



Catherine B. Templeton, Director

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

November 7, 2013

Mr. Steve Hyatt  
McLeod Regional Medical Center  
PO Box 100551  
Florence, SC 29501-0551

Re: Modification to Attachment A for the General Conditional Major Operating Permit for Fuel Combustion Operations No. GCM-1040-0048

Dear Mr. Hyatt:

Enclosed are Attachments A and B to GCM-1040-0048. 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](mailto:patelhy@dhec.sc.gov), or call 803-898-3850 immediately.

Sincerely,

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

EJB:shb/hyp:kal  
Enclosure

cc: Permit File: 1040-0048

ec: Buck Graham, BEHS



# ATTACHMENT A

## Facility Information

### McLeod Regional Medical Center

GCM-1040-0048

Page 2 of 4

#### D - EQUIPMENT INSTALLED

Equipment ID	Equipment Description	Fuels Used	Installation/Modification Date	Emission Point ID
VOID Boiler #1	VOID - 20.9 Million BTU/hr, Trane / FTBB-3191-40-5150-1C Boiler in Energy Center, Main Tower Boiler Room	Natural Gas No. 2 Fuel Oil ( $\leq 0.05\%$ sulfur content by weight)	1978	B1
VOID Boiler #2	<del>VOID 20.9 Million BTU/hr, Trane / FTBB 3191 40-5150 1C Boiler in Energy Center, Main Tower Boiler Room</del>	<del>Natural Gas No. 2 Fuel Oil (<math>\leq 0.05\%</math> sulfur content by weight)</del>	<del>1978</del>	<del>B2</del>
VOID Boiler #3	VOID 20.9 Million BTU/hr, Trane / FTBB-3191-40-5150-1C Boiler in Energy Center, Main Tower Boiler Room	Natural Gas No. 2 Fuel Oil ( $\leq 0.05\%$ sulfur content by weight)	1978	B3
Boiler #4	29 Million BTU/hr fire tube Superior X6-X-3500-S150-GPCF-GA2, SN16628, LLR 10163 Boiler used to generate steam for use in the HVAC systems at the medical complex. Equipped with a Low NO <sub>x</sub> burner <b>NSPS A and Dc</b>	Natural Gas No. 2 Fuel Oil ( $\leq 0.0015\%$ sulfur content by weight)	10-17-2011	B4
Boiler #5	8.37 Million BTU/hr, Cleaver Brooks / CB-200-200 Boiler in Material Services / Laundry	Natural Gas No. 2 Fuel Oil ( $\leq 0.05\%$ sulfur content by weight)	1991	B5
Boiler #6	8.37 Million Btu/hr, Cleaver Brooks / CB-200-200 Boiler in Material Services / Laundry	Natural Gas No. 2 Fuel Oil ( $\leq 0.05\%$ sulfur content by weight)	1991	B6
Boiler #1	20.9 Million BTU/hr, Superior/ 7-X-3500, SN17004, LLR 9864 Boiler in Energy Center, Main Tower Boiler Room. Equipped with a Low NO <sub>x</sub> burner <b>NSPS A and Dc</b>	Natural Gas No. 2 Fuel Oil ( $\leq 0.05\%$ sulfur content by weight)	12-19-2012	B1
Boiler #3	29 Million BTU/Hr fire tube Superior X6-X-3500, SN17317, LLR 09863 Boiler used to generate steam for use in the HVAC systems at the medical complex. Equipped with a Low NO <sub>x</sub> burner. <b>NSPS A and Dc</b>	Natural Gas No. 2 Fuel Oil ( $\leq 0.05\%$ sulfur content by weight)	3-11-2013	B3
Boiler #2	29 million BTU/hr fire tube Superior boiler (Model X6-X-3500-S150-GPCF-GA2). SN-17431, LLR09865. The boiler will be used to generate steam for use in the HVAC systems at the medical complex. Equipped with a Low NO <sub>x</sub> burner. <b>NSPS A and Dc</b>	Natural Gas No. 2 Fuel Oil ( $\leq 0.05\%$ sulfur content by weight)	9-23-2013	B2

# ATTACHMENT A

## Facility Information

### McLeod Regional Medical Center

GCM-1040-0048

Page 3 of 4

#### E - EXEMPT SOURCES

Equipment ID	Equipment Description	Installation/Modification Date	Basis
Boiler #10	0.399 Million BTU/hr Raypack / H3-0403-B-CECRCAA Natural Gas Boiler at Human Resources	11-1997	SC Regulation 61-62.1, Section II(B)(2)(a)
Boiler #11	0.399 Million BTU/hr Raypack / H3-0403-B-CECRCAA Natural Gas Boiler at Human Resources	11-1997	SC Regulation 61-62.1, Section II(B)(2)(a)
Boiler #12	0.832 Million Btu/hr, Raypack / H8-0992B Natural Gas Boiler at the Hospice House	2011	SC Regulation 61-62.1, Section II(B)(2)(a)
Boiler #13	0.832 Million Btu/hr, Raypack / H8-0992B Natural Gas Boiler at the Hospice House	8-2-2012	SC Regulation 61-62.1, Section II(B)(2)(a)
GENX01	Generator #1 - 1250 kW Cummins / DQGAB-7786875 Diesel at the Central Energy Plant	11-12-2012	SC Regulation 61-62.1, Section II(B)(2)(f)(ii)
GENX02	Generator #2 - 1250 kW Cummins / DQGAB-7786819 Diesel at the Central Energy Plant	11-12-2012	SC Regulation 61-62.1, Section II(B)(2)(f)(ii)
GENX03	Generator #3 - 1250 kW Cummins / DQGAB-7786879 Diesel at the Central Energy Plant	11-12-2012	SC Regulation 61-62.1, Section II(B)(2)(f)(ii)
GENX04	Generator #4 - 1250 kW Cummins / DQGAB-7786877 Diesel at the Central Energy Plant	11-12-2012	SC Regulation 61-62.1, Section II(B)(2)(f)(ii)
GENX06	Generator #6 - 1250 kW Caterpillar / Eng. 3512 Diesel Emergency Generator at North End Between Main Tower & Pavilion	08-2005	SC Regulation 61-62.1, Section II(B)(2)(f)(ii)
GENX07	Generator #7 - 180 kW Generac/Nat'l Power Corp / SD180 Diesel Emergency Generator at Hospice House	12-2004	SC Regulation 61-62.1, Section II(B)(2)(f)(ii)
GENX08	Generator #8 - 223 kW Caterpillar / Eng. 3208 Diesel Emergency Generator at Medical Plaza	Late 1990's	SC Regulation 61-62.1, Section II(B)(2)(f)(ii)
GP1	Gas Pack Unit #1 - 0.432 Million BTU/hr Carrier / 48 MA-024-611 Natural Gas Unit for HVAC Reheat on Roof of McLeod Family Medicine Center	1996	SC Regulation 61-62.1, Section II(B)(2)(c)
GP2	Gas Pack Unit #2 - 0.432 Million BTU/hr Carrier / 48 MA-024-611 Natural Gas Unit for HVAC Reheat on Roof of McLeod Family Medicine Center	1996	SC Regulation 61-62.1, Section II(B)(2)(c)
GP3	Gas Pack Unit #3 - 0.432 Million BTU/hr Carrier / 48 MA-028-611 Natural Gas Unit for HVAC Reheat on Roof of McLeod Family Medicine Center	1996	SC Regulation 61-62.1, Section II(B)(2)(c)
GP4	Gas Pack Unit #4 - 0.432 Million BTU/hr Carrier / 48 MA-028-611 Natural Gas Unit for HVAC Reheat on Roof of McLeod Family Medicine Center	1996	SC Regulation 61-62.1, Section II(B)(2)(c)
GP5	Gas Pack Unit #5 - 0.432 Million BTU/hr Carrier / 48 MA-028-611 Natural Gas Unit for HVAC Reheat on Roof of McLeod Family Medicine Center	1996	SC Regulation 61-62.1, Section II(B)(2)(c)
GP6	Gas Pack Unit #6 - 0.432 Million BTU/hr Carrier / 48 MA-028-611 Natural Gas Unit for HVAC Reheat on Roof of McLeod Family Medicine Center	1996	SC Regulation 61-62.1, Section II(B)(2)(c)
GP7	Gas Pack Unit #7 - 0.432 Million BTU/hr Trane / YCD240B3LOH Natural Gas Unit for HVAC Reheat on Roof of Laundry	09-16-2002	SC Regulation 61-62.1, Section II(B)(2)(c)

**ATTACHMENT A**

**Facility Information**

**McLeod Regional Medical Center**

**GCM-1040-0048**

**Page 4 of 4**

**E - EXEMPT SOURCES**

<b>Equipment ID</b>	<b>Equipment Description</b>	<b>Installation/Modification Date</b>	<b>Basis</b>
GP8	Gas Pack Unit #8 - 0.432 Million BTU/hr Trane / YCD150-301 Natural Gas Unit for HVAC Reheat on Roof of Laundry	09-16-2002	SC Regulation 61-62.1, Section II(B)(2)(c)
AST1	30,000 Gallon No. 2 Fuel Oil Above Ground Storage Tank	2005	SC Regulation 61-62.1, Section II(B)(2)(h)
AST2	20,000 Gallon No. 2 Fuel oil Above Ground Storage Tank - Central Energy Plant	11-12-2012	SC Regulation 61-62.1, Section II(B)(2)(h)
AST3	1,120 Gallon No. 2 Fuel oil Above Ground Storage Tank - Central Energy Plant	11-12-2012	SC Regulation 61-62.1, Section II(B)(2)(h)
AST4	1,120 Gallon No. 2 Fuel oil Above Ground Storage Tank - Central Energy Plant	11-12-2012	SC Regulation 61-62.1, Section II(B)(2)(h)
AST5	1,120 Gallon No. 2 Fuel oil Above Ground Storage Tank - Central Energy Plant	11-12-2012	SC Regulation 61-62.1, Section II(B)(2)(h)
AST6	1,120 Gallon No. 2 Fuel oil Above Ground Storage Tank - Central Energy Plant	11-12-2012	SC Regulation 61-62.1, Section II(B)(2)(h)
AST7	3,000 Gallon No. 2 Fuel oil Above Ground Storage Tank - Generator 6	2001	SC Regulation 61-62.1, Section II(B)(2)(h)
AST8	2,000 Gallon No. 2 Fuel oil Above Ground Storage Tank - Laundry	1990	SC Regulation 61-62.1, Section II(B)(2)(h)
AST9	1,000 Gallon No. 2 Fuel oil Above Ground Storage Tank - Hospice	2004	SC Regulation 61-62.1, Section II(B)(2)(h)
AST10	650 Gallon No. 2 Fuel oil Above Ground Storage Tank - Plaza	Unknown	SC Regulation 61-62.1, Section II(B)(2)(h)

**F - CONDITIONS**

<b>Condition Number</b>	<b>Equipment/Control Device ID</b>	<b>Regulated Pollutant/Standard</b>	<b>Conditions</b>
N/A	N/A	N/A	N/A

## ATTACHMENT B

### Modeled Emission Rates

McLeod Regional Medical Center

GCM-1040-0048

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 <sub>10</sub>	SO <sub>2</sub>	NO <sub>2</sub>	CO
Boiler 1	0.415	0.046	3.48	1.070
Boiler 2	0.415	0.046	3.48	1.070
Boiler 3	0.415	0.046	3.48	1.070
Boiler 4	--	--	3.48	--
Boiler 5	0.200	0.420	1.20	0.690
Boiler 6	0.200	0.420	1.20	0.690

CLASS II PREVENTION OF SIGNIFICANT DETERIORATION - STANDARD NO. 7				
Emission Point ID	Modeled Emission Rates (lbs/hr)			
	PM <sub>2.5</sub>	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>
Boiler 1	--	--	--	3.492
Boiler 2	--	--	--	3.492
Boiler 3	--	--	--	3.492
Boiler 4	--	--	--	3.492
Boiler 5	--	--	--	--
Boiler 6	--	--	--	--