November 14, 2008

P.M. Prater
US Department of Energy
Ameresco Federal Solutions
Savannah River Site
PO Box A
Aiken, SC 29802

Re: Prevention of Significant Deterioration (PSD) Preliminary Determination &
Draft PSD Construction Permit No.0080-0144-CA
Ameresco Biomass Cogeneration Facility

Dear Mr. Prater:

The South Carolina Department of Health and Environmental Control (DHEC), Bureau of Air Quality, has completed review of the PSD construction permit application submitted by Ameresco Federal Solutions (Ameresco) under contract with the Department of Energy to construct and operate a new biomass-fired cogeneration plant located on Burma Road in Aiken, South Carolina. A Preliminary Determination, Draft PSD Construction Permit No. 0080-0144-CA was previously written by the Bureau for this proposed project and placed on public notice for a thirty (30) day comment period on October 7, 2008 under Public Notice #08-092-PSD-N. The public comment period for this notice closed on November 5, 2008. No adverse comments were received by the Department during the public comment period and no changes were made to the draft permit. Therefore, the Department's permit decision is to approve PSD Construction Permit No. 0080-0144-CA for issuance on Friday, November 14, 2008.

Please find enclosed the Department's Final Determination and PSD Construction Permit No. 0080-0144-CA. The South Carolina General Assembly has amended the appeal process for DHEC decisions in 2006 Act No. 387, which became effective on July 1, 2006. The enclosed Notice of Appeal Procedure outlines this new process. Should you have any questions concerning the new appeal procedures, please contact DHEC's Office of General Counsel at (803) 898-3350.

Should you have any questions concerning the enclosed Final Determination or EPA's review procedures and requirements, please contact the appropriate staff member, Fatina Ann Washburn Clark, of this office, at (803) 898-4072, or by e-mail at: clarkfaw@dhec.sc.gov.

Sincerely,

Karen Lee
Public Information Specialist
Engineering Services Division
Bureau of Air Quality

Enclosures

cc: James Purvis, EPA (Via E-mail)
Travis Fuss, Region 5 Aiken EQC Office
BAQ Public Notice File No. 0080-0144-CA

South Carolina

Department of Health and Environmental Control

Bureau of Air Quality

Final Determination

for

Ameresco Biomass Cogeneration Facility
Aiken County, South Carolina

November 14, 2008

Final Determination

Ameresco Biomass Cogeneration Facility
Aiken County, South Carolina

This review was performed by the Bureau of Air Quality of the South Carolina Department of Health and Environmental Control in accordance with South Carolina Regulations for the Prevention of Significant Air Quality Deterioration.

November 14, 2008

Reviewed by:

Fatina Ann Washburn Clark,
Environmental Engineer Associate
Bureau of Air Quality

Approved by:

Elizabeth J. Basil, Director
Engineering Services Division
Bureau of Air Quality

Table of Contents

Ameresco Biomass Cogeneration Facility
Aiken County, South Carolina

Time Line (Permitting Action History)

November 16, 2007	Ameresco Federal Solutions, along with Trinity Consultants, the Department of Energy-Savannah River Field Office, and Washington Savannah River Company (WSRC) met with the South Carolina Department of Health and Environmental Control (DHEC) personnel to discuss an upcoming Prevention of Significant Deterioration (PSD) construction permit application.
February 14, 2008	Trinity Consultants, on behalf of Ameresco Federal Solutions, submitted a Prevention of Significant Deterioration (PSD) construction permit application to the South Carolina DHEC, Bureau of Air Quality (BAQ), proposing to add five (5) coal-fired boilers at the Savannah River Site located near Aiken, South Carolina. This application did not include all associated modeling analyses.
February 27, 2008	Trinity Consultants, on behalf of Ameresco Federal Solutions, submitted to South Carolina DHEC, a Modeling Protocol for the proposed Ameresco Biomass Cogeneration Facility.
February 27, 2008	Trinity Consultants and BAQ held a conference call to discuss permitting and modeling aspects/deficiencies of the application.
March 6, 2008	Trinity Consultants, on behalf of Ameresco Federal Solutions, submitted an Air Quality Modeling Report to the South Carolina DHEC.
March 12, 2008	DHEC deemed the application incomplete by letter to Ameresco Federal Solutions outlining the additional requested information to be submitted to DHEC. Current status was also conveyed to the United States Environmental Protection Agency (EPA) Region 4 and Federal Land Manager along with the submittal of the incomplete application and modeling report from Ameresco Federal Solutions.
March 19, 2008	Trinity Consultants, on behalf of Ameresco Federal Solutions, submitted a formal response to the initial seventeen (17) deficiencies discussed in the February 27, 2008 conference call. Outstanding items include a process schematic diagram, a description of the fluidized bed technology, a list of fuels to be burned, uncontrolled emission rates, a BACT/LAER determination for Standard 5.1, and vendor information to evaluate alternative limits for Standard 5.2.
March 26, 2008	Trinity Consultants, on behalf of Ameresco Federal Solutions, provided uncontrolled emission rates for the process.

	Trinity Consultants, on behalf of Ameresco Federal Solutions, submitted an Air Quality Modeling Report to the South Carolina DHEC.
March 31, 2008	Ameresco Federal solutions provided remaining deficiency items from March 12, 2008 request except for the BACT/LAER Evaluation per SC Regulation 61-62.5, Standard 5.1.
April 7, 2008	SC DHEC requested via email that Ameresco Federal Solutions revise their modeling demonstration in order to demonstrate compliance with Standards 2 and 7 by including all applicable buildings on the property.
April 8, 2008	Washington Savannah River Company (WSRC) provided a completed BACT/LAER Evaluation per SC Regulation 61-62.5, Standard 5.1.
April 23, 2008	Trinity Consultants, on behalf of Ameresco Federal Solutions, submitted electronically a revised Air Quality Model to the South Carolina DHEC per the electronic request dated April 7, 2008.
May 7, 2008	DHEC issued a letter to Ameresco Federal Solutions (with copies to EPA, FLM and DHEC Region) indicating that the PSD permit application for Ameresco Biomass Cogeneration Facility was being deemed complete as of May 1, 2008. Copies of the remaining information were submitted to the United States Environmental Protection Agency (EPA) Region 4 and Federal Land Manager.
May 27, 2008	Trinity Consultants, on behalf of Ameresco Federal Solutions, submitted electronically a revised Air Quality Model to the South Carolina DHEC adjusting the stack height of the two (2) large biomass boilers from 150 feet to 100 feet.
May 30, 2008	Trinity Consultants, on behalf of Ameresco Federal Solutions, submitted electronically a revised application to the South Carolina DHEC removing the auxiliary boiler from the permit application.
June 6, 2008	DHEC submitted copies of the revised application to the United States Environmental Protection Agency (EPA) Region 4 and Federal Land Manager.
July 2, 2008	EPA Region 4 verbally submitted initial comments and questions regarding the Ameresco Biomass Cogeneration Facility PSD application.
July 18, 2008	Ameresco Federal Solutions and Trinity Consultants held a conference call with DHEC and EPA Region 4 to discuss the application and verbal comments received from EPA Region 4. Ameresco and Trinity will be required to revise the Top Down BACT Analysis, include facility wide contemporaneous increases and decreases in the netting analysis, provide

	revised emission calculations and submit a request for Synthetic Minor Limitations for Hazardous Air Pollutants.
July 24, 2008	Trinity Consultants, on behalf of Ameresco Federal Solutions, provided a completely revised application to address the issues discussed on July 18, 2008. The netting analysis was not included in the submittal.
July 30, 2008	DHEC submitted copies of the revised application to the United States Environmental Protection Agency (EPA) Region 4 and Federal Land Manager.
August 15, 2008	Trinity Consultants, on behalf of Ameresco Federal Solutions, provided a netting analysis for the project.
August 22, 2008	Trinity Consultants, on behalf of Ameresco Federal Solutions, provided a revised netting analysis for the project.
August 26, 2008	DHEC submitted copies of the revised netting analysis to the United States Environmental Protection Agency (EPA) Region 4 and Federal Land Manager.
September 18, 2008	Ameresco provided a revised vendor proposal regarding vendor guarantees on emissions for the large boilers. Pricing information was included and was considered confidential. A redacted version was requested by DHEC.
September 23, 2008	Ameresco provided a redacted vendor proposal regarding vendor guarantees on emissions for the large boilers.
September 25, 2008	Ameresco provided additional information regarding the derivation of the emission guarantees from the vendor.
October 7, 2008	DHEC placed the PSD Preliminary Determination and Draft PSD Construction Permit No. 0080-0144-CA on public notice for a 30-day comment period by publication in the *Aiken Standard* newspapers. A public hearing was not scheduled at this time to receive oral and written comments on the proposed plant and draft permit. All appropriate Federal and State Officials were notified.
November 14, 2008	The BAQ issued a Final Determination and Construction Permit No. 0080-0144-CA for Ameresco Biomass Cogeneration Facility.

Introduction

On February 14, 2008, Ameresco Federal Solutions submitted a Prevention of Significant Deterioration (PSD) construction permit application to the South Carolina Department of Health and Environmental Control (DHEC), Bureau of Air Quality (BAQ), to construct two (2) new biomass boilers, each rated at a maximum heat input rate of 210 million British thermal units per hour (BTU/hr), one (1) new oil fired auxiliary boiler rated at a maximum heat input rate of 150 million BTU/hr, two (2) new biomass boilers, each rated at a maximum heat input rate of 14.9 million BTU/hr and other supporting equipment to be located at the Savannah River Site near Aiken, and having an address of Burma Road, Aiken, South Carolina. The two (2) large 210 million BTU/hr boilers will also be capable of firing up to 30% tire derived fuel (as percent of total solid fuel weight by weight) as fuel, and burning No. 2 fuel oil (maximum sulfur content = 0.05%) during periods of startup, flame stabilization and back-up. These large boilers will be equipped with Low Nitrogen Oxides (NO_x) Burners and Selective NonCatalytic Reduction (SNCR) Controls for controlling NO_x emissions. The large boilers will also add limestone to the bed material which will be used for controlling Sulfur Dioxide (SO_2) and sulfuric acid (H_2SO_4) emissions, and Baghouses for controlling Particulate Matter (PM) emissions. The auxiliary boiler does not have a control device. The two (2) small biomass boilers have multiclones as voluntary control devices. Other equipment included in this project consists of a chipped wood handling system (truck unloading station, storage piles, conveyors, screeners, electric powered hogger, storage silos and a dust collector), a tire handling system (truck unloading station, and conveyors), an ash handling system including a fly ash silo (one for both large boiler), two (2) emergency generators, several storage tanks (fuel oil, urea, and other chemicals), cooling towers, boiler feedwater system, chemical feed system, and a water treatment system.

The application submitted by Ameresco included a Best Available Control Technology (BACT) analysis indicating that CO was subject to PSD review. Additional information was requested on March 12, 2008 in order to process the application and was received on March 19, 2008, March 26, 2008, March 31, 2008, and April 8, 2008, and April 23, 2008. The application was deemed complete as of May 1, 2008. On May 30, 2008, Ameresco Federal Solutions withdrew the auxiliary boiler from the application. Discussions occurred between EPA, SC DHEC and Ameresco Federal Solutions concerning the reduction of Hazardous Air Pollutants (HAPs) from the project and a design change employing dry injection technology using hydrated lime will be used instead of the originally proposed limestone addition system to control SO_2, H_2SO_4 and Hydrochloric Acid (HCl) emissions. This design change will result in the addition of a hydrated lime silo to the project. This application is being processed as a PSD application subject to BACT review, and there is a request for 112g avoidance (synthetic minor limitations) for HAPs. The project has requested to be limited to less than 10 tons per year of a single HAP and to less than 25 tons per year of total HAPs.

The Savannah River Site (SRS) has previously been deemed a major source as defined by SC DHEC Regulation 61-62.5, Standard No. 7 "Prevention of Significant Deterioration (PSD)," based on potential emissions from the facility exceeding the 250 tpy level for a non listed PSD category. The Ameresco Biomass Cogeneration facility is co-located with the SRS, however the biomass boiler project is a listed PSD category (fossil fuel boilers totaling more than 250 million British thermal units per hour heat input), therefore this project, the Ameresco Biomass Cogeneration facility is deemed a major source as defined by SC DHEC Regulation 61-62.5, Standard No. 7 "Prevention of Significant Deterioration (PSD)," based on potential emissions from the requested

processes exceeding the 100 tpy level for a listed PSD category for several pollutants. Pollutants that exceed the significant increase level as defined in Standard No. 7 are also subject to PSD review. Pollutants subject to PSD review include Carbon Monoxide (CO). A PSD review includes a Best Available Control Technology (BACT) Determination, an Ambient Air Impact Analysis, and a Class I Area Impact Analysis.

In addition to the PSD requirements, this project must comply with the New Source Performance Standards (NSPS), Subpart A "General Provisions," Subpart Db "Standards Of Performance For Industrial-Commercial-Institutional Steam Generating Units" for the two large 210 million BTU/hr biomass boilers, and Subpart Dc "Standards Of Performance For Small Industrial-Commercial-Institutional Steam Generating Units" for the two small 14.9 million BTU/hr biomass boilers, and Subpart IIIII "Standards Of Performance For Stationary Compression Ignition Internal Combustion Engines" for the emergency generators. The project must also comply with National Emission Standards For Hazardous Air Pollutants For Source Categories, Subpart A "General Provisions," and Subpart ZZZZ "National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines." The project will be subject to Compliance Assurance Monitoring regulations under 40 CFR Part 64. Certain State Regulations also apply to the proposed project, including SC DHEC Regulation 61-62.5, Standard No. 1 "Emissions from Fuel Burning Operations," Standard No. 2 "Ambient Air Quality Standards," Standard No. 3 "Waste Combustion and Reduction," Standard No. 4 "Emissions from Process Industries," Standard No. 5.2 "Control of Oxides of Nitrogen (NO_x)," Standard No. 7 "Prevention of Significant Deterioration," and Standard 8 "Toxic Air Pollutants." In addition, fugitive emissions will be subject to SC DHEC Regulation 61-62.6 "Control of Fugitive Particulate Matter" and the boilers will be subject to SC DHEC Regulation 61-62.63, "National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories."

Significant Emission Rates

Potential controlled emissions of pollutants subject to PSD review for the project are shown in Table 1, showing the pollutants that have PSD significance levels and are subject to PSD review.

Table 1 – PSD Applicability Summary – Ameresco Biomass Cogeneration Facility										
Source Description	**Unit ID**	**CO (tpy)**	**NOx (tpy)**	**TSP (tpy)**	**PM-10 (tpy)**	**SO2 (tpy)**	**VOC (tpy)**	**Pb (tpy)**	**F (tpy)**	**H_2SO_4 mist (tpy)**
Biomass Cogeneration Boiler 1	210-211-100-001	119.57	137.97	21.41	18.67	180.94	15.64	6.74E-02		2.27
Biomass Cogeneration Boiler 2	210-211-100-002	119.57	137.97	21.41	18.67	180.94	15.64	6.74E-02		2.27
K Area Biomass Fired Boiler	210-213-100-001	7.24	5.36	5.36	5.36	0.67	0.46	1.29E-03		0.00
L Area Biomass Fired Boiler	210-213-100-002	7.24	5.36	5.36	5.36	0.67	0.46	1.29E-03		0.00
Flyash Silo	460-461-200-001			0.38	0.38					
Hydrated Lime (or Equivalent) Silo	HLS-1			0.58	0.58					
Cooling Tower	820-821-100-001			6.75	6.75					
Standby Generator 1	SG-1	0.58	1.06	0.03	0.00	0.01	0.03			
Standby Generator 2	SG-2	0.58	1.06	0.03	0.00	0.01	0.03			
Biomass Feedstock Unloading	BFS-1			0.01	0.01					
Biomass Reclaim Pile Drop	BFS-2			0.01	0.01					
Biomass Storage Pile	SP-1						7.46			
Cogeneration Facility Fuel Oil Tank	DT-1						0.04			
K-Area Fuel Oil Tank	520-523-100-001						0.00			
L-Area Fuel Oil Tank	520-523-100-002						0.00			
	Total Project Emission Increases	**254.79**	**288.78**	**61.35**	**55.79**	**363.23**	**39.75**	**1.37E-01**	**0.00**	**4.53**
Retiring Equipment Contemporaneous Changes	A Area Boiler 1	-24.46	-30.57	-31.82	-22.19	-154.88	N/A	N/A	N/A	N/A
	A Area Boiler 2	-24.01	-30.01	-29.42	-20.63	-152.04	N/A	N/A	N/A	N/A
	D Area Boiler 1	-11.71	-720.06	-123.66	-100.42	-1,167.24	N/A	N/A	N/A	N/A
	D Area Boiler 2	-10.05	-620.90	-90.21	-78.75	-1,005.38	N/A	N/A	N/A	N/A
	D Area Boiler 3	-9.44	-580.18	-102.34	-86.89	-985.88	N/A	N/A	N/A	N/A
	D Area Boiler 4	-12.06	-737.44	-119.65	-102.56	-1,196.93	N/A	N/A	N/A	N/A
	K Area Boiler 1	-0.24	-0.97	-0.10	-0.05	-3.42	N/A	N/A	N/A	N/A
	K Area Boiler 2	-0.68	-2.71	-0.27	-0.14	-9.62	N/A	N/A	N/A	N/A
	221-S Vitrification Proc	N/A	-0.065	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	725-1N Abrasive Blasting	N/A	N/A	-0.005	0.00	N/A	N/A	N/A	N/A	N/A
Increase from New Equipment	FO and Biomass Boiler (CP-a-CG)	99.90	39.90	24.90	14.90	39.90	N/A	N/A	N/A	N/A
	Emissions Change	**262.04**	**-2,394.21**	**-411.22**	**-340.94**	**-4,272.25**	**39.75**	**0.14**	**0.00**	**4.53**
	PSD Significant Emission Rates	**100**	**40**	**25**	**15**	**40**	**40**	**0.6**	**3**	7
	PSD Review Required	**Yes**	**No**	**No**	**No**	**No**	**No**	**No**	**No**	**No**

Final Determination

On October 7, 2008, the BAQ made a preliminary determination that the boilers and associated equipment may be constructed if the emission limitations and conditions outlined in Draft PSD/NSPS/NESHAP Construction Permit No. 0080-0144-CA are met. This draft permit was included as Appendix D of the Preliminary Determination. The Statement of Basis that contains explanations of the permitting actions was included as Appendix E of the Preliminary Determination. The Public comment period closed on November 7, 2008. No comments were received from the United States Environmental Protection Agency (EPA), the Federal Land Manager (FLM), members of the public, or Ameresco Federal Solutions during the public comment period.

On November 14, 2008, the BAQ made a final determination that the Ameresco Biomass Cogeneration Facility proposed project may be approved provided the emission limitations and conditions outlined in Construction Permit No. 0080-0144-CA are met. The Appendix A of this Final Determination contains a copy of the final issued permit.

Comments and Responses

There were no comments received during the public comment period.

Appendix A

Issued Construction Permit 0080-0144-CA

D H E C
PROMOTE PROTECT PROSPER
C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment

November 14, 2008

US Department of Energy
Ameresco Federal Solutions
Savannah River Site
P.O. Box A
Aiken SC 29802

ATTENTION: Mr. P.M. Prater

Dear Mr. Prater:

Enclosed is Construction Permit No. 0080-0144-CA. Please note the conditions on this permit by reading it carefully. Pursuant to the South Carolina Administrative Procedures Act, this permit decision may be appealed in accordance with applicable state law. Please see the enclosed Notice of Appeal Procedure, effective July 01, 2006, for guidelines on appeal submittals.

In addition to this permit to construct, a permit to operate is required in accordance with the Air Pollution Control Regulations and Standards for the State of South Carolina. The regulations require a written request for a new or revised operating permit to cover any new, or altered source, postmarked no later than fifteen (15) days after the actual date of initial startup of each new or altered source unless a more stringent time frame is required.

Please examine this new permit carefully for errors or omissions and notify the appropriate staff member, Fatina Ann Washburn Clark, (803-898-4072) or e-mail at clarkfaw@dhec.sc.gov promptly if any are discovered.

Sincerely,

Elizabeth J. Basl, Director
Engineering Services Division
Bureau of Air Quality

EJB:FAWC:kal

Enclosures

cc: Travis Fuss, Region 5, Aiken EQC Office
Joe Sullivan, Trinity Consultants
Nichole Bulgarino, Ameresco Federal Solutions
Permit File: 0080-0144
Main File: 0080-0144

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

OFFICE OF ENVIRONMENTAL QUALITY CONTROL
BUREAU OF AIR QUALITY
PSD, SYNTHETIC MINOR, NSPS (40CFR60) AND NESHAP (40CFR63)
CONSTRUCTION PERMIT

US Department of Energy
Ameresco Federal Solutions
Savannah River Site
Burma Road
Aiken, SC 29808

Permission is hereby granted to install two (2) bubbling fluidized bed boilers, burning biomass, defined as clean wood per SC Regulation 61-62.1, Section I, and tire derived fuel (up to 30% by weight) in either boiler. The new boilers are each rated at 210 million Btu/hr maximum heat input capacity with an output of 19.4 MW each. The boilers can also fire low sulfur fuel oil containing 0.05% sulfur or less to a maximum rate of 200 million Btu/hr. Each boiler (BCB-01 and BCB-02) will supply steam to a single steam turbine/generator set. These boilers will be equipped with Low NO_X burners (LNBs), Selective NonCatalytic Reduction systems (SNCRs), Hydrated Lime Addition systems, and Fabric Filters for control of NO_X, SO_2/HCl and PM/PM_{10} emissions, respectively. These boilers will be subject to 40CFR60, Subparts A and Db. Boilers BCB-01 and BCB-02 will be identified as emission units ID01 and ID02, respectively.

A fuel handling yard consisting of a 10 acre woodpile, truck dumpers, conveyors, screeners, electric powered hogger, storage piles and storage silos will be installed. Tire derived fuel will be delivered by truck and stored separately from biomass for subsequent blending with biomass. The fuel handling yard will be identified as emission units ID03 (Raw Material Unloading/Truck Dump) and ID04 (Conveyor Drop/Reclaim Pile).

An ash handling system for each boiler will also be installed. Fly ash will be collected and loaded out through one fly ash silo. The flyash handling system will be identified as emission units ID05.

Two emergency generators (SG-1 and SG-2) rated at 1,500 KW each fired on low sulfur fuel oil will be provided for emergency power. These units are exempt from construction permit requirements but the emergency generators will be subject to 40CFR60, Subparts A and IIII as well as 40 CFR 63, Subparts A and ZZZZ.

A cooling tower system will also be installed and will have a nominal circulation rate of 30,800 gallons per minute. The cooling tower system will be identified as emission unit ID06.

PERMIT NUMBER: 0080-0144-CA
DATE OF ISSUE: November 14, 2008
FACILITY SIC/NAICS CODES: 4961/221330

I. STANDARD CONDITIONS

A. This permit expressly incorporates all the provisions of *South Carolina Department of Health and Environmental Control Regulation 61-62.1*, Section II, Paragraph J and the *Code of Federal Regulations*, Title 40, Parts 60 (Subpart A) and 63 (Subpart A).

II. SPECIAL CONDITIONS

A. EMISSION LIMITATIONS

Air pollutant emissions shall not exceed the following:

ID	Equip ID	Pollutant/ Standard	Limit	Reference Method	Regulation	State Only
01 02 07 08	BCB-1 BCB-2 KBB-1 LBB-1	Opacity	20%, each	9	SC Regulation 61-62.5, Standard 1	No
01 02 07 08	BCB-1 BCB-2 KBB-1 LBB-1	PM	0.6 lb/million BTU, each	As Approved by BAQ	SC Regulation 61-62.5, Standard 1	No
01 02 07 08	BCB-1 BCB-2 KBB-1 LBB-1	SO_2	3.5 lb/million BTU, each	As Approved by BAQ	SC Regulation 61-62.5, Standard 1	No
01 02	BCB-1 BCB-2	Ni	0.006 lb/million BTU, each	As Approved by BAQ	SC Regulation 61-62.5, Standard 3	Yes
01 02	BCB-1 BCB-2	Cd	0.0001 lb/million BTU, each	As Approved by BAQ	SC Regulation 61-62.5, Standard 3	Yes
01 02	BCB-1 BCB-2	Cr	0.00074 lb/million BTU, each	As Approved by BAQ	SC Regulation 61-62.5, Standard 3	Yes
01 02	BCB-1 BCB-2	As	0.0017 lb/million BTU, each	As Approved by BAQ	SC Regulation 61-62.5, Standard 3	Yes
01 02	BCB-1 BCB-2	Pb	0.005 lb/million BTU, each	As Approved by BAQ	SC Regulation 61-62.5, Standard 3	Yes
01 02	BCB-1 BCB-2	HCl	0.45 lb/million BTU, each	As Approved by BAQ	SC Regulation 61-62.5, Standard 3	Yes
03 04 05 06 09	BFS-1 BFS-2 FS-1 CT-1 HLS-1	Opacity	20%, each	9	SC Regulation 61-62.5, Standard 4	No

ID	Equip ID	Pollutant/ Standard	Limit	Reference Method	Regulation	State Only
05	FS-1	PM	3.38 lb/hr	As Approved by BAQ	SC Regulation 61-62.5, Standard 4	No
03 04	BFS-1 BFS-2	PM	59.1 lb/hr, each	As Approved by BAQ	SC Regulation 61-62.5, Standard 4	No
09	HLS-1	PM	1.07 lb/hr	As Approved by BAQ	SC Regulation 61-62.5, Standard 4	No
01 02	BCB-1 BCB-2	NO_x	0.14 lb/million BTU (while burning No.2 fuel oil), each	As Approved by BAQ	SC Regulation 61-62.5, Standard 5.2	No
07 08	KBB-1 LBB-1	NO_x	0.15 lb/million BTU (while burning No.2 fuel oil), each	As Approved by BAQ	SC Regulation 61-62.5, Standard 5.2	No
01 02	BCB-1 BCB-2	NO_x	0.15 lb/million BTU (while burning biomass or biomass and TDF), each	As Approved by BAQ	SC Regulation 61-62.5, Standard 5.2	No
01 02 07 08	BCB-1 BCB-2 KBB-1 LBB-1	NO_x	0.2 lb/million BTU (while burning biomass), each	As Approved by BAQ	SC Regulation 61-62.5, Standard 5.2	No
01 02	BCB-1 BCB-2	NO_x	0.142 lb/million BTU (while burning biomass and No.2 fuel oil),, each	As Approved by BAQ	SC Regulation 61-62.5, Standard 5.2	No
07 08	KBB-1 LBB-1	NO_x	0.152 lb/million BTU (while burning biomass and No.2 fuel oil), each	As Approved by BAQ	SC Regulation 61-62.5, Standard 5.2	No
01 02	BCB-1 BCB-2	CO	0.13 lb/million BTU (while burning biomass or biomass/TDF), each	As Approved by BAQ	SC Regulation 61-62.5, Standard 7	No
07 08	KBB-1 LBB-1	CO	0.3 lb/million BTU (while burning biomass), each	As Approved by BAQ	SC Regulation 61-62.5, Standard 7	No
01 02	BCB-1 BCB-2	CO	0.035 lb/million BTU (while burning No.2 fuel oil), each	As Approved by BAQ	SC Regulation 61-62.5, Standard 7	No
07 08	KBB-1 LBB-1	CO	0.036 lb/million BTU (while burning No.2 fuel oil), each	As Approved by BAQ	SC Regulation 61-62.5, Standard 7	No
01 02 07 08	BCB-1 BCB-2 KBB-1 LBB-1	CO	Comply with Startup and Shutdown Requirements	N/A	SC Regulation 61-62.5, Standard 7	No
01 02	BCB-1 BCB-2	SO_2	0.2 lb/million BTU, each	19	40 CFR 60, Subpart Db	No
01 02	BCB-1 BCB-2	Opacity	20%, each	9	40 CFR 60, Subpart Db	No
01 02	BCB-1 BCB-2	PM	0.1 lb/million BTU, each	5, 5B, or 17	40 CFR 60, Subpart Db	No
01 02	BCB-1 BCB-2	NO_x	0.2 lb/million BTU, each	As Approved by BAQ	40 CFR 60, Subpart Db	No

ID	Equip ID	Pollutant/ Standard	Limit	Reference Method	Regulation	State Only
07 08	KBB-1 LBB-1	SO_2	0.5 lb/million BTU, each Or 0.5 wt% Sulfur	19	40 CFR 60, Subpart Dc	No
01 02	BCB-1 BCB-2	TDF	30% by weight	N/A	SC Reg 61-62.1, Section II(J)(2)	Yes
07 08	KBB-1 LBB-1	Operating Hours	3600 hours, each	N/A	SC Reg 61-62.1, Section II(J)(2)	Yes
Project Wide (01-09)	All	HAPs	Less than 10 TPY single HAP, Less than 25 TPY total HAPs	As approved by BAQ	SC Reg 61-62.1, Section II(G)	No

N/A = Not Applicable

The emission limitations listed for each emission unit are based on operation at permitted capacity. Operation at less than permitted capacity must meet emission limits specified in the applicable regulations based on that operating rate. All test methods must be the most recent revisions that are published in the *Code of Federal Regulations*, in accordance with the requirements of SC Regulation 61-62.1, Section IV, Source Test.

B. CONTINUOUS MONITORING REQUIREMENTS

ID	Equipment ID	Pollutant	Averaging Time
CA	BCB-1 BCB-2	Opacity	6 minutes
CA	BCB-1 BCB-2	SO_2	30 day average
CA	BCB-1 BCB-2	NO_x	30 day average
CA	BCB-1 BCB-2	O_2 or CO_2	30 day average

C. SOURCE TEST SCHEDULE

ID	Equip ID	Pollutant	Frequency	Method
CA	BCB-1 BCB-2	PM	Initial, Biennial	5, 5B or 17
CA	BCB-1 BCB-2	SO_2	Initial	19
CA	BCB-1 BCB-2	Metals	Initial, Biennial	As Approved by BAQ
CA	BCB-1 BCB-2	HCl	Initial, Biennial	As Approved by BAQ
CA	BCB-1 BCB-2	NO_x	Initial	As Approved by BAQ
CA	KBB-1 LBB-1	NO_x	Initial, Every 4 years	As Approved by BAQ

ID	Equip ID	Pollutant	Frequency	Method
CA	BCB-1 BCB-2 KBB-1 LBB-1	CO	Initial	As Approved by BAQ
CA	BCB-1 BCB-2 KBB-1 LBB-1	Total HAPs	Initial	As Approved by BAQ

D. ADDITIONAL CONDITIONS

Condition Number	Conditions
1.	The permittee shall pay fees in accordance with SC Regulation 61-30, SC Environmental Protection Fees.
2.	In accordance with SC Regulation 61-62.1 Section II(J), for all sources not required to have continuous emissions monitors, in the event of any malfunction of air pollution control equipment or system, process upset or other equipment failure which results in discharges of air contaminants lasting for one hour or more and which are greater than those discharges described for normal operation in the permit application shall be reported to the local Environmental Quality Control (EQC) Regional office within twenty-four (24) hours after the beginning of the occurrence. The permittee shall also submit a written report within thirty (30) days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality (BAQ). The report shall contain as a minimum, the following: the identity of the emission unit and associated equipment where excess emissions occurred, the magnitude of excess emissions, the time and duration of excess emissions, the steps taken to remedy the malfunction and to prevent a recurrence, documentation that control equipment and processes were at all times maintained and operated, to the maximum extent practicable, in a manner that was consistent with good practice for minimizing emissions. Such a report shall in no way serve to excuse, otherwise justify, or in any manner affect any potential liability or enforcement action resulting from the occurrence.
3.	Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in the air dispersion modeling may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment A of this permit. Higher emission rates may be administratively incorporated into Attachment A of this permit provided a demonstration using these higher emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded. The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment A, not to exceed the pollutant limitations of this construction permit. Should the facility wish to increase the emission rates listed in Attachment A, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified in this permit condition. This is a State Only enforceable requirement.

Condition Number	Conditions
4.	These conditions shall not supersede any State or Federal requirements such as National Emission Standards for Hazardous Air Pollutants, unless these conditions would impose a more restrictive limit.
5.	This construction permit was reviewed and issued based on the permit application submitted by the owner/operator. The owner/operator shall obtain any Bureau authorization required under South Carolina Regulation 61-62.1, Section II(A) prior to making modifications not covered under this construction permit.
6.	The owner or operator shall submit a written request to the Director of the Engineering Services Division for a new or revised operating permit to cover any new or altered source postmarked no later than 15 days after the actual date of initial startup of each new or altered source. This request shall also serve to meet the requirements as specified in SC Regulation 61-62.70.7.
7.	The owner/operator or professional engineer in charge of the project shall certify that, to the best of his/her knowledge and belief and as a result of periodic observation during construction, the construction under application has been completed in accordance with the specifications agreed upon in the construction permit issued by the Department. If construction is certified as provided above, the permittee may operate the source in compliance with the terms and conditions of the construction permit until the operating permit is issued by the Department. If construction is not built as specified in the permit application and associated construction permit(s), the owner/operator must submit to the Director of the Engineering Services Division a complete description of modifications that are at variance with the documentation of the construction permitting determination prior to commencing operation. Construction variances that would trigger additional requirements that have not been addressed prior to start of operation shall be considered construction without a permit.
8.	Unless elsewhere specified within this permit, all records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request.
9.	Unless elsewhere specified within this permit, all reports required under this permit including all recorded parameters and calculated values shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality, at the address listed below, postmarked no later than thirty (30) calendar days after the end of the reporting period. SC DHEC - BAQ Technical Management Section 2600 Bull Street Columbia, SC 29201
10.	This project is a potential major source for Hazardous Air Pollutant (HAP) emissions as defined by SC Regulation 61-62.70.3(a)(1). The Biomass Cogeneration Facility has agreed to Federally enforceable operating limitations to limit its potential to emit to less than 10 tons single HAP emissions per year and to less that 25 tons total HAP emissions per year..
11.	The owner or operator must keep on site for a period of 5 years, or until the source changes its operations to become an affected source, whichever comes first, a record of the applicability determination indicating the facility is an affected source, but is not subject to regulation under 40 CFR 63, Subparts A – General Provisions and B - Requirements For Control Technology Determinations For Major Sources In Accordance With Clean Air Act Sections, Sections 112(g) And 112(j), because of limitations on the source's potential to emit. The record of the detailed applicability determination, made in accordance with the requirements of Subparts A and B and available guidance materials, must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the owner or operator believes the source is unaffected (e.g., because the source has taken federally enforceable limits to avoid major source status).
12.	(IDs 01-02, 07-08) In accordance with SC Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section II - Particulate Matter Emissions, the allowable discharge of particulate matter resulting from the fuel burning operations is 0.6 pounds per million BTU input.
13.	(IDs 01-02, 07-08) In accordance with SC Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section III - Sulfur Dioxide Emissions, the maximum allowable discharge of sulfur dioxide (SO_2) resulting from the fuel burning operations is 3.5 pounds per million BTU input.

Condition Number	Conditions
14.	(IDs 01-02) The biomass boilers, BCB-1 and BCB-2, must demonstrate simultaneous compliance with requirements A and B and associated record keeping as detailed below: A. In accordance with SC Regulation 61-62.5, Standard No. 1, Section I (B), these source(s) shall not discharge into the ambient air smoke which exceeds opacity of 20%. During times of soot blowing the opacity may be exceeded for a total of 6 minutes in any hour or 24 minutes in any 24-hour period, but shall in no case exceed opacity of 60%. This opacity standard does not apply during startup and shutdown. B. In accordance with 40 CFR 60.43b(f), these source(s) shall not discharge into the ambient air smoke which exceeds an opacity of 20% except for one six-minute period per hour of not more than 27% opacity. This opacity standard does not apply during startup, shutdown, and malfunction. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. In addition the owner/operator shall maintain a log of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown and make these records available to a Department representative upon request.
15.	(IDs 07-08) In accordance with SC Regulation 61-62.5, Standard No. 1, Emissions from Fuel Burning Operations, the biomass boilers, KBB-1 and LBB-1, shall not discharge into the ambient air smoke which exceeds an opacity of 20%. The twenty (20) percent opacity limit may be exceeded for sootblowing, but may not be exceeded for more than six (6) minutes in a one hour period nor be exceeded for more than a total of twenty-four (24) minutes in a twenty-four (24) hour period. Emissions caused by sootblowing shall not exceed sixty (60) percent opacity. The opacity standards set forth above do not apply during startup or shutdown. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. The owner/operator shall maintain a log of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown and make these records available to a Department representative upon request.
16.	(ID01-02) In accordance with SC Regulation 61-62.5, Standard No. 3, Section III(J), each of the boilers is limited to the following emission rates: Nickel 6.0E-03 lb/million BTU Cadmium 1.0E-04 lb/million BTU Chromium 7.4E-04 lb/million BTU Arsenic 1.7E-03 lb/million BTU Lead 5.0E-03 lb/million BTU HCl 0.45 lb/million BTU The total heat input value shall include the Btu from the waste and virgin fuel used for production. Furthermore, the maximum total heat input value to be used in determining the emission limitations shall be limited to the Btu's necessary to maintain production. The Btu from other sources such as afterburners shall not be considered in determining this total heat input value unless those auxiliary burners are fired with waste. In the case where waste is fired in the auxiliary burners located outside of the primary combustion chamber, only the Btu value of the fuel for the auxiliary burner which is from waste shall be added to the total heat input value. Source testing for metals or HCl will not be required at facilities burning waste with no metals or chlorine in the waste. Analysis showing these constituents to be nondetectible by reference method in the waste would be an alternative method for determining compliance with emission limits as allowed by R.61-62.5, Standard 3, Section VIII(A).

Condition Number	Conditions
17.	(IDs 01-02) The biomass cogeneration facility will be allowed to combust tire derived fuel (TDF). In accordance with SC Regulation 61-62.5, Standard 3, Section V: a. Each waste stream (if the waste is deemed to be consistent in composition) or each waste batch/shipment (if the waste is deemed inconsistent in composition) that is to be burned shall be classified hazardous or non-hazardous utilizing the South Carolina Hazardous Waste Management Regulation 61-79.261. This classification decision may be based on generator knowledge of the waste determined from Material Safety Data Sheets (MSDS), waste profiles, or other process information. b. Each waste stream (if the waste is deemed to be consistent in composition) or each waste batch/shipment (if the waste is deemed inconsistent in composition) that is to be burned shall be analyzed for heat value (BTU/gal and/or BTU/lb.), total halogen, percent Nitrogen and percent Sulfur. c. Each waste stream (if the waste is deemed to be consistent in composition) or each waste batch/shipment (if the waste is deemed inconsistent in composition) that is to be burned shall be identified by waste analysis or special knowledge of the waste (MSDS, waste profiles, etc.) for those air toxic compounds identified in Regulation 61-62.5, Standard Number 8 that can reasonably be expected to be in waste stream. d. If a source has an air pollutant emission rate established in a permit other than opacity, particulate matter, NO_x, SO_2, and/or carbon monoxide, each waste stream (if the waste is deemed to be consistent in composition) or each waste batch/shipment (if the waste is deemed inconsistent in composition) that is to be burned shall be analyzed for those pollutants for which the emission rate was established that may reasonably be expected to be in the waste. When a HCl emission rate is set, HCl testing shall be required. Total halogens analysis may be performed as an alternative to HCl testing although this method will yield a high HCl bias. e. Waste may be exempted from all or part of the analyses required above on a case-by-case basis for any of the following reasons at the facility's discretion, unless the Department has a valid reason to require the analyses: 1. Special knowledge of the waste. 2. The waste composition is deemed to be consistent through prior analysis or special knowledge. 3. The waste constitutes less than 0.1% by weight of the daily design capacity throughput. 4. Ambient air modeling for compliance with Regulation 61-62.5 Standards Number 2 and Number 8 indicates that at the maximum waste firing rate and storage volume a particular constituent at its maximum potential concentration will be in compliance with the applicable Standard. 5. The waste is non-hazardous municipal solid or hospital/medical/infectious waste. f. All information used to determine compliance with this Section (i.e. MSDS, waste manifests, waste analyses) must be kept on site for a period of five (5) years and made available to the Department upon request.
18.	(IDs 03-06) In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td>19.</td><td>(IDs 03-05, 09) In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ($E = 4.10P^{0.67}$) and for process weight rates greater than 30 tons per hour ($E = 55.0P^{0.11} - 40$) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, each process's allowable particulate matter emission limit is limited to the amount shown in the table below at its nominal production rating:
<table>
<tr><th>Process</th><th>Emission Limit (lbs/hr)</th><th>Process Weight Rate (tons/hr)</th></tr>
<tr><td>Raw Material Unloading</td><td>59.1</td><td>210.6</td></tr>
<tr><td>Conveyor Drop/Reclaim</td><td>59.1</td><td>210.6</td></tr>
<tr><td>Flyash Handling System</td><td>3.38</td><td>0.75</td></tr>
<tr><td>Hydrated Lime Storage</td><td>1.07</td><td>0.135</td></tr>
</table></td></tr>
<tr><td>20.</td><td>IDs (01-02) In accordance with SC Regulation 61-62.5, Standard No. 5.2 – Control of Oxides of Nitrogen, Section III, the allowable discharge of NO_X resulting from the fuel burning operations is 0.14 lb/10^6 BTU input while burning No. 2 fuel oil.</td></tr>
<tr><td>21.</td><td>IDs (07-08) In accordance with SC Regulation 61-62.5, Standard No. 5.2 – Control of Oxides of Nitrogen, Section III, the allowable discharge of NO_X resulting from the fuel burning operations is 0.15 lb/10^6 BTU input while burning No. 2 fuel oil.</td></tr>
<tr><td>22.</td><td>IDs (01-02) In accordance with SC Regulation 61-62.5, Standard No. 5.2 – Control of Oxides of Nitrogen, Section III, the allowable discharge of NO_X resulting from the fuel burning operations is 0.15 lb/10^6 BTU input while burning biomass or biomass/TDF.</td></tr>
<tr><td>23.</td><td>IDs (01-02, 07-08) In accordance with SC Regulation 61-62.5, Standard No. 5.2 – Control of Oxides of Nitrogen, Section III, the allowable discharge of NO_X resulting from the fuel burning operations is 0.2 lb/10^6 BTU input while burning biomass.</td></tr>
<tr><td>24.</td><td>IDs (01-02) In accordance with SC Regulation 61-62.5, Standard No. 5.2 – Control of Oxides of Nitrogen, Section III, the allowable discharge of NO_X resulting from the fuel burning operations is 0.142 lb/10^6 BTU input while burning biomass and No. 2 fuel oil.</td></tr>
<tr><td>25.</td><td>IDs (07-08) In accordance with SC Regulation 61-62.5, Standard No. 5.2 – Control of Oxides of Nitrogen, Section III, the allowable discharge of NO_X resulting from the fuel burning operations is 0.152 lb/10^6 BTU input while burning biomass and No. 2 fuel oil.</td></tr>
<tr><td>26.</td><td>(IDs 01-02, 07-08) In accordance with SC Regulation 61-62.5, Standard No. 5.2 – Control of Oxides of Nitrogen, Section IV, stationary source that emits or has the potential to emit NO_X generated from fuel combustion constructed after 06/25/2004 must perform tune-ups every two years, a tune-up plan must be developed and kept on file, and records of tune-ups must be kept on site for a minimum of 5 years.</td></tr>
<tr><td>27.</td><td>(IDs 01-02, 07-08) These sources are subject to all provisions of SC Regulation 61-62.5, Standard No. 7, "Prevention of Significant Deterioration" for CO.</td></tr>
</table>

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td>28.</td><td>
(IDs 01-02) The Best Available Control Technology (BACT) for Boilers BCB-1 and BCB-2 while burning biomass or biomass/TDF was determined to be the following:
<table>
<tr><th>Pollutant</th><th>Control</th><th>BACT Limit</th></tr>
<tr><td>CO</td><td>Good combustion practices</td><td>0.13 lb/million Btu, each (30-day avg)</td></tr>
</table>
In addition, fuels shall be limited to the use of low sulfur fuel oil containing 0.05% sulfur or less during startup, shutdown, flame stabilization, and backup and use of biomass blended with up to 30% tire derived fuel during normal operation. During startup and shutdown, each boiler shall not exceed the following limits:
<table>
<tr><th>Pollutant</th><th>Control</th><th>BACT Limit</th></tr>
<tr><td>CO</td><td>Good combustion practices</td><td>C * 27.3 lb/hr, each</td></tr>
</table>
where C = duration in hours of individual startup or shutdown periods

The pollution control systems shall be brought into service during startup, consistent with the technical limitations, manufacturers' specifications, and good engineering and maintenance practices. The fabric filter system shall achieve substantial control upon introduction of biomass into the boilers, and optimum performance upon the unit reaching steady load conditions. The SNCR system shall be brought into service upon the unit reaching minimum load levels that correspond to specific flue gas temperatures necessary for operating the SNCR system, as specified by the manufacturer. The startup period shall end once the SNCR system is brought into service. No specific operating procedures will apply during periods of shutdown since emissions are not expected to fluctuate significantly and will essentially cease
</td></tr>
<tr><td>29.</td><td>
(IDs 07-08) The Best Available Control Technology (BACT) for Boilers KBB-1 and LBB-1 while burning biomass was determined to be the following:
<table>
<tr><th>Pollutant</th><th>Control</th><th>BACT Limit</th></tr>
<tr><td>CO</td><td>Good combustion practices</td><td>0.3 lb/million Btu, each (30-day avg)</td></tr>
</table>
In addition, fuels shall be limited to the use of low sulfur fuel oil containing 0.05% sulfur or less during startup, shutdown, flame stabilization, and backup and the use of biomass during normal operation. During startup and shutdown, each boiler shall not exceed the following limits:
<table>
<tr><th>Pollutant</th><th>Control</th><th>BACT Limit</th></tr>
<tr><td>CO</td><td>Good combustion practices</td><td>C * 4.47 lb/hr, each</td></tr>
</table>
where C = duration in hours of individual startup or shutdown periods

The pollution control systems shall be brought into service during startup, consistent with the technical limitations, manufacturers' specifications, and good engineering and maintenance practices. The fabric filter system shall achieve substantial control upon introduction of biomass into the boilers, and optimum performance upon the unit reaching steady load conditions. No specific operating procedures will apply during periods of shutdown since emissions are not expected to fluctuate significantly and will
</td></tr>
</table>

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td>30..</td><td>
(IDs 01-02) The Best Available Control Technology (BACT) for Boilers BCB-1 and BCB-2 while burning No. 2 fuel oil was determined to be the following:
<table>
<tr><th>Pollutant</th><th>Control</th><th>BACT Limit</th></tr>
<tr><td>CO</td><td>Good combustion practices</td><td>0.035 lb/million Btu, each (30-day avg)</td></tr>
</table>
During startup and shutdown, each boiler shall not exceed the following limits:
<table>
<tr><th>Pollutant</th><th>Control</th><th>BACT Limit</th></tr>
<tr><td>CO</td><td>Good combustion practices</td><td>C * 7.35 lb/hr, each</td></tr>
</table>
where C = duration in hours of individual startup or shutdown periods

The pollution control systems shall be brought into service during startup, consistent with the technical limitations, manufacturers' specifications, and good engineering and maintenance practices. The fabric filter system shall achieve substantial control upon introduction of biomass into the boilers, and optimum performance upon the unit reaching steady load conditions. The SNCR system shall be brought into service upon the unit reaching minimum load levels that correspond to specific flue gas temperatures necessary for operating the SNCR system, as specified by the manufacturer. The startup period shall end once the SNCR system is brought into service. No specific operating procedures will apply during periods of shutdown since emissions are not expected to fluctuate significantly and will essentially cease
</td></tr>
<tr><td>31.</td><td>
(IDs 07-08) The Best Available Control Technology (BACT) for Boilers KBB-1 and LBB-1 while burning No. 2 fuel oil was determined to be the following:
<table>
<tr><th>Pollutant</th><th>Control</th><th>BACT Limit</th></tr>
<tr><td>CO</td><td>Good combustion practices</td><td>0.036 lb/million Btu, each (30-day avg)</td></tr>
</table>
During startup and shutdown, each boiler shall not exceed the following limits:
<table>
<tr><th>Pollutant</th><th>Control</th><th>BACT Limit</th></tr>
<tr><td>CO</td><td>Good combustion practices</td><td>C * 0.54 lb/hr, each</td></tr>
</table>
where C = duration in hours of individual startup or shutdown periods

The pollution control systems shall be brought into service during startup, consistent with the technical limitations, manufacturers' specifications, and good engineering and maintenance practices. The fabric filter system shall achieve substantial control upon introduction of biomass into the boilers, and optimum performance upon the unit reaching steady load conditions. No specific operating procedures will apply during periods of shutdown since emissions are not expected to fluctuate significantly and will
</td></tr>
</table>

Condition Number	Conditions
32.	(IDs 01-02, 07-08) The owner/operator shall establish a startup/shutdown/malfunction plan including but not limited to, specifying the expected duration of normal startups and shutdowns, the expected intervals of time (or load) for which control devices are not expected to be on line (per manufacturer or other requirements), and operational conditions that are expected to be followed that minimize emissions. Also, included in this plan the owner/operator shall establish how operation of the boilers at low utilization will be minimized. This plan shall be submitted for approval to the Bureau's Engineering Services Division prior to operation of the boilers. This plan shall be reviewed and updated on a minimum of an annual frequency and any changes shall be submitted to the Engineering Services Division within 30 days of the operating permit effective date anniversary. If there are no changes, the submittal shall indicate such. Failure of the owner/operator to comply with the plan will represent a violation. Mass emissions of pollutants as described in Conditions 27-30 occurring during the startup/shutdown periods shall not exceed the specified limits. The owner/operator shall record emissions during startups, shutdowns, and malfunctions and shall report quarterly any instances for which actual emissions exceed the above specified rates, any instances for which any startup or shutdown exceeds the expected time (or load) parameters, and any instances where control devices are not operational as expected during startup and shutdown. This report shall also include explanations where such instances occur. If no instances occur during the reporting quarter, then the report shall indicate such.
33.	(IDs 01-02) New Source Performance Standard (NSPS 40 CFR 60), Subpart A, General Conditions and Subpart Db, Standards Of Performance For Industrial-Commercial-Institutional Steam Generating Units, applies to Boilers BCB-1 and BCB-2. The permittee shall comply with all applicable parts of Subparts A and Db.
34.	(IDs 01-02) In accordance with 40CFR60.42b(k)(1), on and after the date on which the performance test required to be conducted under 40CFR60.8 is completed, no owner or operator subject to the provisions of 40CFR60 Subpart Db shall cause to be discharged into the atmosphere from any affected facility any gases that contain sulfur dioxide in excess of 0.2 lb/million BTU heat input on a 30-day rolling average basis.
35.	(IDs 01-02) In accordance with 40CFR60.43b(h)(3), on and after the date on which the performance test required to be conducted under 40CFR60.8 is completed, no owner or operator subject to the provisions of 40CFR60 Subpart Db shall cause to be discharged into the atmosphere from any affected facility any gases that contain particulate matter in excess 0.10 lb/ million BTU heat input.
36.	(IDs 01-02) In accordance with 40CFR60.44b(l)(1) On and after the date on which the performance test required to be conducted under 40CFR60.8 is completed, no owner or operator subject to the provisions of 40CFR60 Subpart Db shall cause to be discharged into the atmosphere from any affected facility, any gases that contain nitrogen oxides (expressed as NO_2) in excess of 0.2 lb/million BTU on a 30-day rolling average basis.
37.	(IDs 07-08) New Source Performance Standard (NSPS 40 CFR 60), Subpart A, General Conditions and Subpart Dc, Small Industrial - Commercial - Institutional Steam Generating Units, for which Construction, Reconstruction or Modification Commenced after June 9, 1989, applies to Boilers KBB-1 and LBB-1. The permittee shall comply with all applicable parts of Subparts A and Dc.
38.	(IDs 07-08) In accordance with 40CFR60.42c(d) On and after the date on which the performance test required to be conducted under 40CFR60.8 is completed, no owner or operator subject to the provisions of 40CFR60 Subpart Dc shall cause to be discharged into the atmosphere from any affected facility any gases that contain sulfur dioxide in excess 0.5 lb/million BTU heat input on a 30-day rolling average basis or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur..

Condition Number	Conditions
39.	(IDs 01-02) This source is limited to a maximum of 30% by weight of TDF combusted, hourly average at loads greater than or equal the lowest source tested capacity. The TDF bin must be configured to allow no more than 30% by weight onto the conveyor(s) and the owner/operator must maintain TDF bin rotor calibration data on site. This system will be set up with an interlock on the TDF bin rotor rpm. Any exceedences of the weight percentage limit shall be recorded along with corrective action taken and reason for excursion. The owner/operator must record TDF usage daily and calculate annual TDF usage on a twelve month rolling sum. Calculations shall be performed at least once per calendar month to show that the tire derived fuel is being burned at equal to or less than 30% by weight and that loads to the boiler are equal to or greater than the lowest source tested capacity. These records will be maintained on site for a period of at least five (5) years from the date generated. These records shall be made available to Department personnel upon request. Quarterly reports including TDF usage and 12-month rolling sum and any variances from the established parameters and appropriate corrective action taken shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality postmarked no later than 30 calendar days after the end of the reporting period. If no excursions have happened in the quarter than this should be stated in the report.
40.	(IDs 07-08) The boilers KBB-1 and LB-1 are limited to operating a maximum of 3600 hours per year on a 12 month rolling sum. The owner/operator must record the actual operating hours daily. Reports of the recorded hours of operation shall be submitted quarterly.
41.	(IDs 01-02) These sources shall be exempted from 40 CFR 64, Compliance Assurance Monitoring, for SO_2 and NO_X if the owner/operator requests the CEMS for these pollutants be designated as continuous compliance demonstration monitoring (CCDM). If CCDM status is not requested or granted, the owner/operator shall submit CAM plans for these pollutants within 180 days of startup of these new sources.
42.	(IDs 01-02) These sources are subject to 40 CFR 64, Compliance Assurance Monitoring (CAM) and shall comply with all applicable provisions. To meet the requirements of 40 CFR 64 for Emission Unit No. 01 (BCB-1) and Unit No. 02 (BCB-2), the indicator for PM shall be determined prior to CAM applicability. The owner/operator shall install and maintain a PM indicator measuring instrument at an appropriate location as the measurement approach. The indicator type shall be used to provide assurance of compliance with applicable requirement that has subjected the facility to CAM. The operational ranges for the PM indicator, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of the Title V permit renewal. At that time an excursion for monitoring parameters shall also be defined. These operational ranges for the monitored parameters shall be derived from data which demonstrate a reasonable assurance of compliance. Process and capture system operational parameters shall be monitored during the stack tests and operational ranges or inspection and maintenance activities shall be developed for these parameters to reflect proper operation and maintenance of the control device and capture system. Testing must be conducted in accordance with SC Regulation 61-62.1, Section IV, Source Tests. The owner or operator shall coordinate with the Source Evaluation Section of this Bureau, and the test must be performed according to a protocol approved by this Department. The Bureau shall be notified not less than two (2) weeks before the initiation of the test and the final test report must be submitted no later than 30 days after completion of on-site testing. The operational range, exceedance and excursion information shall be incorporated into the cogeneration facility's Part 70 (Title V) Operating Permit once all appropriate testing has been completed and the test results have been approved by the Bureau. Such incorporation will represent a minor modification to the permit. The owner/operator shall provide all relevant information for this modification, including a listing of the exact changes needed to the existing Title V permit as required by Part 70 regulations. The owner/operator shall update their CAM plan with this information as appropriate.

Condition Number	Conditions
43.	(IDs 01-02, 07-08) The boilers are subject to the provisions of SC Regulation 61-62.63, National Emission Standards for Hazardous Air Pollutants **(NESHAP) For Source Categories**, Subparts A (General Provisions) and DDDDD (Industrial, Commercial, and Institutional Boilers and Process Heaters). The owner/operator shall comply with all applicable parts of Subparts A and DDDDD upon start up.
44.	(IDs 01-02) In accordance with 40 CFR 60.48b, the owner or operator of the Biomass Boiler (BCB-1 and BCB-2) shall install, calibrate, maintain, and operate a COMS for measuring the opacity of the emissions discharged to the atmosphere from the Biomass Boiler and record the output of the system.
45.	(IDs 01-02) In accordance with 40 CFR 60.47b, the owner or operator of the Biomass Boilers (BCB-1 and BCB-2) shall install, calibrate, maintain, and operate a CEMS for measuring SO_2 concentrations and either O_2 or CO_2 concentrations discharged to the atmosphere from the Biomass Boilers and record the output of the system.
46.	(IDs 01-02) In accordance with 40 CFR 60.48b, the owner or operator of the Biomass Boiler (BCB-1 and BCB-2) shall install, calibrate, maintain, and operate a CEMS for measuring NO_x and O_2 (or CO_2) emissions discharged to the atmosphere from the Biomass Boiler and record the output of the system.
47.	(IDs 01-02) The owner/operator shall maintain on file all measurements including continuous monitoring system or monitoring device performance measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required in a permanent form suitable for inspection by Department personnel.
48.	(IDs 01-02)In accordance with 40 CFR 60, Subpart Db, within 60 calendar days after achieving the maximum production rate at which this biomass cogeneration facility will be operated, but no later than 180 calendar days after its initial startup and at such other times as may be required by the Department under section 114 of the Clean Air Act, the owner or operator shall conduct performance tests. Performance tests shall be conducted on IDs 01-02 to show compliance with the PM, NO_x and SO_2 standards. Compliance with the PM, NO_x and SO_2 standards shall be determined by conducting performance tests in accordance with 40 CFR 60 Appendix A. All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to SC Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.
49.	(IDs 07-08) The initial performance test, as required in 40 CFR 60.8, shall consist of sampling and analyzing the oil in the initial tank of oil to be fired in the boiler to demonstrate that the oil contains 0.5 percent by weight sulfur or less. Compliance with the fuel sulfur limit shall be determined based on certification from the fuel supplier as specified in 40 CFR 60.48c(f). Records of these certifications shall be kept on site. Reports shall be submitted every six-month period. The reports shall consist of the fuel certification records and a signed statement from the owner/operator that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.
50.	(IDs 01-02) In accordance with SC Regulation 61-62.5, Standard 1, source tests for PM emissions shall be conducted initially within 180 days after startup and every 2 year(s) thereafter. All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to SC Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.

Condition Number	Conditions
51.	(IDs 01-02) In accordance with SC Regulation 61-62.5, Standard 3, source tests for PM, Metals and HCl emissions shall be conducted initially within 180 days after startup and every 2 year(s) thereafter. All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to SC Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.
52.	IDs (01-02) In accordance with SC Regulation 61-62.5, Standard 5.2, Section III(b), an initial source test for NOx emissions shall be conducted within 180 days after startup. All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to SC Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.
53.	IDs (07-08) In accordance with SC Regulation 61-62.1, Section II(J)(2), an initial source test for NOx emissions shall be conducted within 180 days after startup and every 4 year(s) thereafter. All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to SC Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.
54.	IDs (01-02, 07-08) In accordance with SC Regulation 61-62.1, Section II(J)(2), an initial source test for total HAP emissions shall be conducted within 180 days after startup. All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to SC Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.
55.	IDs (01-02, 07-08) In accordance with SC Regulation 61-62.5, Standard 7, an initial source test for Carbon monoxide emissions shall be conducted within 180 days after startup. All test plans, notifications and final reports shall be submitted to the Bureau of Air Quality's Source Evaluation Section according to SC Regulation 61-62.1 Section IV. A protocol shall be submitted to the Source Test Evaluation Section of this Bureau for approval indicating the proposed initial source test date and test procedure at least 45 days prior to the proposed test date. The Bureau must be notified at least two weeks prior to a source test so that a Bureau Representative may be present, and the final test report must be submitted no later than 30 days after completion of on-site testing.

Condition Number	Conditions
56.	(IDs 01-02) In accordance with 40 CFR 60.49b(a), the owner or operator of each affected facility shall submit notification of the date of initial startup, as provided by 40 CFR 60.7. This notification shall include: (1) The design heat input capacity of the affected facility and identification of the fuels to be combusted in the affected facility; (2) The annual capacity factor at which the owner or operator anticipates operating the facility based on all fuels fired and based on each individual fuel fired.
57.	(IDs 01-02) In accordance with 40 CFR 60.49b(b), the owner or operator of each affected facility subject to the SO_2, PM, and/or NO_X emission limits under 40 CFR 60.42b, 60.43b, and 60.44b shall submit the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in 40 CFR 60 Appendix B.
58.	(IDs 01-02) In accordance with 40 CFR 60.49b(d), the owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for distillate oil, wood, and TDF for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.
59.	(IDs 01-02) In accordance with 40 CFR 60.49b(f), the owner or operator of an affected facility subject to the opacity standard under 40 CFR 60.43b, shall maintain records of opacity.
60.	(IDs 01-02) The owner or operator of an affected facility subject to the NO_X standards under 40 CFR 60.44b shall maintain records of the information for each steam generating unit operating day as outlined in 40 CFR 60.49g.
61.	(IDs 01-02) In accordance with 40 CFR 60.7(c), the owner or operator is required to submit excess emission reports to the Bureau of Air Quality for any calendar quarter during which there are excess emissions from a boiler. If there are no excess emissions during the calendar quarter, the owner or operator shall submit a report quarterly stating that excess emissions have not occurred during the reporting period.
62.	IDs (07-08) In accordance with 40 CFR 60.48c(g), the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.
63.	(IDs 01-02) This source is permitted to operate two biomass boilers, each rated at a maximum heat input rate of 210 million Btu/hr. These units are permitted to burn clean wood, as defined in SC Regulation 61-62.1, and tire derived fuel blended up to 30% by composite weight (i.e., 30% tire derived fuel and 70% biomass) as fuel. Low sulfur fuel oil (maximum sulfur content 0.05%) may be used for initial firing of each boiler during startup in addition to periods requiring flame stabilization and a back up fuel source. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality. During operation of these units, all control devices (including fabric filters, Low NO_X Burners, Limestone Addition and SNCR controls) shall be operated consistent with the technological limitations, manufacturer's specifications, and good engineering and maintenance practices for the control devices.
64.	(IDs 07-08) This source is permitted to operate two biomass boilers, each rated at a heat input rate of 14.9 million Btu/hr. These units are permitted to burn clean wood, as defined in SC Regulation 61-62.1, as fuel. Low sulfur fuel oil (maximum sulfur content 0.05%) may be used for initial firing of each boiler during startup in addition to periods requiring flame stabilization and a back up fuel source. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.

Condition Number	Conditions
65.	(IDs 01-02) The owner/operator shall install, operate and maintain pressure drop gauge(s) on each module of the baghouse(s). Pressure drop readings shall be recorded daily during source operation. The baghouse(s) shall be in place and operational whenever processes controlled by the baghouse(s) are running, except during periods of baghouse malfunction or mechanical failure. The following operation and maintenance checks will be made on at least a weekly basis for all baghouses: a) The baghouse cleaning systems will be checked for proper operation. b) Check dust collection hoppers and conveying systems for proper operation.
66.	(IDs 01-09) All gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Monitoring parameter readings (i.e., pressure drop readings, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each incidence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Reports of these incidences shall be submitted semiannually. If no incidences occurred during the reporting period then a letter shall indicate such. Any alternative method for monitoring control device performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.7.
67.	(IDs 03-09) Operational ranges for the monitored parameters shall be established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. These ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up. The operating ranges may be updated using this procedure, following Bureau approval.
68.	(IDs 03-09) The permittee shall perform a visual inspection on a daily basis. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner/operator shall submit semiannual reports.
69.	Fugitive Particulate (PM) emissions from material handling, process equipment, or storage piles will be minimized to the maximum extent possible. Fugitive emissions from dust buildup will be controlled by proper housekeeping and/or wet suppression.

Condition Number	Conditions
70.	The standby generators (SG-1 and SG-2) have been determined to be exempt from construction permitting requirements in accordance with South Carolina Regulation 61-62.1 Section II.B.2.f and as such are listed as exempt sources in this permit. The standby generators SG-1 and SG-2 shall still comply with the requirements of all applicable regulations including but not limited to: (1) New Source Performance Standards (NSPS) 40 CFR 60 Subparts A (General Provisions) and IIII (Stationary Compression Ignition Internal Combustion Engines) (2) National Emission Standards For Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subparts A (General Provisions) and ZZZZ (Stationary Reciprocating Internal Combustion Engines) The standby generators SG-1 and SG-2 have been defined as emergency generators, in accordance with 40 CFR 63 Subpart ZZZZ. Therefore, they do not have to meet the requirements of the subpart or of Subpart A of 40 CFR 63 except for the initial notification requirements of 40 CFR 63.6645(d).
71.	(IDs 01-02) Cadmium, chromium and nickel emissions from biomass boilers BCB-1 and BCB-2 have been exempted from SC Regulation 61-62.5, Standard No. 8 requirements because these sources are in compliance with SC Regulation 61-62.63, Subpart DDDDD -National Emission Standards For Hazardous Air Pollutants For Industrial, Commercial, and Institutional Boilers and Process Heaters. This exemption is based on SC Regulation 61-62.5, Standard No. 8, Section I(D).
72.	If construction does not commence on the PSD affected source within 18 months after the effective date of a permit pursuant to the PSD regulations, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time, as determined by the Bureau, the owner/operator may be required to re-evaluate its BACT analysis.
73..	This facility is located in or adjacent to an area that may be designated as non-attainment for the National Ambient Air Quality Standard for ozone. This permit contains emissions limits for NO_x and/or VOC based on the current attainment status of the area and consistent with other State and Federal requirements. Should the area be designated non-attainment for ozone before start of operation, the Department may reopen this permit, and the current emissions limits may be revised to address attainment of the ozone standard. The owner or operator is advised to take appropriate steps to assure that operations and/or control devices permitted herein can be readily modified, added to, or retrofitted as necessary.
74.	The biomass cogeneration facility shall obtain all necessary permits for all processes from the Bureau of Water or the Bureau of Land and Waste Management as appropriate.
75.	[redacted]

E. EXEMPT SOURCES

Equip ID	Exempt Source Description	Basis
SG-1	Emergency Generator	SC Reg 61-61.1, Section II.B.2.f
SG-2	Emergency Generator	SC Reg 61-61.1, Section II.B.2.f
DT-1 KT-1 LT-1	(3) Fuel Oil Storage Tanks	SC Reg 61-62.1, Section II.B.2.h

Elizabeth J. Basil, Director
Engineering Services Division
Bureau of Air Quality

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AMBIENT AIR QUALITY STANDARDS - STANDARD 2					
STACK	Modeled Emission Rates (lbs/hr)				
	TSP	PM_{10}	SO_2	NO_X	CO
POINT SOURCES					
1STACK	**4.889**	**4.263**	**114.367**	**31.501**	**27.302**
2STACK	**4.889**	**4.263**	**114.367**	**31.501**	**27.302**
AGP7	0.026	0.017	--	--	--
ALE15	0.701	0.701	0.656	9.976	2.148
APF2	1	1	1	8	24
APF3	0.573	0.309	2.063	2.407	1.433
BQH1	0.167	0.09	0.603	1.675	0.419
COOL1	**0.771**	**0.771**	**--**	**--**	**--**
COOL2	**0.771**	**0.771**	**--**	**--**	**--**
GEP30	0.00052	--	--	--	--
HSE12	0.837	0.479	0.422	26.762	7.108
HSE13	0.837	0.479	0.422	26.762	7.108
HSP2	0.21	0.07	--	91.271	--
HTP25	0.111	0.111	--	0.00215	--
KBIOB	**2.98**	**2.98**	**0.372**	**2.98**	**4.023**
LBIOB	**2.98**	**2.98**	**0.372**	**2.98**	**4.023**
NGE20	0.392	0.392	0.367	5.578	1.202
NGE26	1.885	1.345	0.753	11.453	2.467
NGE28	0.589	0.589	0.551	8.373	1.804
NGE29	0.589	0.589	0.551	8.373	1.804
NGE31	0.589	0.589	0.551	8.373	1.804
NGE32	0.519	0.519	0.486	7.387	1.591
NGE39	0.64	0.64	0.599	9.111	1.963
NGE4	1.017	1.017	0.952	14.468	3.117
NGE40	0.64	0.64	0.599	9.111	1.963
NGE44	0.675	0.675	0.632	9.603	2.069
NGE45	0.675	0.675	0.632	9.603	2.069
NGE46	0.675	0.675	0.632	9.603	2.069
SDE2	2.406	1.379	1.215	77.017	20.461
SDE3	2.406	1.379	1.215	77.017	20.461
SDP7	0.00031	0.00031	0.037	23.58	--
ZDP71	0.356	0.196	--	--	--
ZDP72	0.031	0.014	--	--	--
ZDP88	0.44	0.152	--	--	--
ZDP89	0.44	0.152	--	--	--
ZDT1	0.23	0.093	--	--	--
ZDT2	0.148	0.082	--	--	--
AREA SOURCES					
FPJ6	1.6408	0.8208	--	--	--
NBJ28	5.0000	1.7598	--	--	--
VOLUME SOURCES					
EWJ19	0.0006	0.0006	--	--	--
NBJ1	0.3063	0.2587	--	--	--
SDJ1	0.2101	0.0128	--	--	--

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AMBIENT AIR QUALITY STANDARDS - STANDARD 2		
STACK	Modeled Emission Rates (lbs/hr)	
	Lead	Gaseous Fluorides (as HF)
1STACK	**0.0154**	--
2STACK	**0.0154**	--
AGP7	--	--
ALE15	1.34E-04	--
APF2	0.0019	--
APF3	3.60E-04	--
BQH1	1.05E-04	--
COOL1	--	--
COOL2	--	--
GEP30	--	--
HSE12	4.97E-04	--
HSE13	4.97E-04	--
HSP2	--	--
HTP25	--	--
KBIOB	**0.000715**	--
LBIOB	**0.000715**	--
NGE20	7.52E-05	--
NGE26	1.54E-04	--
NGE28	1.13E-04	--
NGE29	1.13E-04	--
NGE31	1.13E-04	--
NGE32	9.96E-05	--
NGE39	1.23E-04	--
NGE4	1.95E-04	--
NGE40	1.23E-04	--
NGE44	1.29E-04	--
NGE45	1.29E-04	--
NGE46	1.29E-04	--
SDE2	0.001431	--
SDE3	0.001431	--
SDP7	--	0.001897
ZDP71	1.46E-06	--
ZDP72	1.46E-06	--
ZDP88	1.46E-06	--
ZDP89	1.46E-06	--
ZDT1	9.03E-06	--
ZDT2	--	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE I

SOURCE IDENTIFICATION	Chlorobenzene (LBS/HR)	Dibutyl Phthalate (LBS/HR)	p-Dichlorobenzne (LBS/HR)	Ethyl Chloride (LBS/HR)	Ethylene Dichloride (LBS/HR)	Ethylene Glycol (LBS/HR)	Ethylidene Dichloride (LBS/HR)	Isophorone (LBS/HR)	1,1,2-Trichloroethane (LBS/HR)	Vinyl Chloride (LBS/HR)
A-GP0018	--	--	--	--	--	0.0002	--	--	--	--
H-WT0020	0.0000	--	--	--	0.0000	0.0000	0.0001	--	--	0.0009
M-EP2303	0.0001	--	0.0002	0.0000	0.0000	--	0.0009	--	0.0000	0.0000
N-BP0051	--	0.0005	--	--	--	--	--	0.0126	--	--
N-BP0052	--	0.0005	--	--	--	--	--	0.0126	--	--

SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE II

SOURCE IDENTIFICATION	Antimony Compounds (LBS/HR)	Arsenic (LBS/HR)	Beryllium (LBS/HR)	Cadmium (LBS/HR)	Chlorine (LBS/HR)	Cobalt Compounds (LBS/HR)	Hydrochloric Acid (LBS/HR)	Methanol (LBS/HR)	Nickel Oxide (LBS/HR)	Quinone (LBS/HR	Selenium Compounds (LBS/HR)
A-GJ0009	--	--	--	--	--	--	--	0.0001	--	--	--
A-PJ0021	0.0000	0.0006	0.0001	--	--	--	--	--	--	--	--
F-PJ0006	0.0256	0.2266	0.0000	--	--	--	--	--	--	--	--
F-SP0023	--	--	--	--	--	--	--	--	0.0000	--	
H-PJ0002	0.0000	0.0000	0.0000	--	--	--	--	--	--	--	--
N-BJ0030	--	--	--	0.0000	--	--	--	--	--	--	--
N-BP0033	--	--	--	0.0002	--	--	--	--	--	--	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE II

SOURCE IDENTIFICATION	Antimony Compounds (LBS/HR)	Arsenic (LBS/HR)	Beryllium (LBS/HR)	Cadmium (LBS/HR)	Chlorine (LBS/HR)	Cobalt Compounds (LBS/HR)	Hydrochloric Acid (LBS/HR)	Methanol (LBS/HR)	Nickel Oxide (LBS/HR)	Quinone (LBS/HR	Selenium Compounds (LBS/HR)
S-DJ0001	--	--	--	--	1.764	--	--	--	--	--	--
S-DP0001	--	--	--	--	--	--	--	--	--	0.0111	--
S-DP0007	--	--	--	--	--	0.0000	0.0000	0.0000	0.0000	--	0.0000

SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE III

SOURCE IDENTIFICATION	Formaldehyde (LBS/HR)	Manganese Compounds (LBS/HR)	Methyl Ethyl Ketone (LBS/HR)	Methyl Isobutyl Ketone (LBS/HR)	(LBS/HR)	(LBS/HR)	(LBS/HR)
A-GJ0009	--	--	0.0001	--			
A-GP0018	--	--	0.002	0.002			
F-BJ0007	0.1228		0.9465	37.2			
F-SP0023	--	0.0000	--	--			
H-BJ0003	--	--	2.93	9.54			
H-BJ0048	0.261	--	32.6	33.04			
H-WT0020	--	--	0.0000	--			
M-EP2303	--	--	0.0000	0.0000			
N-BJ0020	0.0283	--	--	1.07			

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE III

SOURCE IDENTIFICATION	Formaldehyde (LBS/HR)	Manganese Compounds (LBS/HR)	Methyl Ethyl Ketone (LBS/HR)	Methyl Isobutyl Ketone (LBS/HR)	(LBS/HR)	(LBS/HR)	(LBS/HR)
N-BJ0021	--	--	0.3325	3.41			
N-BP0051	0.0000	--	--	--			
N-BP0052	0.0000	--	--	--			
S-DP0007	--	0.0000	--	--			

SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE IV

SOURCE ID	Carbon Tetrachloride (LBS/HR)	Chloroform (LBS/HR)	Methyl Chloroform (LBS/HR)	Methylene Chloride (LBS/HR)	Polychlorinated Biphenyls (PCBs) (LBS/HR)	Tetrachloro-ethylene (LBS/HR)	Trichloroethylene (LBS/HR)	Vinylidene Chloride (LBS/HR)
A-EJ0001	--	--	--	--	--	0.0078	0.0112	--
A-EJ0002	--	--	--	0.0002	--	0.0023	0.0284	--
A-EJ0003	--	--	--	0.0002	--	0.0023	0.0284	--
A-EJ0004	--	--	--	0.0002	--	0.0023	0.0284	--
A-EJ0005	--	--	--	0.0002	--	0.0023	0.0284	--
A-EJ0006	--	--	--	0.0002	--	0.0023	0.0284	--
A-EJ0007	--	--	--	0.0002	--	0.0023	0.0284	--
A-EJ0008	--	--	--	0.0002	--	0.0023	0.0284	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE IV

SOURCE ID	Carbon Tetrachloride (LBS/HR)	Chloroform (LBS/HR)	Methyl Chloroform (LBS/HR)	Methylene Chloride (LBS/HR)	Polychlorinated Biphenyls (PCBs) (LBS/HR)	Tetrachloro-ethylene (LBS/HR)	Trichloroethylene (LBS/HR)	Vinylidene Chloride (LBS/HR)
A-EJ0009	--	--	--	0.0002	--	0.0023	0.0284	--
A-EJ0010	--	--	--	0.0002	--	0.0023	0.0284	--
A-EJ0011	--	--	--	0.0002	--	0.0023	0.0284	--
A-GJ0009	--	--	0.0001	--	--	--	--	--
A-GJ0012	--	--	--	0.0041	--	--	--	--
A-GP0018	--	--	0.0002	0.002	--	--	--	--
C-EP0001	--	--	--	8.93	--	8.93	8.93	--
G-EP0001	--	--	--	--	--	6.4	0.495	--
G-EP0004	--	--	--	--	--	0.03	0.27	--
G-EP0005	--	--	--	--	--	0.03	0.27	--
G-EP0006	--	--	--	--	--	0.03	0.27	--
G-EP0007	--	--	--	--	--	0.03	0.27	--
G-EP0008	--	--	--	--	--	0.03	0.27	--
G-EP0009	--	--	--	--	--	0.03	0.27	--
G-EP0010	--	--	--	--	--	0.03	0.27	--
G-EP0011	--	--	--	--	--	0.03	0.27	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE IV

SOURCE ID	Carbon Tetrachloride (LBS/HR)	Chloroform (LBS/HR)	Methyl Chloroform (LBS/HR)	Methylene Chloride (LBS/HR)	Polychlorinated Biphenyls (PCBs) (LBS/HR)	Tetrachloro-ethylene (LBS/HR)	Trichloroethylene (LBS/HR)	Vinylidene Chloride (LBS/HR)
G-EP0012	--	--	--	--	--	0.03	0.27	--
G-EP0013	--	--	--	--	--	0.03	0.27	--
G-EP0014	--	--	--	--	--	0.03	0.27	--
G-EP0015	--	--	--	--	--	0.03	0.27	--
G-EP0016	--	--	--	2.38	--	108.4	0.49	--
G-EP0017	3.11	1.3	0.21	19.83	--	160.0	26.59	--
G-EP0018	0.57	--	--	2.12	--	9.7	2.29	--
G-EP0019	0.0002	--	--	0.0002	--	0.002	0.01	--
G-EP0020	0.0002	--	--	0.0002	--	0.002	0.016	--
G-EP0021	0.0002	--	--	0.0002	--	0.002	0.016	--
G-EP0022	0.0002	--	--	0.0002	--	0.002	0.016	--
G-EP0023	0.0002	--	--	0.0002	--	0.002	0.01	--
G-EP0024	0.0002	--	--	0.0002	--	0.0002	0.01	--
G-EP0025	0.0002	--	--	0.0002	--	0.0002	0.01	--
G-EP0026	0.0002	--	--	0.0002	--	0.0002	0.01	--
G-EP0027	0.0002	--	--	0.0002	--	--	0.002	--

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SOURCE ID	Carbon Tetrachloride (LBS/HR)	Chloroform (LBS/HR)	Methyl Chloroform (LBS/HR)	Methylene Chloride (LBS/HR)	Polychlorinated Biphenyls (PCBs) (LBS/HR)	Tetrachloro-ethylene (LBS/HR)	Trichloroethylene (LBS/HR)	Vinylidene Chloride (LBS/HR)
G-EP0028	0.0002	--	--	0.0002	--	--	0.004	--
G-EP0029	0.0002	--	--	0.0002	--	--	0.002	--
G-EP0030 DUS system	0.007	0.005	0.655	--	3.2E-05	110.6	224.0	--
G-EP0031 SGCP SVEU	0.274	1.14	1.14	1.14	--	34.2	8.22	--
H-WT0020	0.0006	--	0.0007	0.0029	--	--	--	--
M-EJ0001	--	--	--	--	--	0.026	0.0038	--
M-EP0005	0.0017	0.0515	0.1231	--	--	43.59	1.51	--
M-EP2303	0.0000	0.0002	0.0001	0.0000	--	6.72	1.84	0.0003
P-EJ0001	--	--	--	--	--	0.0001	0.0001	0.0001
T-EP0006	0.0175	0.0005	--	--	--	0.001	0.05	--

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SOURCE IDENTIFICATION	Benzene (LBS/HR)	Biphenyl (LBS/HR)	Cresol (LBS/HR)	Cumene (LBS/HR)	Hexane (LBS/HR)	Mercury (LBS/HR)	Methyl t-Butyl Ether (LBS/HR)
A-PJ0021	--	--	--	--	--	0.0000	--
A-YT0002	0.0065	0.0000	0.0000	0.0002	0.013	--	--
A-YT0003	0.2027	--	--	--	0.3604	--	--
A-YT0004	0.2027	--	--	--	0.3604	--	--
B-VJ0003	0.0069	--	--	--	--	--	--
B-VT0001	0.001	0.0000	0.0000	0.0000	0.002	--	--
F-SK0001	0.0011	0.0000	0.0000	0.0000	0.0023	--	--
F-SK0003	0.0361	0.0000	0.0000	0.0012	0.0722	--	--
F-SP0023	--	--	--	--	--	0.1333	--
F-WP0001	--	--	--	--	--	0.0000	--
F-WT0004	--	--	--	--	--	0.0000	--
F-WT0007	--	--	--	--	--	0.0000	--
F-WT0012	--	--	--	--	--	0.0000	--
F-WT0015	--	--	--	--	--	0.0000	--
F-WT0019	--	--	--	--	--	0.0000	--
F-WT0024	--	--	--	--	--	0.0000	--

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SOURCE IDENTIFICATION	Benzene (LBS/HR)	Biphenyl (LBS/HR)	Cresol (LBS/HR)	Cumene (LBS/HR)	Hexane (LBS/HR)	Mercury (LBS/HR)	Methyl t-Butyl Ether (LBS/HR)
F-WT0025	--	--	--	--	--	0.0000	--
F-WT0026	--	--	--	--	--	0.0000	--
F-WT0030	--	--	--	--	--	0.0000	--
F-WT0034	--	--	--	--	--	0.0000	--
F-WT0040	--	--	--	--	--	0.0000	--
F-WT0042	--	--	--	--	--	0.0000	--
F-WT0048	--	--	--	--	--	0.0000	--
F-WT0051	--	--	--	--	--	0.0000	--
F-WT0056	--	--	--	--	--	0.0000	--
F-WT0060	--	--	--	--	--	0.0000	--
F-WT0065	--	--	--	--	--	0.0000	--
F-WT0073	--	--	--	--	--	0.0000	--
F-WT0078	--	--	--	--	--	0.0000	--
F-WT0083	--	--	--	--	--	0.0000	--
F-WT0087	--	--	--	--	--	0.0000	--
F-WT0096	--	--	--	--	--	0.0000	--

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SOURCE IDENTIFICATION	Benzene (LBS/HR)	Biphenyl (LBS/HR)	Cresol (LBS/HR)	Cumene (LBS/HR)	Hexane (LBS/HR)	Mercury (LBS/HR)	Methyl t-Butyl Ether (LBS/HR)
F-WT0100	--	--	--	--	--	0.0000	--
G-EP0030 DUS system	--	--	--	--	--	5.2E-06	--
G-WT0001	0.01	--	--	--	--	--	--
G-YJ0003	0.0043	--	--	--	--	--	0.0163
G-YK0001	0.0043	--	--	--	--	--	0.0163
G-YT0002	0.0098	--	--	--	0.0175	--	--
G-YT0005	0.0098	--	--	--	0.0175	--	--
G-YT0006	0.0001	0.0000	0.0000	0.0000	0.0003	--	--
G-YT0007	0.0041	--	--	--	0.0073	--	--
H-PJ0002	--	--	--	--	--	0.0000	--
H-SJ0025	--	--	--	--	--	0.0000	--
H-SK0007	0.0327	0.0000	0.0000	0.0011	0.0648	--	--
H-SP0002	--	--	--	--	--	0.07	--
H-WP0020	--	--	--	--	--	0.0000	--
H-WP0021	--	--	--	--	--	0.0000	--
H-WP0022	--	--	--	--	--	0.0000	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE V

SOURCE IDENTIFICATION	Benzene (LBS/HR)	Biphenyl (LBS/HR)	Cresol (LBS/HR)	Cumene (LBS/HR)	Hexane (LBS/HR)	Mercury (LBS/HR)	Methyl t-Butyl Ether (LBS/HR)
H-WP0045	--	--	--	--	--	0.0000	--
H-WP0050	--	--	--	--	--	0.0000	--
H-WT0020	0.0001	0.0001	--	--	--	--	--
H-WT0032	--	--	--	--	--	0.0000	--
H-WT0038	--	--	--	--	--	0.0000	--
H-WT0039	0.0101	--	--	--	--	0.0000	--
H-WT0040	--	--	--	--	--	0.0000	--
H-WT0041	--	--	--	--	--	0.0000	--
H-WT0042	--	--	--	--	--	0.0000	--
H-WT0043	--	--	--	--	--	0.0000	--
H-WT0044	--	--	--	--	--	0.0000	--
H-WT0045	--	--	--	--	--	0.0000	--
H-WT0046	--	--	--	--	--	0.0000	--
H-WT0047	--	--	--	--	--	0.0000	--
H-WT0048	--	--	--	--	--	0.0000	--
H-WT0049	--	--	--	--	--	0.0000	--

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SOURCE IDENTIFICATION	Benzene (LBS/HR)	Biphenyl (LBS/HR)	Cresol (LBS/HR)	Cumene (LBS/HR)	Hexane (LBS/HR)	Mercury (LBS/HR)	Methyl t-Butyl Ether (LBS/HR)
H-WT0050	--	--	--	--	--	0.0000	--
H-WT0051	--	--	--	--	--	0.0000	--
H-WT0053	--	--	--	--	--	0.0000	--
H-WT0054	--	--	--	--	--	0.0000	--
H-WT0055	0.0303	--	--	--	--	0.0000	--
H-WT0056	--	--	--	--	--	0.0000	--
H-WT0057	0.0083	--	--	--	--	0.0000	--
H-WT0058	--	--	--	--	--	0.0000	--
H-WT0094	--	--	--	--	--	0.0000	--
H-WT0095	--	--	--	--	--	0.0000	--
H-WT0096	--	--	--	--	--	0.0000	--
H-WT0097	--	--	--	--	--	0.0000	--
H-WT0103	--	--	--	--	--	0.0000	--
H-WT0105	--	--	--	--	--	0.0000	--
H-WT0107	--	--	--	--	--	0.0000	--
K-PK0006	0.0003	--	--	--	--	--	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE V

SOURCE IDENTIFICATION	Benzene (LBS/HR)	Biphenyl (LBS/HR)	Cresol (LBS/HR)	Cumene (LBS/HR)	Hexane (LBS/HR)	Mercury (LBS/HR)	Methyl t-Butyl Ether (LBS/HR)
K-PK0007	0.0007	--	--	--	--	--	--
K-PK0008	0.0003	--	--	--	--	--	--
K-YJ0001	0.0038	--	--	--	--	--	0.0143
K-YT0001	0.0049	--	--	--	0.0087	--	--
L-YK0001	0.0038	--	--	--	--	--	0.0143
L-YT0001	0.0049	--	--	--	0.0087	--	--
M-EP2303	0.0000	--	--	--	--	--	--
N-BJ0011	0.0329	--	--	--	--	--	--
N-BK0001	0.0008	--	--	--	--	--	--
N-BK0004	0.0004	--	--	--	--	--	--
N-BK0005	0.0006	--	--	--	--	--	--
N-BK0006	0.0005	--	--	--	--	--	--
N-BK0009	0.0002	--	--	--	--	--	--
N-BK0010	0.0002	--	--	--	--	--	--
N-BK0011	0.0003	--	--	--	--	--	--
N-BK0014	0.0001	--	--	--	--	--	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE V

SOURCE IDENTIFICATION	Benzene (LBS/HR)	Biphenyl (LBS/HR)	Cresol (LBS/HR)	Cumene (LBS/HR)	Hexane (LBS/HR)	Mercury (LBS/HR)	Methyl t-Butyl Ether (LBS/HR)
N-BK0015	0.0001	--	--	--	--	--	--
N-BK0016	0.0002	--	--	--	--	--	--
Z-DP0091	0.2	--	--	--	--	0.0000	--

SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE VI

SOURCE IDENTIFICATION	Ethylbenzene (LBS/HR)	Formic Acid (LBS/HR)	Naphthalene (LBS/HR)	Nickel (LBS/HR)	Nitric Acid (LBS/HR)	Oxalic Acid (LBS/HR)	Phenol (LBS/HR)	Sodium Hydroxide (LBS/HR)
A-GP0007	--	--	--	0.0002	--	--	--	--
A-GT0007	--	--	--	--	--	--	0.0000	--
A-GP0018	0.0002	--	--	--	--	--	--	--
A-PJ0021	--	--	--	0.0006	--	--	--	--
A-YT0003	0.0225	--	--	--	--	--	--	--
A-YT0004	0.0225	--	--	--	--	--	--	--
B-VT0001	0.0001	--	0.0000	--	--	--	0.0000	--
F-BJ0007	27.41	--	--	--	--	--	--	--
F-PJ0006	--	--	--	0.0002	--	--	--	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE VI

SOURCE IDENTIFICATION	Ethylbenzene (LBS/HR)	Formic Acid (LBS/HR)	Naphthalene (LBS/HR)	Nickel (LBS/HR)	Nitric Acid (LBS/HR)	Oxalic Acid (LBS/HR)	Phenol (LBS/HR)	Sodium Hydroxide (LBS/HR)
F-SK0001	0.0001	--	0.0000	--	--	--	0.0000	--
F-SK0003	0.0025	--	0.0002	--	--	--	0.0000	--
F-SP0023	--	--	--	--	8.352	--	--	--
F-ST0055	--	--	--	--	--	--	--	0.0000
G-YJ0003	0.0022	--	-	--	--	--	--	--
G-YK0001	0.0022	--	--	--	--	--	--	--
G-YT0002	0.0011	--	--	--	--	--	--	--
G-YT0005	0.0011	--	--	--	--	--	--	--
G-YT0006	0.0000	--	0.0000	--	--	--	0.0000	--
G-YT0007	0.0005	--	--	--	--	--	--	--
H-BJ0003	7.2	--	--	--	--	--	--	--
H-BJ0048	22.0	--	--	--	--	--	--	--
H-PJ0002	--	--	--	0.0000	--	--	--	--
H-RT0001	--	--	--	--	0.0056	--	--	--
H-SK0007	0.0022	--	0.0002	--	--	--	0.0000	--
H-SP0002	--	--	--	0.0104	7.452	--	--	--

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SOURCE IDENTIFICATION	Ethylbenzene (LBS/HR)	Formic Acid (LBS/HR)	Naphthalene (LBS/HR)	Nickel (LBS/HR)	Nitric Acid (LBS/HR)	Oxalic Acid (LBS/HR)	Phenol (LBS/HR)	Sodium Hydroxide (LBS/HR)
H-ST0018	--	--	--	--	--	--	--	0.0000
H-ST0036	--	--	--	--	0.8974	--	--	--
H-TP0025	--	--	--	0.034	--	--	--	--
H-TP0045	--	--	--	0.0064	--	--	--	--
H-WK0006	--	--	--	--	--	0.0365	--	0.0708
H-WK0007	--	--	--	--	0.0365	--	--	0.0365
H-WP0022	--	--	--	--	0.0035	--	--	--
H-WP0045	--	--	--	--	--	--	0.0000	0.0000
H-WP0054	--	--	--	--	--	--	--	0.0000
H-WP0055	--	--	--	--	0.0025	0.0000	--	0.0000
H-WP0057	--	--	--	--	0.0173	--	--	--
H-WT0020	--	0.0002	--	--	--	--	0.0000	--
H-WT0021	--	--	--	--	--	--	--	0.0000
H-WT0113	--	--	--	--	--	--	--	0.0000
H-WT0115	--	--	--	--	--	--	--	0.0000
H-WT0122	--	--	--	--	--	0.0000	--	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE VI

SOURCE IDENTIFICATION	Ethylbenzene (LBS/HR)	Formic Acid (LBS/HR)	Naphthalene (LBS/HR)	Nickel (LBS/HR)	Nitric Acid (LBS/HR)	Oxalic Acid (LBS/HR)	Phenol (LBS/HR)	Sodium Hydroxide (LBS/HR)
H-WT0131	--	--	--	--	--	--	--	0.0001
K-YJ0001	0.0019	--	--	--	--	--	--	--
K-YT0001	0.0005	--	--	--	--	--	--	--
L-YK0001	0.0019	--	--	--	--	--	--	--
L-YT0001	0.0005	--	--	--	--	--	--	--
M-EP2303	0.0000	--	--	--	--	--	0.0000	--
N-BJ0003	--	--	--	0.0216	--	--	--	--
N-BJ0011	--	--	--	0.0648	--	--	--	--
N-BJ0020	9.23	--	--	--	--	--	--	--
N-BJ0021	3.036	--	--	--	--	--	--	--
N-BJ0022	--	--	--	0.0002	--	--	--	--
N-BP0001	--	--	--	0.0434	--	--	--	--
N-BP0003	--	--	--	0.011	--	--	--	--
N-BP0004	--	--	--	0.0104	--	--	--	--
N-BP0005	--	--	--	0.0728	--	--	--	--
N-BP0006	--	--	--	0.191	--	--	--	--

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SOURCE IDENTIFICATION	Ethylbenzene (LBS/HR)	Formic Acid (LBS/HR)	Naphthalene (LBS/HR)	Nickel (LBS/HR)	Nitric Acid (LBS/HR)	Oxalic Acid (LBS/HR)	Phenol (LBS/HR)	Sodium Hydroxide (LBS/HR)
N-BP0007	--	--	--	0.158	--	--	--	--
N-BP0012	--	--	--	0.0004	--	--	--	--
N-BP0013	--	--	--	0.108	--	--	--	--
N-BP0015	--	--	--	0.0109	--	--	--	--
N-BP0018	--	--	--	0.0219	--	--	--	--
N-BP0019	--	--	--	0.0415	--	--	--	--
N-BP0020	--	--	--	0.0002	--	--	--	--
N-BP0021	--	--	--	0.0935	--	--	--	--
N-BP0022	--	--	--	0.028	--	--	--	--
N-BP0023	--	--	--	0.0733	--	--	--	--
N-BP0029	--	--	--	0.0112	--	--	--	--
N-BP0030	--	--	--	0.272	--	--	--	--
N-BP0031	--	--	--	0.0002	--	--	--	--
N-BP0032	--	--	--	0.0002	--	--	--	--
N-BP0034	--	--	--	0.207	--	--	--	--
N-BP0036	--	--	--	0.0216	--	--	--	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE VI

SOURCE IDENTIFICATION	Ethylbenzene (LBS/HR)	Formic Acid (LBS/HR)	Naphthalene (LBS/HR)	Nickel (LBS/HR)	Nitric Acid (LBS/HR)	Oxalic Acid (LBS/HR)	Phenol (LBS/HR)	Sodium Hydroxide (LBS/HR)
N-BP0044	--	--	--	0.011	--	--	--	--
N-BP0045	--	--	--	0.0002	--	--	--	--
N-BP0046	--	--	--	0.0744	--	--	--	--
N-BP0047	--	--	--	0.0744	--	--	--	--
N-BP0048	--	--	--	0.0537	--	--	--	--
N-BP0058	--	--	--	0.0000	--	--	--	--
N-BP0070	--	--	--	0.086	--	--	--	--
N-BP0072	--	--	--	0.0415	--	--	--	--
S-BP0003	--	--	--	0.13	--	--	--	--
S-DJ0001	--	--	--	0.0627	--	--	--	--
S-DK0003	--	0.0037	--	--	--	--	--	--
S-DK0006	--	0.1872	--	--	0.1952	--	--	0.2808
S-DP0001	--	--	--	--	--	--	0.0000	--
S-DP0007	--	0.2	--	--	0.0569	0.0000	--	0.0000
S-DP0009	--	0.0011	--	--	0.0057	0.0000	--	0.0000
S-DP0019	--	0.0001	--	--	--	0.0000	--	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE VI

SOURCE IDENTIFICATION	Ethylbenzene (LBS/HR)	Formic Acid (LBS/HR)	Naphthalene (LBS/HR)	Nickel (LBS/HR)	Nitric Acid (LBS/HR)	Oxalic Acid (LBS/HR)	Phenol (LBS/HR)	Sodium Hydroxide (LBS/HR)
S-DP0067	--	--	--	--	0.0025	--	--	--
S-DT0028	--	--	--	--	0.0111	--	--	--
S-DT0029	--	--	--	--	0.0085	--	--	--
S-DT0031	--	--	--	--	--	--	--	0.0000
S-DT0032	--	--	--	--	--	--	--	0.0000
S-DT0033	--	--	--	--	--	--	--	0.0000
S-DT0035	--	0.0008	--	--	--	--	--	0.0000
S-DT0036	--	0.0008	--	--	--	--	--	0.0000
S-DT0043	--	0.0005	--	--	--	--	--	--
S-DT0045	--	--	--	--	--	--	--	0.0000
S-DT0046	--	0.001	--	--	--	--	--	--

SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE VII

SOURCE IDENTIFICATION	Styrene (LBS/HR)	Toluene (LBS/HR)	2,2,4-Trimethylpentane (LBS/HR)	Xylenes (Mixed Isomers) (LBS/HR)	o-Xylene (LBS/HR)	p-Xylene (LBS/HR)
A-GJ0009	--	0.0001	--	0.0001	--	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE VII

SOURCE IDENTIFICATION	Styrene (LBS/HR)	Toluene (LBS/HR)	2,2,4-Trimethylpentane (LBS/HR)	Xylenes (Mixed Isomers) (LBS/HR)	o-Xylene (LBS/HR)	p-Xylene (LBS/HR)
A-GJ0012	--	0.0072	--	0.324	--	--
A-GJ0013	--	--	--	0.3115	--	--
A-GP0005	--	--	--	0.0816	--	--
A-GP0006	--	--	--	0.0816	--	--
A-GP0018	--	--	--	0.002	--	--
A-GT0007	--	--	--	0.0000	--	--
A-YT0003	--	0.2928	0.0046	0.1126	--	--
A-YT0004	--	0.2928	0.0046	0.1126	--	--
B-VJ0003	--	0.0086	--	0.0466	0.026	0.0121
B-VT0001	0.0000	0.0003	0.0000	0.0002	--	--
F-BJ0007	--	57.97	--	95.23	--	--
F-SK0001	0.0000	0.0004	0.0000	0.0002	--	--
F-SK0003	0.0002	0.0126	0.0008	0.0059	--	--
G-EP0017	--	9.04	--	--	--	--
G-EP0019	--	0.0004	--	--	--	--
G-EP0020	--	0.0004	--	--	--	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE VII

SOURCE IDENTIFICATION	Styrene (LBS/HR)	Toluene (LBS/HR)	2,2,4-Trimethylpentane (LBS/HR)	Xylenes (Mixed Isomers) (LBS/HR)	o-Xylene (LBS/HR)	p-Xylene (LBS/HR)
G-EP0021	--	0.0004	--	--	--	--
G-EP0022	--	0.0004	--	--	--	--
G-EP0023	--	0.0004	--	--	--	--
G-EP0024	--	0.0004	--	--	--	--
G-EP0025	--	0.0004	--	--	--	--
G-EP0026	--	0.0004	--	--	--	--
G-EP0027	--	0.0004	--	--	--	--
G-EP0028	--	0.0004	--	--	--	--
G-EP0029	--	0.0004	--	--	--	--
G-EP0031 SGCP SVEU	--	0.183	--	--	--	--
G-YJ0003	--	0.024	--	0.0109	--	--
G-YK0001	--	0.024	--	0.0109	--	--
G-YT0002	--	0.0142	0.0002	0.0055	--	--
G-YT0005	--	0.0142	0.0002	0.0055	--	--
G-YT0006	0.0000	0.0000	0.0000	0.0000	--	--
G-YT0007	--	0.0059	0.0001	0.0023	--	--

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE VII

SOURCE IDENTIFICATION	Styrene (LBS/HR)	Toluene (LBS/HR)	2,2,4-Trimethylpentane (LBS/HR)	Xylenes (Mixed Isomers) (LBS/HR)	o-Xylene (LBS/HR)	p-Xylene (LBS/HR)
H-BJ0003	--	0.0211	--	38.0	--	--
H-BJ0048	--	17.0	--	311.0	--	--
H-PJ0002	--	0.0000	0.0000	0.0000	--	--
H-SK0007	0.0002	0.0113	0.0007	0.0053	--	--
H-WT0020	--	0.0000	--	0.0000	--	--
H-WT0138	--	0.0000	--	--	--	--
K-PK0006	--	0.0004	--	--	0.0006	0.0004
K-PK0007	--	0.0008	--	0.0044	0.0012	0.0008
K-PK0008	--	0.0003	--	0.0018	0.0005	0.0003
K-YJ0001	--	0.0209	--	0.0095	--	--
K-YT0001	--	0.0071	0.0001	0.0027	--	--
L-PJ0001	--	0.68	--	0.4500	--	--
L-YK0001	--	0.0209	--	0.0095	--	--
L-YT0001	--	0.0071	0.0001	0.0027	--	--
M-EP2303	--	0.0000	--	0.0000	--	--
N-BJ0011	--	0.0348	--	--	0.0423	0.0301

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SAVANNAH RIVER SITE AIR TOXIC EMISSION RATES TABLE VII

SOURCE IDENTIFICATION	Styrene (LBS/HR)	Toluene (LBS/HR)	2,2,4-Trimethylpentane (LBS/HR)	Xylenes (Mixed Isomers) (LBS/HR)	o-Xylene (LBS/HR)	p-Xylene (LBS/HR)
N-BJ0020	--	0.062	--	9.66	--	--
N-BJ0021	--	1.81	--	14.33	--	--
N-BK0001	--	0.001	--	0.0531	0.003	0.0014
N-BK0004	--	0.0005	--	0.0025	0.0014	0.0006
N-BK0005	--	0.0008	--	0.0041	0.0023	0.0011
N-BK0006	--	0.0006	--	0.0033	0.0018	0.0008
N-BK0009	--	0.0003	--	0.0016	0.0009	0.0004
N-BK0010	--	0.0002	--	0.0012	0.0007	0.0003
N-BK0011	--	0.0004	--	0.0023	0.0013	0.0006
N-BK0014	--	0.0001	--	0.0006	0.0003	0.0002
N-BK0015	--	0.0001	--	0.0004	0.0002	0.0001
N-BK0016	--	0.0003	--	0.0014	0.0008	0.0004

Notice of Appeal Procedure

The following procedures are in effect beginning July 1, 2006, pursuant to 2006 Act No. 387:

1. This decision of the S.C. Department of Health and Environmental Control (Department) becomes the final agency decision 15 days after notice of the decision has been mailed to the applicant or respondent, unless a written request for final review is filed with the Department by the applicant, permittee, licensee, or affected person.

2. An applicant, permittee, licensee, or affected person who wishes to appeal this decision must file a written request for final review with the Clerk of the Board at the following address or by facsimile at 803-898-3393.

   Clerk of the Board
   SC DHEC
   2600 Bull Street
   Columbia, SC 29201

3. The request for final review should include the following:
   a. the grounds on which the Department's decision is challenged and the specific changes sought in the decision
   b. a statement of any significant issues or factors the Board should consider in deciding how to handle the matter
   c. a copy of the Department's decision or action under review

4. In order to be timely, a request for final review must be received by the Clerk of the Board within 15 days after notice of the decision has been mailed to the applicant or respondent. If the 15th day occurs on a weekend or State holiday, the request is due to be received by the Clerk of the Board on the next working day. The request for final review must be received by the Clerk of the Board by 5:00 p.m. on the date it is due.

5. If a timely request for final review is filed with the Clerk of the Board, the Clerk will provide additional information regarding procedures.

6. The Board of Health and Environmental Control has 60 days from the date of receipt of a request for final review to conduct a final review conference. The conference may be conducted by the Board, its designee, or a committee of three members of the Board appointed by the chair.

7. If a final review conference is not conducted within 60 days, the Department decision becomes the final agency decision, and a party may request a contested case hearing before the Administrative Law Court within 30 days after the deadline for the final review conference.

The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.