



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

October 3, 2013

Mr. James Morgan
Trade Specialist V
South Carolina Department of Mental Health
2050 Gregg Street
Columbia, SC 29201

Re: Modification to Attachments A and B for the General Conditional Major Operating Permit for Fuel Combustion Operations No. GCM-1900-0055

Dear Mr. Burris:

Enclosed are Attachments A and B to GCM-1900-0055. This modified permit has the same expiration date as the previous General Conditional Major Operating Permit and will remain valid through March 31, 2021. This modified permit is being issued to incorporate changes into your existing Permit as described in the enclosed Record of Revisions.

Please be advised that this facility's periodic reporting period is not affected by this modification. In addition, there have been no changes to the General Conditional Major for Fuel Combustion Operations. It has not been included and you should retain the copy you were previously issued.

It is important for you and/or an authorized representative responsible for the overall operation of this facility to read this issued permit carefully and to understand all requirements. If any errors or omissions are discovered, please notify Hetal Patel of my staff, via e-mail at patelhy@dhec.sc.gov, or call 803-898-3850 immediately.

Sincerely,

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

EJB: :hyp:kal

Enclosure

cc: Permit File: 1900-0055

ec: Ben Buchanan, BEHS

ATTACHMENT A

Facility Information

South Carolina Department of Mental Health

GCM-1900-0055

Page 2 of 3

D - EQUIPMENT INSTALLED

Equipment ID	Equipment Description	Control Devices	Fuels Used	Installation Date	Modification Date	Emission Point ID
B-1 (Central Energy Facility) VOID	62.5 x 10 ⁶ BTU/HR Babcock & Wilcox Boiler	N/A	Primary fuel – natural gas Secondary fuel – No. 5 fuel oil w/ max. sulfur content 2% by weight	1981	N/A	CEF Stack No. 1
B-2 (Central Energy Facility)	62.5 x 10 ⁶ BTU/HR Babcock & Wilcox Boiler	N/A	Primary fuel – natural gas Secondary fuel – No. 5 fuel oil w/ max. sulfur content 2% by weight	1981	N/A	CEF Stack No. 2
B-3 (Central Energy Facility)	62.5 x 10 ⁶ BTU/HR Babcock & Wilcox Boiler	N/A	Primary fuel – natural gas Secondary fuel – No. 5 fuel oil w/ max. sulfur content 2% by weight	1981	N/A	CEF Stack No. 3
B-4 (Tucker Center) (Moved to Exempt Sources Table)	6.726 x 10 ⁶ BTU/HR Boiler – Power Flame Model CR4-GO-30 Burner	N/A	Primary fuel – natural gas Secondary fuel – No. 2 fuel oil w/ max. sulfur content 0.14% by weight	2008	N/A	Tucker Stack No. 1
B-5 (Tucker Center) (Moved to Exempt Sources Table)	6.726 x 10 ⁶ BTU/HR Boiler – Power Flame Model CR4-GO-30 Burner	N/A	Primary fuel – natural gas Secondary fuel – No. 2 fuel oil w/ max. sulfur content 0.14% by weight	2008	N/A	Tucker Stack No. 2

E - EXEMPT SOURCES

Equipment ID	Equipment Description	Installation Date	Modification Date	Basis
EX-B-4 (Tucker Center)	6.726 x 10 ⁶ BTU/HR Boiler - Power Flame Model CR4-GO-30 Burner (burn natural gas and ultra low sulfur No. 2 fuel oil as back-up)	2008	N/A	SC Bureau of Air Quality maintained Exemption List of July 26, 2013 Section (A)(1)(v)

ATTACHMENT A

Facility Information

South Carolina Department of Mental Health

GCM-1900-0055

Page 3 of 3

E - EXEMPT SOURCES

Equipment ID	Equipment Description	Installation Date	Modification Date	Basis
EX-B-5 (Tucker Center)	6.726 x 10 ⁶ BTU/HR Boiler - Power Flame Model CR4-GO-30 Burner (burn natural gas and ultra low sulfur No. 2 fuel oil as back-up)	2008	N/A	SC Bureau of Air Quality maintained Exemption List of July 26, 2013 Section (A)(1)(v)
EX-EG-1	260 KW Emergency Generator	1981	N/A	SC Regulation 61-62.1, Section II, Part B, (2) (f) (ii)
EX-ST-1	Storage Tank #1: 30,000 gallon No. 5 fuel oil storage tank	1981	N/A	SC Regulation 61-62.1, Section II, Part B, (2) (h)
EX-ST-2	Storage Tank #2: 30,000 gallon No. 5 fuel oil storage tank	1981	N/A	SC Regulation 61-62.1, Section II, Part B, (2) (h)
EX-ST-3	Storage Tank #3: 30,000 gallon No. 5 fuel oil storage tank	1981	N/A	SC Regulation 61-62.1, Section II, Part B, (2) (h)
EX-ST-4	Storage Tank #4: 1,000 gallon diesel fuel oil storage tank	1981	N/A	SC Regulation 61-62.1, Section II, Part B, (2) (h)
EX-EB-1	1.336 x 10 ⁶ BTU/HR natural gas-fired boiler (not in use)	1966	N/A	SC Regulation 61-62.1, Section II, Part B, (1) (a)

F - CONDITIONS

Condition Number	Equipment/ Control Device ID	Regulated Pollutant/ Standard	Conditions
F.1	Facility Wide	SO ₂ NO _x	The Central Energy Facility and the Tucker Center are considered to be co-located. Combined emissions from both locations shall be used to determine compliance with the facility wide emission limits established under this permit.

ATTACHMENT B

Modeled Emission Rates

South Carolina Department of Mental Health

GCM-1900-0055

Page 1 OF 1

The emission rates listed herein are not considered federally enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards.

AMBIENT AIR QUALITY STANDARDS - STANDARD NO. 2					
Emission Point ID	Modeled Emission Rates (lbs/hr)				
	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x
B-1	4.79167	3.575	-----	130.8333	-----
B-2	4.79167	3.575	-----	130.8333	-----
B-3	4.79167	3.575	-----	130.8333	-----

AMBIENT AIR QUALITY STANDARDS - STANDARD NO. 2				
Emission Point ID	Modeled Emission Rates (lbs/hr)			
	CO	Lead	HF	NO ₂
B-1	5.14706	-----	-----	19.58333
B-2	5.14706	-----	-----	19.58333
B-3	5.14706	-----	-----	19.58333