

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, or call 803-898-3850 immediately.

Sincerely,

Elizabeth J. Basil

Director, Engineering Services Division

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Bureau of Air Quality

EJB:shb/hyp:kal

Enclosure

cc: Permit File: 1040-0048

ec: Buck Graham, BEHS

Facility Information

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GENERAL INFORMATION

A - APPLICABLE PERMIT DATES

ISSUED DATE: March 30, 2011 EFFECTIVE DATE: April 01, 2011 COVERAGE DATE: March 30, 2011

EXPIRATION DATE: March 31, 2021

B-FACILITY INFORMATION

FEDERAL EMPLOYER IDENTIFICATION NO.: 57-370242 SIC CODE(S): 8062 NAICS CODE(S): 622110 EPA (AIRS) FACILITY ID NUMBER: 4504100048

C - FACILITY PHYSICAL ADDRESS

FACILITY STREET ADDRESS: 555 E. Cheves St. CITY, STATE, ZIP FACILITY IS LOCATED IN: Florence, SC 29506

COUNTY FACILITY IS LOCATED IN: Florence

| | RECORD OF REVISIONS FOR GCM-1040-0048 | | | | |
|--------------------|---------------------------------------|---|--|--|--|
| Revision Number | Final Revision Date | Description of Change | | | |
| 1 | 11/02/11 | Incorporated Boiler #4 from Construction Permit 1040-0048-CB into General Conditional Major Operating Permit. Updated Section D to include the new boiler and renamed existing boilers from Boiler #4 and Boiler #5 to Boiler #5 and Boiler #6 (the two 8.37 Million Btu/hr, Cleaver Brooks Boilers). And added new boiler as Boiler #4. And updated Attachment B modeled emission rates. | | | |
| 2 | 2/22/13 | Updated Emergency Generator Replacement for EX-GENX01 through EX-GENX05. | | | |
| 3 | 06/13/2013 | Incorporated Boiler #3 from Construction Permit 1040-0048-CB in to General Conditional Major Operating Permit. Corrected Boiler #1 serial number. Updated Section D to include the new Boiler 20.9 Million BTU/hr Superior/7-X-3500. Updated the Exempt Sources list per facility (via email from Mr. Keen on 4/11/12) request. Corrected Boiler #4 sulfur content from 0.015% to 0.05% (per email request from Mr. Keen on 4/17/13). | | | |
| 4 | 11/07/2013 | Incorporated Boiler #2 from Construction Permit 1040-0048-CB in the General Conditional Major Operating Permit. Corrected Boiler #1 and Boiler #4 serial and LLR numbers. Voided Boiler #2 installed in 1978. | | | |
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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 (≤0.05% sulfur content by weight) | 1978 | B1 |
| VOID Boiler #2 | 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 (≤0.05% sulfur content by weight) | 1978 | B2 |
| 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 (≤0.05% sulfur content by weight) | 1978 | В3 |
| 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 _X burner NSPS A and Dc | Natural Gas No. 2 Fuel Oil (≤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 (≤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 (≤0.05% sulfur content by weight) | 1991 | В6 |
| 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 _X burner NSPS A and Dc | Natural Gas No. 2 Fuel Oil (≤0.05% sulfur content by weight) | 12-19-2012 | В1 |
| 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 _X burner. NSPS A and Dc | Natural Gas No. 2 Fuel Oil (≤0.05% sulfur content by weight) | 3-11-2013 | В3 |
| 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 _X burner. NSPS A and Dc | Natural Gas No. 2 Fuel Oil (≤0.05% sulfur content by weight) | 9-23-2013 | B2 |

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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 Diesal 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 Diesal 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 Diesal 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 Diesal 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) |

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E - EXEMPT SOURCES

| Equipment ID | Equipment Description | Installation/ Modification Date | Basis |
|--------------|--|---------------------------------------|---|
| 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 Stroage 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 Stroage 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 Stroage 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 Stroage 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 Stroage 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 Stroage Tank - Generator 6 | 2001 | SC Regulation 61-62.1, Section II(B)(2)(h) |
| AST8 | 2,000 Gallon No. 2 Fuel oil Above Ground Stroage Tank - Laundry | 1990 | SC Regulation 61-62.1, Section II(B)(2)(h) |
| AST9 | 1,000 Gallon No. 2 Fuel oil Above Ground Stroage Tank - Hospice | 2004 | SC Regulation 61-62.1, Section II(B)(2)(h) |
| AST10 | 650 Gallon No. 2 Fuel oil Above Ground Stroage Tank - Plaza | Unknown | SC Regulation 61-62.1, Section II(B)(2)(h) |

F - CONDITIONS

| Condition Number | Equipment/ Control Device ID | Regulated Pollutant/ Standard | Conditions |
|---------------------|------------------------------------|-------------------------------------|------------|
| N/A | N/A | N/A | N/A |

Modeled Emission Rates

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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) | | | |
| Emission Foint 1D | PM_{10} | SO_2 | NO_2 | 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) | | | | |
| Emission Foint 1D | $PM_{2.5}$ | PM ₁₀ | SO ₂ | NO_X | |
| Boiler 1 | | | | 3.492 | |
| Boiler 2 | | | | 3.492 | |
| Boiler 3 | | | | 3.492 | |
| Boiler 4 | | | | 3.492 | |
| Boiler 5 | | | | | |
| Boiler 6 | | | | | |