S.C. Department of Health and Environmental Control

Bureau of Air Quality
General Conditional Major Operating Permit

Fuel Combustion 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 valid construction permits, and the plans, specifications and other information submitted in the Permit application. 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: **March 30, 2011**
Effective Date: **April 1, 2011**

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

RECORD OF REVISIONS	
Date	**Description of Change**
08/09/2011	Updated permit based on changes to S.C. Regulation 61-62.1, Section II and S.C. Regulation 61-62.5, Standard No. 1. Clarified reporting requirements and corrected some typographical errors
06/29/2012	Update Emission Limitations to include Greenhouse Gas Federally enforceable limitation.
02/22/2013	Added RICE-Spark Ignition to 4.A.7. Added NSPS 40CFR 60 Subparts A, IIII, and JJJJ cover language. Added NESHAP 40 CFR 63 Subparts ZZZZ and JJJJJJ.
03/24/2014	Permit template updated and the expiration date has been removed. NESHAP 40 CFR 63 Subpart ZZZZ Periodic Reporting Schedule Summary updated.
10/06/2014	Permit template updated to reflect recent regulation revisions.
02/06/2015	Revised condition C.1, C.2 and D.1 to be consistent with other permits. Updated NESHAP Reporting Due Dates Table.
09/26/2016	Updated Logo and font to meet agency standards Removed A.1 item number 3 Add propane exception to condition B.1 Added propane and natural gas exception to condition B.2 Combined B.4 and B.5 and then renumbered rest of Section B Updated 5.2 Conditions for new and existing sources based on regulatory changes (Conditions B.6 and B.7) Moved NESHAP Sections after Section B and relabeled following sections Updated Notes and first two NESHAP conditions Updated Permit Flexibility Condition for clarification Added conditions D.7 and renumbered rest of conditions in this section. Updated condition D.10 to mirror the regulation.

A. APPLICABILITY

Condition Number	Condition
A.1	This general conditional major permit applies to fuel combustion operations meeting the following criteria: 1. The facility is permitted for the following sources: boilers, generators (emergency and non-emergency), fuel storage tanks, ethylene oxide sterilizers (if located at a hospital), sources exempt as outlined in S.C. Regulation 61-62.1, Sections II.A.1.b and II.B, and other sources as approved by the Department. 2. The maximum size for a single boiler at the facility is limited to 100 million BTU/hr rated input capacity. 3. Fuel 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 SC 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.

B. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
B.1	**Equipment:** All Boilers (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 or operator of fuel burning sources except natural gas and propane 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. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td>B.2</td><td>Equipment: All boilers 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. (SC Regulation 61-62.5, Standard No. 1) 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 or 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 or operator of fuel burning sources except propane and 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.</td></tr>
<tr><td>B.3</td><td>Equipment: All storage tanks, emergency generators, non-emergency generators, ethylene oxide sterilizers, and other sources not specified elsewhere

(SC Regulation 61-62.5, Standard No. 4, Section IX) Visible emissions (including fugitive emissions) from these sources are subject to the following emission limitations:
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%.</td></tr>
<tr><td>B.4</td><td>Equipment: All Boilers

(S.C. Regulation 61-62.5, Standard No. 1) The maximum allowable discharge:

<table>
<tr><th>Pollutant</th><th>Emission Limit</th></tr>
<tr><td>PM</td><td>0.6 pounds per million BTU input</td></tr>
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</table>

B. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td></td><td>
<table>
<tr><td>PM</td><td>0.8 pounds per million BTU input*</td></tr>
<tr><td>SO_2</td><td>2.3 pounds per million BTU input</td></tr>
</table>
*Fuel burning sources 10 million BTU/hr heat input and smaller constructed prior to February 11, 1971.
</td></tr>
<tr><td>B.5</td><td>
Equipment: All Boilers with a heat input capacity greater than or equal to 10 million BTU/hr and were Construction, Reconstruction or Modification after June 9, 1989

(40 CFR 60, Subpart Dc) 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. The SO_2 fuel oil sulfur limits apply at all times, including periods of startup, shutdown, and malfunction.

For sources that burn fuel oil, 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 or operator that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

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 to amounts are based on fuel combusted or fuel delivered.
</td></tr>
<tr><td>B.6</td><td>
Equipment: (SC Regulation 61-62.5, Standard No. 5.2) Constructed after June 25, 2004

Non-Exempt boilers are subject to the following emission limitations:
<table>
<tr><th>Source Type</th><th>Emission Limit</th></tr>
<tr><td>Natural gas and/or propane fired Boilers ≥10 million BTU/hr and <100 million BTU/hr</td><td>Low NO_X Burners or equivalent technology, shall achieve 0.036 lb/million BTU</td></tr>
<tr><td>Distillate oil fired Boilers ≥10 million BTU/hr and <100 million BTU/hr</td><td>Low NO_X Burners or equivalent technology, shall achieve 0.15 lb/million BTU</td></tr>
<tr><td>Residual oil fired Boilers ≥10 million BTU/hr and <100 million BTU/hr</td><td>Low NO_X Burners or equivalent technology, shall achieve 0.3 lb/million BTU</td></tr>
</table>
</td></tr>
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B. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td></td><td>Non-emergency generators are subject to the following emission limitations:

<table><tr><th>Source Type</th><th>Emission Limit</th></tr><tr><td>Compression Ignition</td><td>Timing Retard ≤4° + Turbocharger with Intercooler or equivalent technology, shall achieve 490 ppmv at 15% O_2 (7.64 gm/bhp-hr)</td></tr><tr><td>Spark Ignition</td><td>Lean Burn Technology or equivalent technology, shall achieve 1.0 gm/bhp-hr</td></tr></table>
Unless otherwise noted, all emission limits are based on monthly averages.

Owners or operators of sources that are subject to the emission limits listed above shall perform tune-ups every twenty-four (24) months in accordance with manufacturer's specifications or with good engineering practices. The first tune-up shall be conducted no more than twenty-four (24) months from replacement of a burner assembly for affected existing sources. Each subsequent tune-up shall be conducted no more than twenty-four (24) months after the previous tune-up.

All tune-up records are required to be maintained on site and available for inspection by the Department for a period of five (5) years from the date generated.

The owner or operator shall develop and retain a tune-up plan on file.

(S.C. Regulation 61-62.5, Standard No. 5.2, Section IV) The owner or operator of sources that are subject to the emission limits listed above shall record monthly the amounts and types of each fuel combusted by the affected sources and maintain these records on site.

The owner or operator of sources that are subject to the emission limits listed above shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected source; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.</td></tr>
<tr><td>B.7</td><td>Equipment: Any sources emitting NOx from fuel combustion installed prior to June 25, 2004

(S. C. Regulation 61-62.5, Standard No. 5.2) Any existing source where a burner assembly is replaced with another burner assembly after June 25, 2004, regardless of size or age of the burner assembly to be replaced shall be replaced with a low NO_X burner assembly or equivalent technology, and shall achieve 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 an existing source with multiple burners due to non-routine maintenance. The</td></tr>
</table>

B. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	replacement of individual components such as burner heads, nozzles, or windboxes does not trigger this requirement. The owner or 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 *Low NO_x Burner Assembly Replacement Notification* Form D-2935. Those affected sources that wish to receive an emission reduction credit for the control device will be required to submit a construction permit application. Those affected sources requesting an alternative control methodology must receive written approval prior to burner replacement. The owner or operator shall perform tune-ups every twenty-four (24) months in accordance with manufacturer's specifications or with good engineering practices. The first tune-up shall be conducted no more than twenty-four (24) months from replacement of a burner assembly for affected existing sources. Each subsequent tune-up shall be conducted no more than twenty-four (24) months after the previous tune-up. All tune-up records are required to be maintained on site and available for inspection by the Department for a period of five (5) years from the date generated. The owner or operator shall develop and retain a tune-up plan on file.
B.8	**Equipment:** All Sources (including exempt sources) The sources covered under this general conditional major operating have agreed to Federally enforceable operating limitations to limit the potential to emit to less than 100 tons of emissions per year of each criteria pollutant, 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 and reporting twelve-month rolling sums as indicated below. The owner or operator 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; excluding generators. 2. Records of monthly fuel usage of natural gas (in standard cubic feet) and propane (in gallons), or alternative fuel approved by the Department; excluding generators. 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, for all sources (boilers, space heaters, generators, etc).

B. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	The owner or operator shall submit semiannual reports of required monthly monitoring information and all twelve month rolling sums.
B.9	(SC Regulation 61-62.1, Section I) Constituents for used spec oil shall not exceed those defined below: i. Arsenic – 5 ppm maximum ii. Cadmium – 2 ppm maximum iii. Chromium – 10 ppm maximum iv. Lead – 100 ppm maximum v. Nickel – 120 ppm maximum vi. Total halogens – 1,000 ppm maximum (non-hazardous waste) vii. Flash Point – 100 °F (37.8 °C) minimum Facilities that have the authorization to burn used spec oil as fuel shall maintain records of the following information: 1. For each shipment, the date and total amount of used specification oil received. 2. For on site generated used specification oil, the usage and dates. 3. The waste analysis showing total arsenic, total cadmium, total chromium, total lead, total nickel, total halogens, percent sulfur, flash point, and BTU content. The waste analysis shall be performed only on the initial shipment of oil unless the oil becomes inconsistent in composition or is received from another supplier.
B.10	All sources subject to 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 shall comply with all applicable parts of Subparts A and Dc.
B.11	New Source Performance Standard (NSPS 40 CFR 60), Subpart A, General Conditions and Subpart IIII, Stationary Compression Ignition Internal Combustion Engines, applies to compression ignition generators constructed (ordered) after July 11, 2005, and manufactured after April 1, 2006 or fire pumps after July 1, 2006 or modified or reconstructed after July 11, 2005. The permittee shall comply with all applicable parts of Subparts A and IIII.
B.12	New Source Performance Standard (NSPS 40 CFR 60), Subpart A, General Conditions and Subpart JJJJ, Stationary Spark Ignition Internal Combustion Engines, applies to spark ignition generators constructed (ordered) after June 12, 2006 that were and manufactured on or after July 1, 2007 if greater than or equal to 500 HP, manufactured on or after July 1, 2008 if less than 500 HP, manufactured on or after January 1, 2009 if an emergency generator greater than 25 HP, or manufactured on or after January 1, 2008 if lean burn engines greater than 500 HP and less than 1350 HP, or engines that have been modified or reconstructed after June 12, 2006. The permittee shall comply with all applicable parts of Subparts A and JJJJ.

C. NESHAP PERIODIC REPORTING SCHEDULE SUMMARY

NESHAP Part	NESHAP Subpart	Compliance Monitoring Report Submittal Frequency	Reporting Period	Report Due Date
63	ZZZZ (Non-Emergency Generators)	Semi-Annual	January 1 through June 30 July 1 through December 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.
	ZZZZ (Emergency Generators see note 3 and 4)	N/A	N/A	N/A
63	WWWWW	None required	N/A	N/A
63	JJJJJJ	Biennial or Five-year[5]	Biennial or Five-Year	March 1

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. The MACT reporting schedule may be adjusted to coincide with the permit's reporting schedule with prior approval from the Department in accordance with §63.10.a.5. This request may be made 1 year after the compliance date for the associated MACT standard.
3. Facilities with emergency generators are not required to submit reports. Only non-emergency engines are required to submit semiannual reports.
4. Facilities with emergency engines shall comply with the operations limits specified in 40 CFR 63.6640(f).
5. 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, you may prepare only a biennial or five-year compliance certification report.

D. NESHAP - CONDITIONS

Condition Number	Condition
D.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.

D. NESHAP - CONDITIONS

Condition Number	Condition
D.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 or electronically as required by the specific subpart: **US EPA, Region 4** **Air, Pesticides and Toxics Management Division** **61 Forsyth Street SW** **Atlanta, GA 30303**
ALL GENERATORS CONSTRUCTED BEFORE JUNE 12, 2006	
D.3	This facility is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and NESHAP for Stationary Reciprocating Internal Combustion Engines. Existing affected sources shall comply with the applicable provisions by the compliance date specified in Subpart ZZZZ. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.
ALL GENERATORS CONSTRUCTED AFTER JUNE 12, 2006	
D.4	The engines have been defined as affected sources in accordance with 40 CFR 63 Subpart ZZZZ. In accordance with 40 CFR 63.6590(c), an affected source that is a new or reconstructed stationary RICE located at an area source must meet the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart IIII, for compression ignition engines or 40 CFR 60 Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63 Subpart ZZZZ.
ETHYLENE OXIDE STERILIZERS LOCATED AT HOSPITALS	
D.5	Hospitals that have ethylene oxide sterilizers are subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A, General Provisions, and WWWWW, National Emission Standards For Hospital Ethylene Oxide Sterilizers as applicable.
D.6	In accordance with 40 CFR 63, Section 63.10390 and SC Regulation 61-62.63, the facility must sterilize full loads of items having a common aeration time except under medically necessary circumstances as defined in 40 CFR 63.10448.
D.7	In accordance with 40 CFR 63, Section 63.10400 and SC Regulation 61-62.63, except as provided in paragraphs (1) and (2) below, the facility must demonstrate initial compliance with the management practice standard in 40 CFR 63.10390 by submitting an Initial Notification of Compliance Status certifying that you are sterilizing full loads of items having a common aeration time except under medically necessary circumstances. 1. If the facility operate your sterilization unit(s) with an air pollution control device pursuant to a State or local regulation, you may demonstrate initial compliance with 40 CFR 63.10390 by submitting an Initial Notification of Compliance Status certifying that you are operating the sterilization unit in accordance with your State or local regulation and following control device manufacturer's recommended procedures. 2. If the facility operate your sterilization unit(s) with an air pollution control device but are not subject to any State or local regulation, you may demonstrate initial compliance with 40 CFR 63.10390 by submitting an Initial Notification of Compliance Status certifying that you are

D. NESHAP - CONDITIONS

Condition Number	Condition
	venting the ethylene oxide emissions from each sterilization unit to an add-on air pollution control device. You must certify that you are operating the control device during all sterilization processes and in accordance with manufacturer's recommended procedures. In accordance with 40 CFR 63, Section 61.10402 and SC Regulation 61-62.3, You must demonstrate initial compliance with 40 CFR 63.10390 upon startup or no later than 180 calendar days after your compliance date, whichever is later.
D.8	In accordance with 40 CFR 63, Section 63.10420 and SC Regulation 61-62.63, for each sterilization unit not equipped with an air pollution control device, the facility must demonstrate continuous compliance with the management practice standard in 40 CFR 63.10390 by recording the date and time of each sterilization cycle, whether each sterilization cycle contains a full load of items, and if not, a statement from a hospital central services staff, a hospital administrator, or a physician that it was medically necessary.
D.9	In accordance with 40 CFR 63, Section 63.10432 and SC Regulation 61-62.63, the facility must keep a copy of the submitted Initial Notification of Compliance Status and records required by 40 CFR 63.10420 for each sterilization unit not equipped with an air pollution control device.
D.10	In accordance with 40 CFR 63, Section 63.10434 and SC Regulation 61-62.63, your records must be in a form suitable and readily available for expeditious review. You must keep each record for 5 years following the date of each record. The facility must keep each record onsite for at least 2 years after the date of each record. The facility may keep the records offsite for the remaining 3 years.
VIRGIN NO. 2 FUEL OIL, VIRGIN DIESEL, USED SPECIFICATION OIL, OR BIODIESEL FIRED BOILERS	
D.10	This boiler is permitted to burn natural gas and 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 SC Regulation 61-62.1, Section I. However, in accordance with 40 CFR 63.11195(e), the 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 interruption, startups, 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 interruption, startups, or periodic testing on liquid fuel as defined in 40 CFR 63.11237, the boiler will be subject to Subpart JJJJJJ.
D.11	All boilers burning virgin No. 2 fuel oil, virgin diesel, used specification oil as defined in SC Regulation 61-62.1 Section I, or Biodiesel that meets ASTM D6751 are subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources. Affected sources shall comply with the applicable provisions by the compliance date specified in Subpart JJJJJJ. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.

E. PERMIT FLEXIBILITY

Condition Number	Conditions
E.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 or 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) Ambient Air Standards Demonstration Flexibility Changes that impact an ambient air standards demonstration (such as air dispersion modeling), but are otherwise allowed under the permit flexibility condition, shall be allowed provided: 1. Updated air dispersion modeling or other information demonstration is conducted prior to the source operating under the new operating scenario. A copy of these results for the new

E. PERMIT FLEXIBILITY

Condition Number	Conditions
	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 demonstration within 3 business days of operating under the new operating scenario. The demonstration shall include a description of the scenario, emission rates, modeling results, modeling files and a completed modeling information form and any other pertinent information relevant to the demonstration. 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. 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, unless no changes were made, from the permit effective date and every 5 years thereafter, to the Director of the Engineering Services. See ambient air standards demonstration flexibility section of this condition for modeling or other information demonstration reporting requirements.
E.2	In addition to the requirements in the flexibility condition (E.1), at the end of every calendar year but no later than January 31, the permit holder shall review this permit to determine if any changes outside those allowed in the flexibility condition (E.1) have been made to any equipment or processes covered by the permit. If there have been any changes these should be added to 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.

F. AMBIENT AIR STANDARDS REQUIREMENTS

Condition Number	Condition
F.1	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 this demonstration 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 - Emission Rates for Ambient Air Standards of this permit. Higher emission rates may be administratively incorporated into Attachment - Emission Rates for Ambient Air Standards 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 - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations of this permit. Should the facility wish to increase the emission rates listed in Attachment - Emission Rates for Ambient Air Standards, 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.

G. REPORTING CONDITIONS

Condition Number	Condition
G.1	Reporting required in this permit, shall be submitted in a timely manner. Semiannual reports are due January 30th and July 30th each year.
G.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**
G.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.

G. REPORTING CONDITIONS

Condition Number	Condition
G.4	(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.
G.5	(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 or 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.

H. GENERAL CONDITIONS

Condition Number	Condition
H.1	The owner or operator shall comply with S.C. Regulation 61-62.2 "Prohibition of Open Burning."
H.2	The owner or operator shall comply with S.C. Regulation 61-62.3 "Air Pollution Episodes."

H. GENERAL CONDITIONS

Condition Number	Condition
H.3	The owner or operator shall comply with S.C. Regulation 61-62.4 "Hazardous Air Pollution Conditions."
H.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.
H.5	The permittee shall pay permit fees to the Department in accordance with the requirements of S.C. Regulation 61-30, Environmental Protection Fees.
H.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.
H.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.
H.8	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.

H. GENERAL CONDITIONS

Condition Number	Condition
H.9	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.
H.10	(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 or 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 or 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.