D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

Office of Environmental Quality Control
Bureau of Air Quality
General Conditional Major Operating Permit

Textile Operations

Pursuant to the provisions of the *Pollution Control Act*, Sections 48-1-50(5) and 48-1-110(a), the *1976 Code of Laws of South Carolina*, as amended, and *South Carolina Regulation* 61-62, *Air Pollution Control Regulations and Standards*, the Bureau of Air Quality authorizes the operation of these sources in accordance with the valid construction permits, and the plans, specifications and other information submitted in the General Conditional Major Operating Permit application. Sources operating under this general permit wish to limit their potential to emit as defined in South Carolina Air Pollution Control Regulation 61-62.1. All official correspondence, plans, permit applications, and written statements are an integral part of the permit. Any false information or misrepresentation in the application for a construction or operating permit may be grounds for permit revocation.

The operation of these sources are subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

Issue Date: November 6, 2013

Director, Engineering Services Division
Bureau of Air Quality

RECORD OF REVISIONS	
Date	**Description of Change**
12-12-2013	Modified Condition A.1 criteria 1 to specify stationary combustion sources
05-01-2014	Added Condition F.5 for "limited use boilers."
06-20-2014	Added Conditions B.7 – B.9 and B.20
10-20-2014	Changed SO_2 limit in Condition B.11; Modified Condition B.1, B.15, F.4, H.2, H.4, I.1 through I.4 and Part E; Added Conditions I.5 through I.7

A. APPLICABILITY

Condition Number	Condition
A.1	This Textile Operations General Conditional Major Operating Permit is applicable to facilities conducting textile operations only. For the purpose of this operating permit, textile operations means any one of the following: 1. Staple fibers and filaments suitable for conversion to or use as yarns, or for the preparation of woven, knit, or nonwoven fabrics 2. Yarns made from natural or manufactured fiber 3. Fabrics and other manufactured products made from staple fibers and filaments and from yarn; and 4. Garments and other articles fabricated from fibers, yarns, or fabrics. A facility may operate under the conditions contained herein if it meets the following criteria, as applicable: 1. Stationary combustion sources at the facility must be fired on natural gas, propane, virgin fuel oil (sulfur content equal to or less than 2.1% by weight), biodiesel that meets ASTM D-6751 or used spec oil as defined in S. C. Regulation 61-62.1, Section I. The use of any non-specification oil, hazardous waste, or any other waste chemical as a fuel or any addition of these items to the fuel shall not be allowed. 2. The maximum capacity of any individual boiler on-site is limited to 100 million BTU/hr heat input capacity. 3. Facilities subject to 40 CFR 60 Subpart VVV (coating operation or coating mix equipment used to prepare coatings for the polymeric coating of supporting substrates not for shipment to another plant or for sale to another company constructed, reconstructed, or modified after April 30, 1987) shall use less than < 90 Mg/yr of VOC. In addition to the exempt sources outlined in SC Regulation 61-62.1, Section II(B) the following are sources typically found at textile facilities that are considered exempt based on Section (II)(B)(2)(h). These sources are specifically mentioned in the permit so the owner/operators do not have to ask permission (request exemptions) to install any of these types of sources. a. Commercial air conditioning units or air wash systems collecting dust from spinning and textile operations. b. Storage silos for solid sizing material, which are loaded/unloaded by closed transfers. c. Lab scale fabric finishing and testing operations used for the purposes of research and development and/or quality control only. d. Filters located on vacuum or collection systems that collect fiber dust from textile operations (Abington systems).
A.2	Facilities covered under this permit shall have federally enforceable limits for the avoidance of Prevention of Significant Deterioration (PSD), Nonattainment New Source Review (NA NSR), and/or Title V emissions.

B. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Condition
B.1	**Emission Unit ID:** All (S.C. Regulation 61-62.1, Section II.J.1.g) A copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. The owner or operator shall maintain such operational records; make reports; install, use, and maintain monitoring equipment or methods; sample and analyze emissions or discharges in accordance with prescribed methods at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least 5 years from the date the record was generated and shall be made available to a Department representative upon request.

B. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Condition
B.2	**Equipment/Control Device ID:** Control Equipment (All) 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.
B.3	**Equipment/Control Device ID:** Control Equipment (All) 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 S.C. Regulation 61-62.1 Section II.
B.4	**Equipment/Control Device ID:** Control Equipment (When ranges have not been submitted) 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 as required in the applicable construction permit or within 180 days of start up of the source. The operating ranges may be updated using this procedure, following Bureau approval.
B.5	**Equipment/Control Device ID:** Control Equipment (Source where the range has already been submitted) Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.
B.6	**Equipment/Control Device ID:** Control Equipment (Modification to existing sources or adding a new source to existing control device) Operational ranges for the monitored parameters shall be reviewed and re-established, if necessary, 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. If ranges need to be re-established, these ranges, with supporting documentation and quality assurance procedures, shall be submitted to the Bureau for approval within 180 days of start up/modification of the source. If the ranges do not change due to this addition/modification, an analysis of the review shall be stored on site. The operating ranges may be updated using this procedure, following Bureau approval.
B.7	**Equipment/Control Device ID:** Baghouse, Dust Collector The owner/operator shall continue to operate and maintain pressure drop gauge(s) on each module of each baghouse. Pressure drop readings for each baghouse shall be recorded daily during source operation. Operation and maintenance checks shall be made on at least a weekly basis for baghouse cleaning systems, dust collection hoppers and conveying systems for proper operation. Each baghouse shall be in place and operational whenever processes controlled by it are running, except during periods of baghouse malfunction or mechanical failure.

B. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Condition
B.8	**Equipment/Control Device ID:** Cyclone Each cyclone shall be in place and operational whenever processes controlled by each cyclone are running, except during periods of cyclone malfunction or mechanical failure. The following operation and maintenance checks will be made on at least a weekly basis for all cyclones: • Check each cyclone and ductwork system for damaged or worn sheet metal or other interferences with proper operation. • Check dust collection hoppers and conveying systems for proper operation. The results from the operation and maintenance checks shall be maintained in logs (written or electronic), along with any corrective action taken.
B.9	**Equipment/Control Device ID:** Filters Filter(s) shall be operational and in place at all times when equipment or processes controlled by filter(s) are operating, except during periods of malfunction or mechanical failure. A schedule shall be implemented for the daily inspection and regular cleaning or replacement of the filter(s). Records of these events shall be maintained in logs (written or electronic) and maintained on site.
B.10	**Equipment/Control Device ID:** Fuel Combustion Sources (All) (SC Regulation 61-62.5, Standard No. 1 Section I) All fuel burning sources are subject to the following emission limitations: 1. If constructed on or after February 11, 1971, shall not discharge into the ambient air smoke which exceeds an opacity of 20%. 2. If constructed before February 11, 1971, shall not discharge into the ambient air smoke which exceeds an opacity of 40%. 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%. The opacity standards set forth above do not apply during startup or shutdown. Owners and operators 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 of fuel burning sources except natural gas fired units, 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.
B.11	**Equipment/Control Device ID:** Fuel Combustion (S.C. Regulation 61-62.5 Standard No. 1) The maximum allowable discharge: **Pollutant** / **Emission Limit** PM — 0.6 pounds per million BTU input PM — 0.8 pounds per million BTU input* SO_2 — 2.3 pounds per million BTU input *Fuel burning sources 10 million BTU/hr heat input and smaller constructed prior to February 11, 1971

B. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Condition
B.12	**Equipment/Control Device ID**: Fuel Combustion Sources with a heat input capacity greater than or equal to 10 million BTU/hr The fuel combustion sources are subject to New Source Performance Standards (NSPS), 40 CFR 60 Subpart A, General Conditions and Subpart Dc Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, and S.C. Regulation 61-62.60 Subparts A and Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, as applicable. These sources shall comply with all applicable requirements of these Subpart A and Dc.
B.13	**Equipment/Control Device ID:** Fuel Combustion Sources (Fuel Oil Only) (S. C. Regulation 61-62.5, Standard No. 1, Section I and 40 CFR 60, Subpart Dc) For sources greater than 30 million BTU/hr that burn oil and were constructed, reconstructed or modified after June 9, 1989, the source(s) must demonstrate simultaneous compliance with requirements 1 and 2 and associated record keeping as detailed below: 1. (S. C. Regulation 61-62.5, Standard No. 1, Section I (B)), the fuel burning operations 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. 2. (40 CFR 60.43c(c)), no owner or operator of an affected facility that can combust oil and has a heat input capacity of 8.7 MW (30 million BTU/hr) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent 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. 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.
B.14	**Equipment/Control Device ID:** Fuel Combustion Sources (Fuel Oil Only) (40 CFR 60 Subpart Dc) Fuel oil burning sources greater than or equal to 10 million BTU/hr and constructed after June 9, 1989, no owner/operator that combusts oil shall combust oil that contains greater than 0.5 weight percent sulfur. The SO_2 fuel oil sulfur limits apply at all times, including periods of startup, shutdown, and malfunction. Fuel supplier certification shall include the following information: 1. The name of the oil supplier; 2. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c; and 3. The sulfur content or maximum sulfur content of the oil. Records of these certifications shall be kept on site. Reports shall be submitted every six-month period. Reports shall be submitted in a timely manner. Semiannual reports are due January 30th and July 30th each year. 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.
B.15	**Equipment/Control Device ID:** Fuel Burning Combustion Sources subject to 40 CFR 60 Subpart Dc (40 CFR 60 Subpart Dc) The owner or operator of each boiler shall record and maintain records of the amounts and types of each fuel combusted during each calendar month or the owner or operator may elect to record and maintain records of the total amount of each fuel delivered to the property during each calendar month. The report shall indicate whether the amounts are based on fuel combusted or fuel delivered. These records shall be maintained on site.

B. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

<table>
<tr><th>Condition Number</th><th>Condition</th></tr>
<tr><td>B.16</td><td>Emission Unit ID: Fuel Combustion Sources (All)

(S.C. Regulation 61-62.5, Standard No. 5.2, Section IV) For sources where an existing burner assembly is replaced, the burner assembly shall be replaced with a low NO_X burner assembly or equivalent technology capable of achieving a 30 percent reduction from uncontrolled NO_X emission levels based upon manufacturer's specifications. An exemption from this requirement shall be granted when a single burner assembly is being replaced in a source with multiple burners due to non-routine maintenance.

(S.C. Regulation 61-62.5, Standard No. 5.2, Sections IV and V) The owner/operator shall notify and register the burner assembly replacement with the Department, in writing, within 7 days of replacing the existing burner assembly. Notification will be provided on the Department's Notification For Low NO_x Burner Replacement for South Carolina Oxides of Nitrogen (NO_x) Control Guidelines Form D-2935. Those sources that wish to receive an emission reduction credit for the control device will be required to submit a construction permit application. Those sources requesting an alternative control methodology must receive written approval prior to burner replacement.</td></tr>
<tr><td>B.17</td><td>Equipment/Control Device ID: Fuel Combustion Sources (All)

(S. C. Regulation 61-62.5, Standard No. 5.2) Any boiler or water heater 10 million BTU/hr or greater constructed after June 25, 2004 is subject to the following emission limitations:

<table>
<tr><th>Source Type</th><th>Control Technology and/or Emission Limit</th></tr>
<tr><td>Natural gas or propane fired Boilers and Water Heaters ≥ 10 million BTU/hr and < 100 million BTU/hr</td><td>Low NO_X Burners or equivalent technology capable of achieving 30 ppmv @ 3% O_2 Dry (0.036 lb/mmBTU)</td></tr>
<tr><td>Distillate oil fired Boilers and Water Heaters ≥ 10 million BTU/hr and < 100 million BTU/hr</td><td>Low NO_X Burners or equivalent technology capable of achieving 0.15 lb/mmBTU</td></tr>
<tr><td>Residual oil fired Boilers and Water Heaters ≥ 10 million BTU/hr and < 100 million BTU/hr</td><td>Low NO_X Burners or equivalent technology capable of achieving 0.3 lb/mmBTU</td></tr>
</table>
Any fuel combustion source 10 million BTU/hr or greater rated input capacity constructed after June 25, 2004 are subject to the following emission limitations:

<table>
<tr><th>Source Type</th><th>Control Technology and/or Emission Limit</th></tr>
<tr><td>Fuel Combustion Sources Not Otherwise Specified (Examples include but are not limited to process heaters not meeting the definition of "boiler" in Regulation 61-62.1 Section I, dryers, furnaces, ovens, duct burners, incinerators, and smelters)</td><td>Low-NOX burners or equivalent technology capable of achieving 30 percent reduction from uncontrolled levels.</td></tr>
</table>
Unless otherwise noted, all emission limits are based on monthly averages.

(S.C. Regulation 61-62.5, Standard No. 5.2, Section VI) The owner/operator of a subject combustion source shall develop a tune-up plan and perform tune-ups every two years in accordance with manufacturer's specifications or with good engineering practices from start-up of operation. All tune-up records are required to be maintained on site.</td></tr>
</table>

B. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Condition
B.18	**Equipment/Control Device ID:** Textile Operations, Directly Heated Dryers, Storage Tanks, Generators (S.C. Regulation 61-62.5, Standard No. 4, Section IX) Visible emissions (including fugitive emissions): 1. Where construction or modification began after December 31, 1985, shall not exhibit an opacity greater than 20%. 2. Where construction or modification began on or before December 31, 1985, shall not exhibit an opacity greater than 40%.
B.19	**Equipment/Control Device ID:** Textile Operations (S.C. Regulation 61-62.5, Standard No. 4, Section VIII) 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 $E = (F)\ 4.10P^{0.67}$ and For process weight rates greater than 30 tons per hour $E = (F)\ 55.0P^{0.11} - 40$ Where E = the allowable emission rate in pounds per hour P = process weight rate in tons per hour F = effect factor from Table B in S.C. Regulation 61-62.5, Standard No. 4
B.20	**Equipment/Control Device ID:** Fugitive Particulate Matter Fugitive particulate matter (PM) emissions from material handling, process equipment, control equipment, or storage piles will be minimized to the maximum extent possible. This will include proper maintenance of the control system such as scheduled inspections, replacement of damaged or worn parts, etc. Fugitive emissions from dust buildup will be controlled by proper housekeeping and/or wet suppression.
B.21	**Equipment/Control Device ID**: Polymeric Coating Operations Coating operations and any onsite coating mix preparation equipment used to prepare coatings for the polymeric coating of supporting substrates sources are applicable to New Source Performance Standards (NSPS), 40 CFR 60 Subpart A, General Conditions and Subpart VVV, Polymeric Coating of Supporting Substrates, and S.C. Regulation 61-62.60 Subparts A and Subpart VVV, Polymeric Coating of Supporting Substrates, as applicable. These sources shall comply with all applicable requirements of these Subpart A and VVV.
B.22	**Equipment/Control Device ID:** Polymeric Coating Operations (40 CFR 60.7 Notification) The owner or operator shall provide the following: A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 60.14(e) This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Department may request additional relevant information subsequent to this notice.
B.23	**Equipment/Control Device ID:** Polymeric Coating Operations (40 CFR 60.744(b) Monitoring Requirements) The owner or operator of an affected facility that uses less than 95 Mg of VOC per year shall: 1. Make semiannual estimates (maintain on-site) of the projected annual amount of VOC to be used for the manufacture of polymeric coated substrate at the affected coating operation in that year. 2. Maintain on-site records of actual VOC use.

B. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Condition
B.24	**Equipment/Control Device ID:** Polymeric Coating Operations (40 CFR 60.747(b) Reporting And Recordkeeping Requirements) The owner or operator of an affected facility that uses less than 95 Mg of VOC in the first year of operation shall submit to the Department, actual VOC use records at the end of the initial year. Subsequent records of actual VOC use shall be maintained on-site. (40 CFR 60.747(c) Reporting And Recordkeeping Requirements) The owner or operator of an affected facility initially using less than 95 Mg of VOC per year shall: 1. Record semiannual estimates of projected VOC use and record actual 12-month VOC use. 2. Report the first semiannual estimate in which projected annual VOC use exceeds the applicable cutoff. a. Report the first 12-month period in which the actual VOC use exceeds the applicable cutoff.
B.25	**Equipment/Control Device ID:** Generators Emergency power generators have been determined to be exempt from construction permitting requirements in accordance with South Carolina Regulation 61-62.1 Section II(B)(2)(f). Emergency generators shall still comply with the requirements of all applicable regulations including but not limited to the New Source Performance Standard (NSPS) 40 CFR 60 Subparts A (General Provisions); IIII (Stationary Compression Ignition Internal Combustion Engines); and National Emission Standards for Hazardous Air Pollutants (NESHAP).
B.26	**Equipment/Control Device ID:** Facility Wide The sources covered under this general conditional major operating permit have agreed to Federally enforceable operating limitations to limit the potential to emit to less than the major source thresholds of 100 tons of emissions per year of each criteria pollutant, less than 100,000 tons per year of greenhouse gases (GHG – mass basis and CO_2e), less than 10 tons per year of any single HAP emission and less than 25 tons per year for all combined HAP emissions. Compliance with these limitations will be demonstrated by monitoring, recordkeeping, and reporting twelve-month rolling sums as indicated below. **Facilities with the Potential to Emit above the Major Source from Combustion Sources shall maintain the following:** 1. Records of monthly fuel usage of fuel oil (in gallons), including fuel oil grade and supplier certification of sulfur content of the fuel oil. 2. Records of monthly fuel usage of natural gas (in standard cubic feet) and propane (in gallons), or alternative fuel approved by the Department. 3. Records of monthly generator(s) usage, including an explanation of how each generator was used, and a twelve month rolling sum of hours of operation. Generators do not need to keep fuel usage records. Only certification records for the sulfur content of the fuel used. 4. A twelve month rolling sum of the SO_2 and NO_X emissions calculated using the textile reporting sheets for (boilers, space heaters, generators, dryers, etc). Any alternative method must be approved by the Department. The owner/operator shall submit annual reports of required monthly monitoring and recordkeeping information and all twelve month rolling sums. **Facilities with the Potential to Emit above the Major Source Thresholds from Dyeing, Coating, Finishing, Slashing and/or Printing Operations shall maintain the following:** A twelve month rolling sum of HAPS and/or VOC emissions calculated using the textile reporting sheets. Any alternative method must be approved by the Department. The owner/operator shall submit annual reports of required monthly monitoring and recordkeeping information and all twelve month rolling sums. **Facilities with the Potential to Emit above the Major Source Thresholds from Face Finishing Operations shall:** Operate control devices in accordance with the conditions outlined in this permit.

C. OPERATIONAL FLEXIBILITY

Condition Number	Condition
C.1	The facility may undertake minor alterations without a construction permit, or without revising or reopening the operating permit unless otherwise specified by any State or Federal requirement. These minor alterations must meet the criteria and procedures as prescribed in this condition. This flexibility only covers exempt sources and existing permitted sources. The owner/operator may be subject to possible enforcement if the activity is found to be inconsistent with the permit flexibility conditions. (I) Permit Flexibility Criteria for Existing and Exempt Sources 1. The activity will not result in emissions that will exceed any limit in this permit. 2. The activity does not trigger a new regulation or regulatory requirement. See exceptions under (I)7 of this section. 3. The activity does not result in a change in a permit term, condition, or limit. 4. The activity does not result in a new permit term, condition, or limit. 5. The activity does not result in emissions that would potentially subject the facility to the Title V operating permit program. 6. The activity does not trigger S.C. Regulation 61-62.5, Standards No. 7 and No. 7.1 or synthetic minor permitting requirements. 7. The activity conducted on the existing permitted source does not meet the definition of new source, modification or reconstruction under 40 CFR Part 60, 61 or 63. This criteria does not apply to new/existing exempt sources under S.C. Regulation 61-62.1 II.B.2 or the BAQ published exempt list. Although exempt from construction permitting, sources subject to federal air rules must meet all applicable requirements. Generators shall comply with the requirements of all applicable regulations including but not limited to New Source Performance Standards (NSPS) 40 CFR 60 Subparts A (General Provisions); IIII (Stationary Compression Ignition Internal Combustion Engines); and JJJJ (Stationary Spark Ignition Internal Combustion Engines); and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants (NESHAP), Subparts A (General Provisions) and ZZZZ (NESHAP for Stationary Reciprocating Internal Combustion Engines). Existing affected sources shall comply with the applicable provisions by the compliance date specified in the applicable Subpart. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted. 8. Compliance with S.C. Regulations 61-62.5 Standards No. 2 (Ambient Air Quality Standards), No. 7 (PSD) and No. 8 (Toxic Air Pollutants) is not affected. 9. Any activity exempted in S.C. Regulation 61-62.1 Section II.B.2 or the BAQ published exempt source list. Case by case exemptions described in Section II will require prior written approval. (II) Modeling Flexibility Changes that impact an air dispersion modeling demonstration, but are otherwise allowed under the permit flexibility condition, shall be allowed provided: 1. Updated air dispersion modeling demonstration is conducted prior to the source operating under the new operating scenario. A copy of the modeling results for the new operating scenario are kept on site and available for inspection. The Air dispersion model used must be BAQ approved. 2. The facility must submit a written request to modify the modeling demonstration within 3 business days of operating under the new operating scenario. The modeling demonstration shall include a description of the scenario, emission rates, modeling results, modeling files and a completed modeling information Form. This request shall be submitted to the Director of Engineering Services. (III) Record Keeping As part of this permit flexibility procedure, the facility shall keep an on-site implementation log (OSIL) (written or electronic), to document all changes made under the procedure. The OSIL will be kept with the facility's air permit and made available for inspection. The OSIL shall provide detailed information supporting the changes made under this procedure. At a minimum all of the following items shall be included in the OSIL: 1. A brief description of the activity and how it meets the criteria listed in this condition. Include impacted equipment identification numbers, operating permit identification unit, and stack identification. 2. The date the activity occurred.

C. OPERATIONAL FLEXIBILITY

Condition Number	Condition
	3. A demonstration that the activity did not trigger any new regulations, standards or requirements. 4. A demonstration that the activity did not result in a change in any existing permit term, condition or limit; and did not result in a need for a new permit term, condition or limit. 5. Emissions calculations for all regulated air pollutants resulting from the activity and demonstration that when added to the existing emissions all permit limits will be met. This should include the increase and the facility-wide emissions totals from the activity. 6. A list of exempt sources will be kept with the OSIL and only the information required by the regulation for the exemption shall be included with the OSIL. (IV) Reporting Reports of activities conducted under this permit flexibility condition shall be submitted every 5 years from the permit effective date and every 5 years thereafter, to the Director of the Engineering Services. If no changes were made, no report is required. See modeling flexibility section of this condition for modeling demonstration reporting requirements.
C.2	At the end of every calendar year, the permit holder shall review this permit to determine if any changes have been made to any equipment or processes covered by the permit. If there have been changes these should be included in the facility's onsite implementation log (OSIL), along with supporting documentation explaining what has changed. If there have been no changes this should be recorded and kept on site.

D. MODELING REQUIREMENTS

Condition Number	Condition
D.1	Air dispersion modeling analysis or other information has demonstrated that emissions from this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air quality 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 - Modeled Emission Rates of this permit. Higher emission rates may be administratively incorporated into Attachment - Modeled Emission Rates 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 - Modeled Emission Rates, not to exceed the pollutant limitations of this conditional major operating permit. Should the facility wish to increase the emission rates listed in Attachment - Modeled Emission Rates, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified above. This is a State Only enforceable requirement.

E. NESHAP PERIODIC REPORTING SCHEDULE SUMMARY

NESHAP Part	NESHAP Subpart	Compliance Monitoring Report Submittal Frequency	Reporting Period	Report Due Date
63	JJJJJJ	Biennial[4]	Every 2 Years	March 1

E. NESHAP PERIODIC REPORTING SCHEDULE SUMMARY

63	ZZZZ (Non Emergency Generators)	Semi-Annual Annual	January 1 through June 30 July 1 through December 31 January 1 through Dec 31	For semiannual reports, first report postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date. For annual reports, first report postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date.

Note:

1. This table summarizes only the periodic compliance reporting schedule. Additional reports may be required. See specific NESHAP Subpart for additional reporting requirements and associated schedule.
2. This reporting schedule does not supersede any other reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, and/or 40 CFR Part 63.
3. Emergency generators are not required to submit reports unless they meet the criteria under 40 CFR 63.6650(h). Non-emergency engines are required to submit reports.
4. Each annual compliance certification report must be prepared by March 1 of the year immediately following the reporting period and kept in a readily-accessible location for inspector review. If a deviation has occurred during the year, each annual compliance report must be submitted by March 15 of the year immediately following the reporting period. If the boiler is only subject to biennial or five-year tune-ups, a biennial or five-year compliance report may be prepared.

F. NESHAP - CONDITIONS

Condition Number	Condition
F.1	All NESHAP notifications and reports shall be sent to the Manager of the Air Toxics Section, South Carolina Department of Health and Environmental Control - Bureau of Air Quality.
F.2	All NESHAP notifications and the cover letter to periodic reports shall be sent to the United States Environmental Protection Agency (US EPA) at the following address: **US EPA, Region 4** **Air, Pesticides and Toxics Management Division** **61 Forsyth Street** **Atlanta, GA 30303**
F.3	(Boilers) This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subpart A, General Provisions and Subpart JJJJJJ, National Emission Standards for Area Sources: Industrial/Commercial/Institutional Boilers. Existing affected sources shall be in compliance with the requirements of these Subparts on the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.
F.4	In accordance with 40 CFR 63.11195the source is not subject to 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and JJJJJJ – Industrial, Commercial, and Institutional Boilers Area Sources if the gas fired boiler, as defined in 40 CFR 63.11237, burns natural gas as primary fuel and burns fuel oil only during natural gas curtailment, gas supply emergency, or periodic testing on liquid fuel. Periodic testing on liquid fuel shall not exceed a combined total of 48 hours during any calendar year. If the gas fired boiler uses fuel oil outside of natural gas curtailment, gas supply emergency, or periodic testing on liquid fuel as defined in 40 CFR 63.11237, the boiler will be subject to Subpart JJJJJJ.

F. NESHAP - CONDITIONS

Condition Number	Condition
F.5	For a facility that has requested a federally enforceable permit condition to classify a boiler(s) as a "Limited Use Boiler" as defined in Subpart 6J, Section 63.11237. If the request for "Limited Use Boiler" designation is made before the compliance date, then upon the compliance date of this regulation, per Section 63.11225 (c)(2)(vi) of the Subpart, the facility must limit the average annual capacity factor to less than or equal to 10 percent and keep records of fuel use for the days the boiler is in operation. If the request for "Limited Use Boiler" designation is made after the compliance date, then upon date of the request, the facility shall complete an Energy Assessment per Section 63.11237 and per Section 63.11225 (c)(2)(vi), the facility must limit the average annual capacity factor to less than or equal to 10 percent and keep records of fuel use for the days the boiler is in operation. (S.C. Regulation 61-62.70.6.a.3) Monitoring And Related Recordkeeping And Reporting Requirements, annual capacity factor shall be defined as the ratio between the actual heat input to a steam generating unit during a period of 12 consecutive calendar months and the potential heat input to the steam generating unit had it been operated for 8,760 hours during that 12-month period at the maximum design heat input capacity. The annual capacity factor shall be determined at the end of each calendar month. The average annual capacity factor shall be defined as the 12-month rolling average of the annual capacity factors and shall be determined at the end of each calendar month. Records of fuel usage, the monthly calculated annual capacity factor, along with the average annual capacity factor shall be kept on-site.
F.6	(Emergency Generators) This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subpart A, General Provisions and Subpart ZZZZ National Emission Standards for Reciprocating Internal Combustion Engines. Existing affected sources shall be in compliance with the requirements of these Subparts on the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.

G. PERIODIC REPORTING SCHEDULE

Compliance Monitoring Report Submittal Frequency	Reporting Period (Begins on the effective date of the permit)	Report Due Date
Semiannual	January-June April-September July-December October-March	July 30 October 30 January 30 April 30
Annual	January-December April-March July-June October-September	January 30 April 30 July 30 October 30
Note: This reporting schedule does not supersede any federal reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, and 40 CFR Part 63. All federal reports must meet the reporting time frames specified in the federal standard unless the Department or EPA approves a change.		

H. REPORTING CONDITIONS

Condition Number	Condition
H.1	Reporting required in this permit, shall be submitted in a timely manner as directed in the Periodic Reporting Schedule of this permit.
H.2	All reports and notifications required under this permit shall be submitted to the person indicated in the specific condition at the following address: **2600 Bull Street** **Columbia, SC 29201** The contact information for the local EQC Regional office can be found at: http://www.scdhec.gov
H.3	Unless elsewhere specified within this permit, all reports required under this permit shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality.
H.4	(S.C. Regulation 61-62.1, Section II.J) For sources not required to have continuous emissions monitors, 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 Department's local Environmental Quality Control Regional office within 24 hours after the beginning of the occurrence. The owner/operator shall also submit a written report within 30 days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality and shall include at a minimum, the following: 1. The identity of the stack and/or emission point where the excess emissions occurred; 2. The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions; 3. The time and duration of excess emissions; 4. The identity of the equipment causing the excess emissions; 5. The nature and cause of such excess emissions; 6. The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction; 7. The steps taken to limit the excess emissions; and, 8. Documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated, to the maximum extent practicable, in a manner consistent with good practice for minimizing emissions.

I. GENERAL CONDITIONS

Condition Number	Condition
I.1	The owner or operator shall comply with S.C. Regulation 61-62.2 "Prohibition of Open Burning."
I.2	The owner or operator shall comply with S.C. Regulation 61-62.3 "Air Pollution Episodes."
I.3	The owner or operator shall comply with S.C. Regulation 61-62.4 "Hazardous Air Pollution Conditions."
I.4	This permit only covers emission units and control equipment while physically present at the indicated facility. Unless the permit specifically provides for the equipment relocation, this permit is void for an item of equipment on the day it is removed from the permitted facility, notwithstanding the expiration date specified on the permit.
I.5	The permittee shall pay permit fees to the Department in accordance with the requirements of S.C. Regulation 61-30, Environmental Protection Fees.
I.6	In the event of an emergency, as defined in S.C. Regulation 61-62.1, Section II.L, the owner or operator shall demonstrate the affirmative defense of an emergency through properly signed, contemporaneous operating logs, and other relevant evidence that verify: 1. An emergency occurred, and the owner or operator can identify the cause(s) of the emergency; 2. The permitted source was at the time the emergency occurred being properly operated; 3. During the period of the emergency, the owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and 4. The owner or operator gave a verbal notification of the emergency to the Department within 24 hours of the time when emission limitations were exceeded, followed by a written report within 30 days. The written report shall include, at a minimum, the information required by S.C. Regulation 61-62.1, Section II.J.1.c.i through viii. The written report shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. In any enforcement action, the owner or operator seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency, or upset provision contained in any applicable requirement.
I.7	(S.C. Regulation 61-62.1, Section II.O) Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Department or an authorized representative to perform the following: 1. Enter the facility where emissions-related activity is conducted, or where records must be kept under the conditions of the permit. 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. 3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit. 4. As authorized by the Federal Clean Air Act and/or the S.C. Pollution Control Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

J. PERMIT RENEWAL, MODIFICATION, EXPIRATION AND TRANSFER OF OWNERSHIP

Condition Number	Condition
J.1	This permit may be reopened by the Department for cause or to include any new standard or regulation which becomes applicable to a source during the life of the permit.
J.2	This permit may be modified by the Department for cause, to include any applicable requirement or to add or alter a permit's expiration date.
J.3	(S.C. Regulation 61-62.1, Section II.M) Within 30 days of the transfer of ownership/operation of a facility, the current permit holder and prospective new owner/operator shall submit to the Director of Engineering Services a written request for transfer of the source operating or construction permits. The written request for transfer of the source operating or construction permit shall include any changes pertaining to the facility name and mailing address; the name, mailing address, and telephone number of the owner/operator for the facility; and any proposed changes to the permitted activities of the source. Transfer of the operating or construction permits will be effective upon written approval by the Department.