



Bureau of Air Quality Synthetic Minor Construction Permit

**Corley Construction, LLC
1050 Wessinger Road
Columbia, South Carolina 29203
Richland County**

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 construction of this facility and the equipment specified herein in accordance with the plans, specifications, and other information submitted in the construction permit application received on 2/21/2017, as amended. 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 permit may be grounds for permit revocation.

The construction and subsequent operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

Permit Number: 1900-0286-CA
Issue Date: August 16, 2017

**Steve McCaslin, P. E., Director
Engineering Services Division
Bureau of Air Quality**

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A. PROJECT DESCRIPTION

Permission is hereby granted to construct a McPherson Systems M40E refractory lined air curtain incinerator with a rated capacity of 20 tons per hour. The unit will combust yard waste, land clearing and untreated wood waste. The blower will be operated by an electric engine.

B.1 EQUIPMENT

| Equipment ID | Equipment Description | Control Device ID | Emission Point ID |
|---------------------|--|--------------------------|--------------------------|
| Incinerator | Air Curtain Incinerator – McPherson Systems M40E refractory lined air curtain incinerator – 20 ton/hour capacity | None | S-1 |

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

| Condition Number | Conditions |
|-------------------------|--|
| C.1 | <p>Equipment ID: All</p> <p>(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.</p> |
| C.2 | <p>Equipment ID: Incinerator</p> <p>For any source test required under an applicable standard or permit condition, the owner, operator, or representative shall comply with S.C. Regulation 61-62.1, Section IV - Source Tests.</p> <p>Unless approved otherwise by the Department, the owner, operator, or representative shall ensure that source tests are conducted while the source is operating at the maximum expected production rate or other production rate or operating parameter which would result in the highest emissions for the pollutants being tested. Some sources may have to spike fuels or raw materials to avoid being subjected to a more restrictive feed or process rate. Any source test performed at a production rate less than the rated capacity may result in permit limits on emission rates, including limits on production if necessary.</p> <p>The owner or operator shall comply with any limits that result from conducting a source test at less</p> |

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| | <p>than rated capacity. A copy of the most recent Department issued source test summary letter, whether it imposes a limit or not, shall be maintained with the operating permit, for each source that is required to conduct a source test.</p> <p>Site-specific test plans and amendments, notifications, and source test reports shall be submitted to the Manager of the Source Evaluation Section, Bureau of Air Quality.</p> |
| C.3 | <p>Equipment ID: Incinerator</p> <p>This air curtain incinerator is subject to SC Regulation 61-62.5, Standard 3 Waste Combustion and Reduction as an air curtain incinerator. In accordance with SC Regulation 61-62.5, Standard 3, Section III(G), the unit shall meet the following requirements:</p> <ol style="list-style-type: none">1. Refractory lined pits shall be required;2. Onsite storage of debris to be incinerated shall be kept to a minimum. Material to be incinerated shall be incinerated within one week of storage unless otherwise approved by the Department.3. An operation and maintenance program shall be developed and adhered to at all times to ensure the proper operation of this facility;4. Good operation practices shall be exercised to minimize emissions from incineration. This shall include the wetting of ash prior to removal from the incinerator;5. Winds during the time of burning or ash removal must be away from any area in which the ambient air may be significantly affected by the smoke or ash from this operation if that area contains a public roadway or a residential, commercial, or industrial site;6. All ash shall be stored in compliance with the requirements of the South Carolina Solid Waste Management Regulations, 25A SC Code Ann. R.61-107.12;7. No burning shall take place if the air curtain is not operating properly or at its design air flow;8. The air curtain shall be used at all times that the pit contains burning permitted material except during start-up to get the fire ignited;9. The incinerator shall be located so as to maximize the distance to business and residential areas and shall be located at least 500 feet from any business or residence located on adjacent properties;10. Access roads and loader work areas shall be maintained in such a manner so as to minimize fugitive emissions. This shall include the use of water sprays, dust controlling chemicals (but not volatile organic compounds) or other Department approved dust suppression systems;11. Stacking rakes or similar devices shall be utilized on loader equipment when loaders are used to charge the pit in order to minimize dirt on the material to be burned; and Any change in location of the incinerator must have prior written approval from the Department. <p>(S.C. Regulation 61-62.5, Standard No. 3, Section IX) All incinerator operators shall be trained based on criteria contained in S.C. Regulation 61-62.5, Standard No. 3, Section IX.C as to proper operating</p> |

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| Condition Number | Conditions |
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| | <p>practices and procedures of the incinerator. The content of the above referenced training program, in addition to a list of trained personnel, has been submitted to the Director of the Engineering Services. The incinerator shall not be operated without a trained operator on site, who has a certificate verifying satisfactory completion of the training program.</p> <p>(S.C. Regulation 61-62.5, Standard No. 3, Section VI) The owner or operator of any source shall record the daily waste(s) charge rates and hours of operation. All records shall be kept onsite for a minimum of 5 years.</p> <p>The unit is permitted to combust land clearing waste consisting of only untreated natural wood debris, yard waste and non-treated or unfinished woodwaste.</p> |
| C.4 | <p>Equipment ID: Incinerator</p> <p>In accordance with SC Regulation 61-62.5, Standard 3, the Opacity shall not exceed 20%, except that an opacity level of up to 35% is permitted during startup periods during the first 30 minutes of operation of the unit.</p> <p>The owner/operator shall perform a visual inspection on a daily basis when the unit is in operation. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. The owner/operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so. This is a state only condition.</p> |
| C.5 | <p>Equipment ID: Incinerator</p> <p>The air curtain incinerator is subject to New Source Performance Standards (NSPS), 40 CFR 60 Subpart A, General Conditions and Subpart CCCC – Standards of Performance for Commercial and Industrial Solid Waste Incineration Units, and S.C. Regulation 61-62.60 Subparts A and Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units, as applicable. These sources shall comply with all applicable requirements of these Subparts A and CCCC.</p> <p>Air curtain incinerators which burn only clean lumber, yard waste and wood waste, are only subject to the requirements of 40 CFR 60 Subpart CCCC listed in 40 CFR §60.2242 and 60.2245 through 60.2260.</p> <p>In accordance with 40 CFR §60.2250, the owner or operator shall meet the following two limits: Maintain opacity to less than or equal to 10 percent (as determined by the average of three 1-hour blocks consisting of ten 6-minute average opacity values) for the incinerator except as described below: and</p> <p>Maintain opacity to less than or equal to 35 percent for the incinerator during the startup period that</p> |

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| | <p>is within the first 30 minutes of operation.</p> <p>Testing: In accordance with 40 CFR §60.2255, the facility shall use Method 9 to determine compliance with the opacity limitation. The facility shall conduct an initial test for opacity as specified in 40 CFR §60.8 within the first 180 days of operation, and following the date that the initial performance test is completed, the owner or operator of the air curtain incinerator shall conduct a performance test for opacity on an annual basis (no more than 12 calendar months following the previous performance test).</p> <p>Monitoring/Record Keeping/Reporting/Other: In accordance with 40 CFR §60.2260, the owner or operator shall maintain readily accessible records of results of the initial opacity performance test and subsequent performance tests for a period of at least 5 years onsite. The initial opacity test results must be submitted no later than 60 days following the initial test. The annual test results shall be submitted to the Department within 12 months following the previous report. All recordkeeping and reports shall be conducted as required by 40 CFR §60.2260.</p> |
| C.6 | <p>Equipment ID: Incinerator</p> <p>The air curtain incinerator is limited to a charge rate of 38,325 tons per year in order to keep the facility a synthetic minor source per SC Regulation 61-62.1, Section II (E).</p> <p>The owner/operator must record charge rate daily. The facility shall employ a method of measurement that accurately records how much waste is combusted and record the measured amount on a daily basis when the unit is in operation. The facility shall install and operate a strain gauge on each stacking rake used to load the incinerator. The weight of each load after the dirt removed shall be recorded and a daily amount documented. The facility shall calculate a monthly sum and calculate a 12 month rolling sum. This 12 month rolling sum shall not exceed 38,325 TPY. Reports of the charge rates shall be submitted semiannually.</p> |
| C.7 | <p>Equipment ID: Incinerator</p> <p>The unit is limited to operating during daylight hours and in addition, the loading of the unit is not allowed after 5 pm. The owner/operator must record the actual operating hours daily including the times operated and when the last waste was loaded into the unit. Reports of the recorded hours of operation shall be submitted semiannually.</p> <p>The owner/operator shall notify the Environmental Affairs Midlands Region Columbia Office prior to the startup of the air curtain incinerator on each calendar day that the unit is in operation. In lieu of the daily notification, the owner/operator may contact the Environmental Affairs Midlands Region Columbia Office with a weekly schedule for the operation of the unit. If the weekly schedule changes during the week, the owner/operator shall contact the Environmental Affairs Midlands Region Columbia Office with updated information prior to daily incineration. Incineration in the unit shall not commence until region personnel have been contacted by FAX, telephone or email.</p> |

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

| Condition Number | Conditions |
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| | The facility may request this condition to be modified or removed in the future should the Department deem modification or removal to be warranted. |
| C.8 | Equipment ID: Incinerator The unit is prohibited from operating the unit during a "South Carolina Forestry Commission Burn Notice". These burn notices can be found at the following web address: https://www.state.sc.us/forest/scnotifs.htm . |

D. NESHAP PERIODIC REPORTING SCHEDULE SUMMARY - RESERVED

E. NESHAP - CONDITIONS - RESERVED

F. AMBIENT AIR STANDARDS REQUIREMENTS

| Condition Number | Conditions |
|------------------|---|
| F.1 | <p>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.</p> <p>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.</p> |

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G. PERIODIC REPORTING SCHEDULE

| Compliance Monitoring Report Submittal Frequency | Reporting Period (Begins on the startup date of the source) | Report Due Date |
|--|---|---|
| Quarterly | January-March April-June July-September October-December | April 30 July 30 October 30 January 30 |
| 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 | Conditions |
|------------------|--|
| 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: <p style="text-align: center;">2600 Bull Street Columbia, SC 29201</p> The contact information for the local EQC Regional office can be found at: <p style="text-align: center;">http://www.scdhec.gov</p> |
| H.3 | The owner/operator shall submit written notification to the Director of Engineering Services of the date construction is commenced, postmarked within 30 days after such date. |
| H.4 | 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.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 |

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H. REPORTING CONDITIONS

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| | <p>after the beginning of the occurrence.</p> <p>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:</p> <ol style="list-style-type: none">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. PERMIT EXPIRATION AND EXTENSION

| Condition Number | Conditions |
|-------------------------|---|
| I.1 | <p>(S.C. Regulation 61-62.1, Section II.A.4) Approval to construct shall become invalid if construction:</p> <ol style="list-style-type: none">a. is not commenced within 18 months after receipt of such approval;b. is discontinued for a period of 18 months or more; orc. is not completed within a reasonable time as deemed by the Department. <p>The Department may extend the construction permit for an additional 18-month period upon a satisfactory showing that an extension is justified. This request must be made prior to the permit expiration.</p> |
| I.2 | <p>This provision does not apply to the time period between construction of the approved phases of a phased construction project; each phase must commence construction within 18 months of the projected and approved commencement date.</p> |

J. PERMIT TO OPERATE

| Condition Number | Conditions |
|-------------------------|--|
| J.1 | <p>(S.C. Regulation 61-62.1 Section II.F.2) The owner/operator or professional engineer in charge of the project shall certify that, to the best of his/her knowledge and belief and as a result of periodic</p> |

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J. PERMIT TO OPERATE

| Condition Number | Conditions |
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| | observation during construction, the construction under application has been completed in accordance with the specifications agreed upon in the construction permit issued by the Department. |
| J.2 | If construction is certified as provided in S.C. Regulation 61-62.1 Section II.F.2, the owner or operator, may operate the source in compliance with the terms and conditions of the construction permit until the operating permit is issued by the Department. |
| J.3 | <p>If construction is not built as specified in the permit application and associated construction permit(s), the owner/operator must submit to the Department a complete description of modifications that are at variance with the documentation of the construction permitting determination prior to commencing operation.</p> <p>Construction variances that would trigger additional requirements that have not been addressed prior to start of operation shall be considered construction without a permit.</p> |
| J.4 | <p>(S.C. Regulation 61-62.1, Section II.F.3) For sources not yet covered by an effective Title V operating permit, the owner or operator shall submit a written request to the Director of the Engineering Services for a new or revised operating permit to cover any new, or altered source, postmarked within 15 days after the actual date of initial startup of each new or altered source.</p> <p>(S.C. Regulation 61-62.70.5.a and 40 CFR §60.2242) The owner or operator shall submit a timely and complete Part 70 permit application within 12 months of startup.</p> |

K. GENERAL CONDITIONS

| Condition Number | Conditions |
|-------------------------|---|
| K.1 | The permittee shall pay permit fees to the Department in accordance with the requirements of S.C. Regulation 61-30, Environmental Protection Fees. |
| K.2 | <p>In the event of an emergency, as defined in S.C. Regulation 61-62.1, Section II.L, the owner or operator may document an emergency situation through properly signed, contemporaneous operating logs, and other relevant evidence that verify:</p> <ol style="list-style-type: none">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; and4. 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 |

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K. GENERAL CONDITIONS

| Condition Number | Conditions |
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| | taken. This provision is in addition to any emergency or upset provision contained in any applicable requirement. |
| K.3 | (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: <ol style="list-style-type: none">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. |

L. EMISSIONS INVENTORY REPORTS

| Condition Number | Conditions |
|-------------------------|---|
| L.1 | All newly permitted and constructed Title V sources and/or Non-attainment Area Sources shall complete and submit an emissions inventory consistent with the schedule approved pursuant to S.C. Regulation 61-62.1, Section III. These Emissions Inventory Reports shall be submitted to the Manager of the Emissions Inventory Section, Bureau of Air Quality. This requirement notwithstanding, an emissions inventory may be required at any time in order to determine the compliance status of any facility. |

ATTACHMENT - Emission Rates for Ambient Air Standards

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The emission rates listed herein are not considered 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 (see Ambient Air Standards Requirements).

| AMBIENT AIR QUALITY STANDARDS - STANDARD NO. 2 | | | | | | |
|---|--------------------------------|-------------------------|-----------------------|-----------------------|-----------|-------------|
| Emission Point ID | Emission Rates (lbs/hr) | | | | | |
| | PM₁₀ | PM_{2.5} | SO₂ | NO_x | CO | Lead |
| Incinerator | 98.8 | 98.8 | 2.0 | 52.0 | 80.0 | -- |