

JEFFERSON COUNTY DEPARTMENT OF HEALTH

AIR POLLUTION PROGRAM

MAJOR SOURCE OPERATING PERMIT

Permittee: Murray Oak Grove Coal, LLC – Oak Grove System

Location: 8800 Oak Grove Mine Road

Adger, Alabama 35006

Permit No: 4-07-0395-05

Issuance Date: August 23, 2019

Expiration Date: April 28, 2020

Nature of Business: Coal Preparation Plant and Coal Mine

Emissions Unit No.	Emissions Unit Description
101	700 TPH Fluidized Bed Thermal Coal Dryer (The source is subject to Subpart Y of 40 CFR 60.) and a Coal-Fired Furnace (PSD Source) with 4 Common Dry Cyclones and a 224,389 SCFM Wet Scrubber
102	10,000 Ton Capacity Clean Coal Storage Silo with 3 Hydrostatic Precipitators (The source is subject to Subpart Y of 40 CFR 60.)
105	Clean Coal Conveying System with a 20,000 SCFM Hydrostatic Precipitator (The source subject to Subpart Y of 40 CFR 60.)
106	Wet Coal Screening with a 19,000 ACFM Type N Rotoclone and Wet Precipitator (The source is subject to Subpart Y of 40 CFR 60.)
108	Railroad/Truck Load-out Station for Clean Coal (The source subject to Subpart Y of 40 CFR 60.)
109	2- 10 ft x 20 ft., 2000 Ton Per Hour Vibrating Screens, 2- 400 Ton Per Hour Rotary Coal Breakers, and Conveyor Belts with Water Sprays (The Breakers, Screens and the Conveyor Belts are subject to Subpart Y of 40 CFR 60.)
110	7,000 Ton Capacity Raw Coal Storage Silo and Transfer (The sources are subject to Subpart Y of 40 CFR 60.)
111	1,500 Gallon Capacity Gasoline Dispensing Facility (This source is subject to Subpart CCCCC of 40 CFR 63.)
112	1,500 TPH Concord Raw Coal Screen, Storage Pile (Relocated), and Radial Stackers (The sources are subject to Subpart Y of 40 CFR 60.)
113	A 200 ton (No. 1 tank) and a 150 tons (No. 3 tank) Capacity Rock Dust Storage Silos with Bin Vent Dust Collectors
114	<p>Internal Combustion Engines:</p> <p><u>Emergency Generators generators</u></p> <p>Waukesha Model 5790DSI, 1232 HP CI Engines (Engine No. 2)</p> <p>Caterpillar Model D399, 1380 HP, CI Engine (Engine No. 3)</p> <p>Caterpillar Model D3516, 1085 HP, CI Engine (Engine No. 4)</p> <p>2-Cummins Model QST-30, 1320HP CI Engines (Engine Nos. 5 and 6)</p> <p>Cummins Model KTA2300GS, 1350 HP CI Engine (Engine No. 7)</p> <p>2-White Model 400, 110 HP CI Engine (Engine Nos. 8 and 9)</p> <p>John Deere Model 6068DF150, 150 HP CI Engine (Engine No. 10)</p> <p>2-Cummins Model OSK60-G6, 2095 HP CI Engines (Engine Nos. 11 and 12)</p> <p>John Deere Model 6090HF485-315, 422 HP CI Engine (Engine No. 13)</p> <p>Cummins Model QST-30, 1200 HP CI Engine (Engine No. 14)</p> <p>Cummins Model QSB5, 176 HP CI Engine (Engine No. 15)</p> <p>Cummins Model QST-30-G5, 1200 HP CI Engines (Engine No. 16)</p> <p>Generac Model OHVI V-twin 992cc, 17 HP SI Engine (Engine No. 17)</p> <p>Cummins Model QSB7-G5-NR3, 324 HP CI Engine (Engine No. 18)</p>



JEFFERSON COUNTY DEPARTMENT OF HEALTH

AIR POLLUTION PROGRAM

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Internal Combustion Engines:

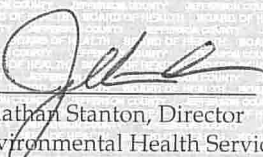
Compressors

Caterpillar Model G3408TA, 400 HP Rich Burn SI Engine
Caterpillar Model G3306TA, 203 HP Rich Burn SI Engine

This Permit is issued pursuant to and is conditioned upon the compliance with the provisions of the Jefferson County Board of Health Air Pollution Control Rules and Regulations, Section 18 of the Alabama Air Pollution Control Act of 1971, Act No. 769 (Regular Session, 1971), Section 22-28-16 of the Alabama Air Pollution Control Act as amended, Orders of the Jefferson County Board of Health, Orders of the Director of the Alabama Department of Environmental

Management, and any applicable local, state or federal Court Order. This Permit is subject to the accuracy of all information submitted relating to the permit application and to the conditions appended hereto. It is valid from the date of issuance and shall be posted or kept under file at the source location described above and shall be made readily available for inspection at any reasonable time to any and all persons who may request to see it. This Permit is not transferable.

Pursuant to the Clean Air Act Amendments of 1990 (CAAA), all conditions of this permit are Federally enforceable by EPA, The Jefferson County Board of Health and citizens in general. Those provisions which are not required by the CAAA are considered to be Jefferson County provisions and are not Federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.


Jonathan Stanton, Director
Environmental Health Services

Approved: Mark Wilson, M.D.
Health Officer



GENERAL PERMIT CONDITIONS

In addition to compliance with Alabama Air Pollution Control Act Number 769 (Regular Session, 1971) and Act Number 612 (Regular Session, 1982) and with all applicable Air Pollution Control Rules and Regulations, the conditions which are listed below are hereby contained in and made a part of this permit:

	Federally Enforceable Conditions	Regulations
1.	<p><u>Basis for Permit</u></p> <p>This permit is issued based on provisions contained in all existing Jefferson County Board of Health Air Pollution Control Rules and Regulations (hereinafter, called "Rules and Regulations"). In the event amendments, revisions or additions are made to these Rules and Regulations, it shall be the responsibility of the permit holder (hereinafter, called the "permittee") to comply with such new Rules and Regulations. Additions and revisions to the conditions in this permit will be made by the Jefferson County Department of Health (hereinafter, called the "Department"), if necessary, to assure that the Rules and Regulations are not violated.</p>	AL Act 769
2.	<p><u>Authority</u></p> <p>Nothing in this permit or conditions appended thereto shall negate any authority granted to this Department or the Health Officer pursuant to Act No. 769 (Regular Session, 1971) and Act No. 612 (Regular Session, 1982) or any regulations promulgated thereunder.</p>	AL Act 769
3.	<p><u>Emission Reduction Plan</u></p> <p>Upon notification by this Department, the permittee shall submit an Air Pollution Emission Reduction Plan in a format approved by this Department concerning air contaminant emission reductions to be taken during declared episodes.</p>	18.2.8(b)
4.	<p><u>Bypass Prohibited</u></p> <p>Except as provided in this permit, the permittee shall not bypass, without prior approval from this Department, any air pollution control device. The permittee shall not shut down any air pollution control device unless such shutdown is accompanied by the corresponding shutdown of the respective source which the device is intended to control.</p>	18.2.8(a)
5.	<p><u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another or from one person to another except as provided in Subparagraph 18.13.1(a)(5) of the Rules and Regulations.</p>	18.2.6
6.	<p><u>Shutdown of Controls</u></p> <p>In the case of shutdown of air pollution control equipment for scheduled maintenance for a period greater than 24 hours, the intent to shutdown shall be reported to this Department at least 24 hours prior to the planned shutdown in accordance with the requirements of Section 1.12.1 of the Rules and Regulations.</p>	1.12.1
7.	<p><u>Testing</u></p> <p>A source emissions test may be required by this Department at any time. The methods for such testing shall be in accordance with procedures established by Part 60 of Title 40 of the <u>Code of Federal Regulations</u>, hereinafter called 40 <u>CFR</u> 60, as the same may be amended or revised.</p>	1.9.1 18.5.3(a)(1)

8.	<p><u>Notice of Testing</u></p> <p>The permittee shall notify this Department in writing at least 2 weeks prior to the actual conduction of any required source emissions compliance test. This notice shall state the source to be tested, the proposed time of the test, and the testing date(s).</p>	1.9.1
9.	<p><u>Provisions for Testing</u></p> <p>The permittee shall provide each point of emission required to be tested with sampling ports, ladders, stationary platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by 40 CFR 60.</p>	18.2.8(c) 1.10.3
10.	<p><u>Test Results</u></p> <p>The permittee shall submit the results of all required emissions tests in duplicate in bound copies to this Department within a time period specified by this Department; however, not to exceed 3 weeks from the test completion date.</p>	18.2.8(c) 1.10.4
11.	<p><u>Maintenance of Controls</u></p> <p>A. The permittee shall equip each fabric filter particulate matter control device with a pressure differential measuring device to measure pressure drop across the filter media in the control device. This device shall be installed in a location which is easily accessible for inspection by personnel of this Department.</p> <p>B. All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in accordance with the manufacturers' specifications or alternative procedures approved by the Department so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be maintained near the source and provided to the Department upon request.</p> <p>C. The permittee shall conduct routine inspections on all required control equipment. All inspection results and repair work performed on the pollution control device shall be recorded. These records shall be retained in a permanent form suitable for inspection in a format approved by the Department for at least 5 years following the date of each occurrence. At a minimum, the most recent 2 years of data shall be kept on site. The remaining 3 years of data may be retained off site. The records/files may be maintained on microfilm, on a computer, on floppy disks, on magnetic tape, or on microfiche.</p>	18.2.8(a)
12.	<p><u>Fugitive Dust</u></p> <p>The permittee shall maintain plant roads and grounds in the vicinity of the source permitted herein in the following manner so that dust will not leave the permittee's property:</p> <p>A. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stock piles, screen, dryers, hoppers, ductwork, etc.</p> <p>B. Unpaved plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne:</p> <p>1. By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic; or</p>	18.2.8(a) 6.2

	<ol style="list-style-type: none"> 2. By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; or 3. By paving; or 4. By the application of binders (chemical dust suppressants) to the road surface at any time the road surface is found to allow the creation of dust emissions; or 5. By any combination of the above methods which results in the prevention of dust becoming airborne from the road surface. Other dust control methods not listed may be used if approved by the Department. <p>C. Paved plant roads and grounds shall be maintained in the following manner so that dust will not become airborne:</p> <ol style="list-style-type: none"> 1. Mechanical cleaning (vacuuming); or 2. Water flushing; or 3. Earth or other dust-forming material that is deposited on the paved roads shall be removed at the earliest opportunity subject to safety; or 4. Paving or using a chemical dust suppressant on unpaved access points; or 5. Washing and dewatering tires and the underbody of trucks which enter a paved road from an unpaved road; or 6. By any combination of the above methods which results in the prevention of dust becoming airborne from the road surface and crossing the facility's property line. Other dust control methods not listed above may be used if approved by the Department. 	
13.	<p><u>Malfunction</u></p> <p>The permittee shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of the process or air pollution control equipment permitted herein that result in an exceedance of an emission limit. These records shall be retained in a permanent form suitable for inspection in a format approved by the Department for at least 5 years following the date of each occurrence. At a minimum, the most recent 2 years of data shall be kept on site. The remaining 3 years of data may be retained off site. The records/files may be maintained on microfilm, on a computer, on floppy disks, on magnetic tape, or on microfiche. Malfunction reporting to the Department shall be included in permit Condition 30.</p>	18.5.3(b)(1)(vii)
14.	<p><u>Monitoring Records</u></p> <p>Records of all required monitoring shall be retained for a period of 5 years from the date of measurement including all calibration and maintenance records and all original recordings and copies of all reports.</p>	18.5.3(b)(1)(vii)

15.	<u>Monitoring Reports</u> Reports of required monitoring shall be submitted to the Department by January 31 and July 31 of each year. All instances of deviations from permit requirements must be clearly identified in such reports. All reports must be signed by a responsible official as defined in the Rules and Regulations.	18.5.3(c)(1)
16.	<u>Deviations</u> Deviations from permit requirements shall be reported within 48 hours of deviation, including those attributable to upset conditions, the probable cause of said deviations and any corrective actions or preventive measures that were taken.	18.5.3(c)(2)
17.	<u>Severability</u> In case of legal challenge to any portion of this permit, the remainder of the permit conditions shall continue in force.	18.5.5
18.	<u>Compliance</u> The permittee shall comply with all conditions of the Rules and Regulations. Noncompliance with a permit condition will constitute a violation of the Act and may result in enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.	18.5.6
19.	<u>Compliance Defense</u> The permittee shall not use as a defense in an enforcement action, that maintaining compliance with permit conditions would have required halting or reducing the permitted activity.	18.5.7
20.	<u>Termination for Cause</u> This permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance or termination, or of a notification of a planned change or anticipated noncompliance will not stay any permit condition.	18.5.8
21.	<u>Property Rights</u> No property rights of any sort or any exclusive privilege are conveyed through the issuance of this permit.	18.5.9
22.	<u>Requests for Information</u> The permittee shall furnish to the Department within 30 days, or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by the permit.	18.5.10

23.	<u>Fees</u> The permittee shall have paid all fees including emission fees required by the Rules and Regulations or the permit is not valid.	18.5.11
24.	<u>Economic Incentives</u> No permit revision shall be required under any approved economic incentives, marketable permit emissions trading and other similar programs or processes for changes that are provided for in the permit.	18.5.12
25.	<u>Alternative Operating Scenarios</u> With respect to any alternative operating scenarios included in this permit, the permittee shall: A. Record the change from one operating scenario to another in a log at the permitted facility. The recording of the change shall be made contemporaneously with the change, and the log shall contain the scenario under which the facility is currently operating. B. Ensure that terms and conditions of each alternative operating scenario meets all of the requirements of this permit, as well as, the Rules and Regulations.	18.5.13
26.	<u>Entry and Inspections</u> The permittee shall allow the Department or authorized representative upon presentation of credentials and other documents that may be required by law to conduct the following: A. Enter upon the permittee's premises where a source is located or emissions related activity is conducted or where records are kept pursuant to the permit conditions; B. Review and/or copy at reasonable times any records kept pursuant to the permit conditions; C. Inspect at reasonable times any facilities, equipment, practices, or operations required by the permit; and D. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements.	18.7.2 18.2.9(d)
27.	<u>Compliance Certification</u> A compliance certification shall be submitted annually within 30 days of the anniversary of the initial issue date. The permittee shall provide a means for assuring the compliance of its air pollution sources with the emissions limitations, standards and work practices listed or referenced within this permit. A. The compliance certification shall include the following: 1. The identification of each term or condition of this permit to which the facility is subject; 2. The current compliance status;	18.7.1 18.7.5(c) 18.7.5(d) 18.7.5(e) 18.4.9

	<p>3. Whether compliance has been continuous or intermittent during the reporting period;</p> <p>4. The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with this permit and the Rules and Regulations; and</p> <p>5. Such other facts as the Department may require to determine the compliance status of the source.</p> <p>B. The compliance certification shall be submitted to:</p> <p style="text-align: center;">Jefferson County Department of Health Air and Radiation Protection Division P.O. Box 2648 Birmingham, Alabama 35202-2648</p> <p style="text-align: center;">and to</p> <p style="text-align: center;">EPA Region IV Air & EPCRA Enforcement Branch 61 Forsyth Street Atlanta, Georgia 30303-8960</p>	
28.	<p><u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>A. Additional applicable requirements under the Clean Air Act of 1990 (hereinafter the "Act") become applicable to the permittee with a remaining permit term of 3 or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirements. No such reopening is required if the effective date of the requirement is later than the date of which this permit is due to expire.</p> <p>B. Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>C. The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>D. The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	18.13.5
29.	<p><u>Changes</u></p> <p>Certain changes (per Section 502 (B)(10) of the Act) can be made to this permit without a revision if no modification as defined in the Rules and Regulations would occur and the changes do not exceed the emissions allowed under this permit provided that a notice is sent to the Department 7 days in advance of the change.</p>	18.13.2

30.	<p><u>Emergency Provision</u></p> <p>A. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emissions limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.</p> <p>B. Exceedances of emission limits during emergencies (as defined above) at a facility may be exempted from being violations provided that:</p> <ol style="list-style-type: none"> 1. The permittee can identify the cause(s) of the emergency; 2. At the time of the emergency, the permitted facility was being properly operated; 3. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; 4. The permittee submitted notice of the emergency to the Health Department within 2 working days of the time when emission limitations were exceeded due to the emergency. Such notice shall include those deviations attributable to upset conditions as defined in the permit, the probable cause of said deviations, and any corrective actions or preventive measures that were taken. Within 5 working days of the emergency, a written documentation of what was reported in the notice of the emergency shall be submitted to the Department; and 5. The permittee immediately documented the emergency exceedance in an "Emergency Log", which shall be maintained for 5 years in a form suitable for inspection upon request by a representative of the Department. <p>C. The Health Officer shall be the sole determiner of whether an emergency has occurred.</p> <p>D. This provision is in addition to any emergency or upset provision contained in any applicable requirement.</p>	18.11.2
31.	<p><u>Nothing in this Operating Permit Shall Alter or Affect the Following:</u></p> <p>A. The provisions of Section 303 of the Act (emergency orders), including the authority of the Administrator under that section;</p> <p>B. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;</p> <p>C. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act; or</p> <p>D. The ability of EPA to obtain information from a source pursuant to Section 114 of the Act.</p>	18.10.3

32.	<p><u>Expiration</u></p> <p>A source's or permittee's right to operate shall terminate upon the expiration of this permit unless a timely complete renewal application has been submitted at least 6 months, but not more than 18 months before the date of expiration or the Department has taken final action approving the source's application for renewal by the expiration date.</p>	<p>18.12.2(b) 18.4.3 18.5.2</p>
33.	<p><u>Minor Permit Modifications</u></p> <p>Minor permit modification procedures may be used only for those permit modifications that:</p> <ul style="list-style-type: none"> A. Do not violate any applicable requirement; B. Do not involve significant changes to existing monitoring, reporting, or record keeping requirements in the permit; C. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis; D. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include: <ul style="list-style-type: none"> 1. A federally enforceable emissions cap assumed to avoid classification as a modification under any provision of title I of the Act; and 2. An alternative emissions limit approved pursuant to regulations promulgated under Section 112(i)(5) of the Act; E. Are not modifications under any provision of title I of the Act; and F. Are not required by Part 18.12 of the Rules and Regulations to be processed as a significant modification. 	<p>18.13.3</p>
34.	<p><u>Availability of Permit</u></p> <p>The permittee shall keep this permit under file or on display at all times at the site where the source is located and shall make the permit available for inspection by any and all persons who may request to see it.</p>	<p>18.2.2</p>
35.	<p><u>Acceptance of Permit</u></p> <p>The permittee is required to bring the operation of a source within the standards of Paragraph 18.2.8(a) of the Rules and Regulations. Commencing construction or operation of the source shall be deemed acceptance of all conditions specified. An Operating Permit with revised conditions may be issued upon receipt of a new application if the permittee demonstrates that the source can operate within the standard of Paragraph 18.2.8(a) of the Rules and Regulations under the revised conditions.</p>	<p>18.2.4</p>

36.	<p><u>Construction Not In Accordance with Applications</u></p> <p>If the source permitted herein has been constructed not in accordance with the Operating Permit application and if the changes noted are of a substantial nature in that the amount of air contaminants emitted by the source may be increased or in that the effect is unknown, then the permit shall be revoked. No further application for an Operating Permit shall be accepted until the source has been reconstructed in accordance with the permit or until the permittee has proven to the Department that the change will not cause an increase in the emission of air contaminants.</p>	18.2.8(e)
37.	<p><u>Revocation</u></p> <p>This Operating Permit may be revoked for any of the following reasons:</p> <ul style="list-style-type: none"> A. Failure to comply with any conditions of the permit; B. Failure to establish and maintain such records, make such reports, install, use and maintain such monitoring equipment or methods; and sample such emissions in accordance with such methods at such locations, intervals and procedures as may be prescribed in accordance with Section 1.9.2 of the Rules and Regulations; C. Failure to comply with any provisions of any Department administrative order issued concerning the permitted facility; D. Failure to comply with the Rules and Regulations; or E. For any other cause, after a hearing which establishes, in the judgment of the Department, that continuance of the permit is not consistent with the purpose of the Act or Regulations. 	18.2.9
38.	<p><u>Additional Information</u></p> <p>The permittee shall submit any additional information to the Department to supplement or correct an application promptly after becoming aware of the need for additional or corrected information.</p>	18.4.7
39.	<p><u>Significant Modifications</u></p> <p>Modifications that are significant modifications under the PSD (Part 2.4) or nonattainment (Part 2.5) of the Rules and Regulations or are modifications under the NSPS or NESHAPS shall be incorporated in the Operating Permit using the requirements for sources initially applying for an Operating Permit, including those for applications, public participation, review by affected States, review by ADEM, and review by EPA, as described in Parts 18.4 and 18.15 of the Rules and Regulations.</p>	18.13.4
40.	<p><u>Schedule of Compliance</u></p> <ul style="list-style-type: none"> A. The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. B. The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	18.7.3

41.	<p><u>Progress Reports</u></p> <p>If any air pollution source owned or operated by the permittee is not in compliance with the emissions limitations, standards and work practices listed or referenced within this permit, the permittee shall submit a progress report for that air pollution source. Except in the case of a compliance schedule existing or under negotiation on the date of issuance of this permit, the first schedule of compliance shall be submitted within 3 months after the Operating Permit issuance date or within 3 months of the permittee or Department determining that the air pollution source is not in compliance. Subsequent reports shall be submitted every sixth month following the initial report. The progress reports shall contain the following:</p> <p>A. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and/or dates when such activities, milestones or compliance were achieved; and</p> <p>B. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.</p>	18.7.4
42.	<p><u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by the Department inspectors, measures to abate the odorous emissions shall be taken upon a determination by this Department that these measures are technically and economically feasible.</p>	6.2.3
43.	<p><u>New Air Pollution Sources</u></p> <p>A new permit application shall be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants.</p>	18.2.3
44.	<p><u>MACT Standard</u></p> <p>The permittee shall be subject to any or all future applicable Federal Maximum Achievable Control Technology (MACT) Standards immediately from the date of promulgation by EPA, of the standards.</p>	18.2.3
45.	<p><u>Prevention of Accidental Releases</u></p> <p>The permittee shall comply with the applicable requirements of Section 112 (r) of the Act to prevent accidental releases and to minimize the consequences any such release of any substance listed pursuant to Paragraph (3) of Section 112 (r), as the same may be amended or revised, or any other extremely hazardous substance.</p>	18.2.3
46.	<p><u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 <u>CFR</u> 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 <u>CFR</u> 82, Subpart F.</p>	<p>40 <u>CFR</u> 82 18.1.1(e)(10) 18.1.1(w)(4)</p>

	<p>A. No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 <u>CFR</u> 82, Subpart F.</p> <p>B. The responsible official shall comply with all reporting and recordkeeping requirements of 40 <u>CFR</u> 82.166. Reports shall be submitted to the U.S. EPA and the Department as required.</p>	
47.	<p><u>Asbestos</u></p> <p>Demolition and renovation activities at this facility are subject to the National Emission Standard for Asbestos, 40 <u>CFR</u> 61, Subpart M. To determine the applicable requirements of the Standard, the permittee must thoroughly inspect the affected part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos-containing materials, prior to the commencement of the demolition or renovation operation. The permittee shall comply with all applicable sections of the Standard, including notification requirements, emission control and waste disposal procedures. The permittee shall also ensure that anyone performing asbestos-related work at the facility is trained and certified according to the Alabama Department of Environmental Management's regulations for Asbestos Contractor Certification.</p>	<p>40 <u>CFR</u> 61 14.2.12 14.2.12(a)(1)</p>
48.	<p>All previously issued permits, including the Air Permits for 2 compressors, to this facility shall be considered void immediately after issuance of this permit. The permittee shall return all void permits to the Department immediately upon receipt of this permit.</p>	<p>18.2.3</p>

<u>Facility No.</u>	<u>Emissions Unit No.</u>	<u>Emissions Unit Description</u>
0395	101	700 TPH Fluidized Bed Thermal Coal Dryer (The source is subject to Subpart Y of 40 <u>CFR</u> 60.) and a Coal-Fired Furnace (PSD Source) with 4 Common Dry Cyclones and a 224,389 SCFM Wet Scrubber

Permit Conditions for Emissions Unit No. 101

	Federally Enforceable Conditions	Regulations
1.	<p>The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department the following production information for the source permitted herein:</p> <p>A. Quantity of coal processed through the dryer; B. Quantity of coal combusted by the furnace; C. Quantity of oil combusted by the furnace; and D. Hours of operation of the dryer.</p>	18.2.3
2.	The source permitted herein shall be limited to a maximum coal processing rate of 6.14 million tons per year based upon an annual rolling average as defined in Part 1.3 of the Rules and Regulations.	18.2.3
3.	<p>The owner or operator shall not cause to be discharged into the atmosphere from the thermal dryer any gases which exhibit 20% opacity or greater. The opacity shall be determined by EPA Reference Method 9 of appendix A of 40 <u>CFR</u> 60.</p> <p>The opacity standard shall apply at all times except during periods of startup, shutdown, and malfunction</p>	<p>40 <u>CFR</u> 60.252(a)(2)</p> <p>40 <u>CFR</u> 60.11(c)</p>
4.	If, during the initial 30 minutes of the observation of a Method 9 of appendix A performance test, all of the 6-minute average readings are less than or equal to half the applicable opacity limit, then the observation period may be reduced from 1 hour to 30 minutes.	40 <u>CFR</u> 60.257(a)(1)(ii)
5.	<p>The coal fired furnace permitted herein shall have a bypass stack exhaust opacity not to exceed 20%, as determined by a 6-minute average, or as otherwise provided in Section 6.1.1 of the Rules and Regulations. The opacity shall be determined by EPA Reference Method 9 of appendix A of 40 <u>CFR</u> 60.</p> <p>The opacity standard shall apply at all times except during periods of startup, shutdown, load change, and rate change or other short, intermittent periods of times.</p>	<p>6.1.1(a) 6.1.1(b)</p> <p>6.1.1(c)</p>
6.	<p>The permittee shall observe the thermal coal dryer bypass stack at least once each week. The observer shall permanently record the time and date of the observation, and the presence or absence of any visible emissions. If visible emissions are observed, corrective actions to eliminate the visible emissions shall be initiated within 1 hour. Within 24 hours of the completion of the corrective activities, the permittee shall again observe the wet scrubber discharge stack(s). If visible emissions are present, a certified observer shall complete an EPA Method 9 Visible Emissions Evaluation within 3 business days to establish compliance with the opacity limitation in Condition No. 5</p> <p>The date, time, and type of corrective action initiated to eliminate the visible emissions and the date and time the corrective actions were completed shall be provided in the same record that contained the initial observation.</p>	18.2.3

7.	The owner or operator shall not cause to be discharged in to the atmosphere from the thermal dryer any gases which contain PM in excess of 0.070 g/dscm (0.031 gr/dscf). If required by the Department, the PM emissions rate shall be measured by EPA Reference Method 5 of appendix A of 40 <u>CFR</u> 60.	40 <u>CFR</u> 60.252(a)(1)
8.	The sampling time and sample volume for each run of Method 5 test shall be at least 60 minutes and 0.85 dscm (30 dscf). Sampling shall begin no less than 30 minutes after startup and shall terminate before shutdown procedures begin. A minimum of 3 valid test runs are needed to comprise a PM performance test.	40 <u>CFR</u> 60.257(b)(5)(i)
9.	The furnace and thermal dryer permitted herein shall have a PSD SO ₂ emissions rate not to exceed 134.2 lbs/hr as measured by EPA Reference Method 6c of appendix A of 40 <u>CFR</u> 60.	18.2.3 (PSD requirement)
10.	The sulfur content of coal combusted in the furnace shall not exceed 1.1% by weight.	18.2.3, 18.5
11.	The permittee shall analyze the coal following ASTM Methods to verify the compliance with the allowable sulfur content in coal in Condition No. 10. Any excess sulfur content in the coal in any month shall be reported to the Department within 15 days of the end of the month.	18.2.3 18.5
12.	Prior to the submission of the permit renewal application, the permittee shall perform compliance tests to re-establish compliance with the permit limits in Condition Nos. 3, 5, and 7. During the testing, parametric monitoring parameters (i.e., differential pressure drop, water flow rates, etc.) shall be recorded and included in the final test report.	18.2.3
13.	<p>To remain in compliance with the opacity standard in Condition No. 3, the opacity must be maintained such that any 6-minute average opacity is less than 20%. If the average opacity for any 6-minute block period is not less than 20%, this shall constitute a violation of the standard.</p> <p>Compliance with the opacity standard in Condition No. 3 shall be determined by the permittee. The permittee shall perform a weekly opacity observation of the Thermal Dryer Scrubber Discharge Stack in accordance with procedures of Method 9 of appendix A of 40 <u>CFR</u> 60 each week the Thermal Dryer operates. The Method 9 test shall be conducted while the affected source is operating at the highest load or capacity level reasonably expected to occur within the day. The duration of the Method 9 test shall be at least 30 minutes.</p> <p>The observer shall permanently record the time and date of the observation. If the Visible Emissions Evaluation exceeds the opacity standard in Condition No. 3, corrective actions to eliminate the exceedance shall be initiated within 1 hour. Within 24 hours of the completion of the corrective activities and the return of the Emissions Unit to operation, the permittee shall again perform a Method 9 observation of the scrubber's outlet discharge stack. If the opacity still exceeds the opacity Standard in Condition No. 3, the Emissions Unit shall immediately be shut down for repair.</p> <p>The date, time, and type of corrective action(s) initiated to eliminate the visible emissions and the date and time the corrective actions were completed shall be provided in the same record that contained the initial observation.</p>	18.2.3 40 <u>CFR</u> 64.6(c)(1)(ii) 40 <u>CFR</u> 64.7(d) 40 <u>CFR</u> 64.9(b)(1)
14.	To establish compliance with the indicators, the permittee shall provide instrumentation to continuously read, display, and record in an electronic database each indicator being monitored. The instrumentation shall be maintained in accordance with the manufacturer's recommendations, calibrated annually, and the instrumentation connections checked for pluggage whenever the Emissions Unit indicates any deviation of more than 5% from the minimum values described in Condition Nos. 21 and 22. Corrective actions shall be taken within 1 day to identify the cause of the discrepancy.	40 <u>CFR</u> 64.9(b)(2)

15.	The permittee shall install, calibrate, maintain and continuously operate a monitoring device for the measurement of the temperature of the gas stream at the exit of the thermal dryer on a continuous basis. The monitoring device shall be certified by the manufacturer to be accurate within $\pm 1.7^{\circ}\text{C}$ ($\pm 3^{\circ}\text{F}$).	40 <u>CFR</u> 60.256(a)(1) 40 <u>CFR</u> 60.256(a)(1)(i)
16.	The permittee shall install a monitoring device on the scrubber for the continuous measurement of the pressure loss through the venturi constriction of the scrubber. The monitoring device shall be certified by the manufacturer to be accurate within ± 1.0 inch of water gauge.	40 <u>CFR</u> 60.256(a)(ii)(A)
17.	The permittee shall install a monitoring device on the scrubber for the continuous measurement of the water supply pressure to the control equipment. The monitoring device shall be certified by the manufacturer to be accurate within $\pm 5\%$ of design water supply pressure. The pressure sensor or tap must be located close to the water discharge point. The health Officer shall have the discretion to grant requests for approval of alternative monitoring locations.	40 <u>CFR</u> 60.256(a)(ii)(B)
18.	The permittee shall install a monitoring device for the continuous measurement of the water supply flow rate to the control equipment. The monitoring device shall be certified by the manufacturer to be accurate within $\pm 5\%$ of the design water supply pressure.	40 <u>CFR</u> 60.256(b)(2)(ii)
19.	All monitoring devices under 40 <u>CFR</u> 60.256 (a) are to be recalibrated annually in accordance with procedures under 40 <u>CFR</u> 60.13(b).	40 <u>CFR</u> 60.256(a)(2)
20.	By-pass of the thermal dryer scrubber shall be limited to no more than 30 minutes during startup and shutdown of the thermal dryer furnace and during emergency malfunction situations as defined in Section 18.11.2 of the Rules and Regulations.	18.11.2
21.	The permittee shall maintain a scrubber pressure drop/loss of not less than 41.0 in. w.g. across the scrubber venturi throat section. The scrubber pressure drop shall be a 1- hour average of minimum 10-minute intervals.	18.2.3 40 <u>CFR</u> 64.3 (a)(3)(i)
22.	The permittee shall maintain scrubber inlet water flow rate to the venturi scrubber of not less than 3,000 gallons per minute. The water flow rate shall be a 1-hour average of minimum 10-minute intervals.	18.2.3 40 <u>CFR</u> 64.3 (a)(3)(i)
23.	The Emissions Unit permitted herein is subject to the Compliance Assurance Monitoring (CAM) requirements of the current 40 <u>CFR</u> 64, where applicable, and the CAM requirements contained in the attached appendix A.	18.2.3 40 <u>CFR</u> 64.2
24.	The permittee shall make calculations for the previous year's actual emissions of TSP, PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO, VOCs, and HAPs. The calculations shall be submitted to the Department by February 10 th each year. Concurrence with the calculations by the Department shall be the basis for determining the annual emissions fees.	18.2.3

<u>Facility No.</u>	<u>Emissions Unit No.</u>	<u>Emissions Unit Description</u>
0395	102	10,000 Ton Capacity Clean Coal Storage Silo with 3 Hydrostatic Precipitators (The source is subject to Subpart Y of 40 <u>CFR</u> 60.)

Permit Conditions for Emissions Unit No. 102

	Federally Enforceable Conditions	Regulations
1.	<p>The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the source permitted herein:</p> <p>A. Quantity of coal stored; and B. Hours of operation of the silo.</p>	18.2.3
2.	<p>The sources permitted herein shall have an exhaust opacity less than 20%, as determined by a 6-minute average. The opacity shall be determined by EPA Reference Method 9 of appendix A of 40 <u>CFR</u> 60.</p>	40 <u>CFR</u> 60.254(a)
3.	<p>The permittee shall observe the wet scrubber discharge stacks at least once each week the scrubber(s) operate. The observer shall permanently record the time and date of the observation, and the presence or absence of any visible emissions. If visible emissions are observed, corrective actions to eliminate the visible emissions shall be initiated within 1 hour. Within 24 hours of the completion of the corrective activities, the permittee shall again observe the wet scrubber discharge stack(s). If visible emissions are present, a certified observer shall complete an EPA Method 9 Visible Emissions Evaluation within 3 business days to establish compliance with the opacity limitation in Condition No. 2.</p> <p>The date, time, and type of corrective action initiated to eliminate the visible emissions and the date and time the corrective actions were completed shall be provided in the same record that contained the initial observation.</p>	<p>18.2.3</p> <p>40 <u>CFR</u> 70.6(a)(3)</p>
4.	<p>The permittee shall make calculations for the previous year's actual emissions of TSP, PM₁₀, and PM_{2.5}. The calculations shall be submitted to the Department by February 10th each year. Concurrence with the calculations by the Department shall be the basis for determining the annual emissions fees.</p>	18.2.3

<u>Facility No.</u>	<u>Emissions Unit No.</u>	<u>Emissions Unit Description</u>
0395	105	Clean Coal Conveying System with a 20,000 SCFM Wet Scrubber (The source is subject to Subpart Y of 40 <u>CFR</u> 60.)

Permit Conditions for Emissions Unit No. 105

	Federally Enforceable Conditions	Regulations
1.	The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the source permitted herein: A. Quantity of coal conveyed; B. Average moisture content of coal; and C. Hours of operation of the coal conveying system.	18.2.3
2.	The source permitted herein shall have an exhaust opacity of less than 20%, as determined by a 6-minute average. The opacity shall be determined by EPA Reference Method 9 of appendix A of 40 <u>CFR</u> 60.	40 <u>CFR</u> 60.254(a)
3.	The source permitted herein shall have a particulate matter emission rate not to exceed that allowed by Part 6.4 of the Rules and Regulations, as measured by EPA Reference Method 5 of appendix A of 40 <u>CFR</u> 60. The PM allowable emissions rate, based on Part 6.4, shall be 49.60 lb/hr.	6.4
4.	The permittee shall observe the wet scrubber stack at least once each week the system operates. The observer shall permanently record the time and date of the observation, and the presence or absence of any visible emissions. If visible emissions are observed, corrective actions to eliminate the visible emissions shall be initiated within 1 hour. Within 24 hours of the completion of the corrective activities, the permittee shall again observe the wet scrubber stack. If visible emissions are present, a certified observer shall complete an EPA Method 9 Visible Emissions Evaluation within 3 business days to establish compliance with the opacity limitation in Condition No. 2. The date, time, and type of corrective action initiated to eliminate the visible emissions and the date and time the corrective actions were completed shall be provided in the same record that contained the initial observation.	18.2.3 40 <u>CFR</u> 70.6(a)(3)
5.	The permittee shall make calculations for the previous year's actual emissions of TSP, PM _{2.5} , and PM ₁₀ . The calculations shall be submitted to the Department by February 10 th each year. Concurrence with the calculations by the Department shall be the basis for determining the annual emissions fees.	18.2.3

<u>Facility</u> <u>No.</u>	<u>Emissions</u> <u>Unit No.</u>	<u>Emissions Unit Description</u>
0395	106	Wet Coal Screening with a 19,000 ACFM, Type N Rotoclone, Wet Precipitator (The source is subject to Subpart Y of 40 <u>CFR</u> 60.)

Permit Conditions for Emissions Unit No. 106

	<u>Federally Enforceable Conditions</u>	<u>Regulations</u>
1.	The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the source permitted herein: A. Hours of operation; and B. Quantity of coal screened.	18.2.3
2	The source permitted herein shall have an exhaust opacity of less than 20%, as determined by a 6-minute average. The opacity shall be determined by EPA Reference Method 9 of appendix A of 40 <u>CFR</u> 60.	40 <u>CFR</u> 60.254(a)
3.	The source permitted herein shall have a particulate matter emission rate not to exceed that allowed by Part 6.4 of the Rules and Regulations, as measured by EPA Reference Method 5 of appendix A of 40 <u>CFR</u> 60. The PM allowable emissions rate, based on Part 6.4, shall be 49.38 lb/hr.	6.4
4.	The permittee shall observe the discharge stack at least once each week the rotoclone operates. The observer shall permanently record the time and date of the observation, and the presence or absence of any visible emissions. If visible emissions are observed, corrective actions to eliminate the visible emissions shall be initiated within 1 hour. Within 24 hours of the completion of the corrective activities, the permittee shall again observe the discharge stack. If visible emissions are present, a certified observer shall complete an EPA Method 9 Visible Emissions Evaluation within 3 business days to establish compliance with the opacity limitation in Condition No. 2. The date, time, and type of corrective action initiated to eliminate the visible emissions and the date and time the corrective actions were completed shall be provided in the same record that contained the initial observation.	18.2.3 40 <u>CFR</u> 70.6(a)(3)
5.	The permittee shall make calculations for the previous year's actual emissions of TSP, PM _{2.5} , and PM ₁₀ . The calculations shall be submitted to the Department by February 10 th each year. Concurrence with the calculations by the Department shall be the basis for determining the annual emissions fees.	18.2.3

Facility
No.

Emissions
Unit No.

Emissions Unit Description

0395

108

Railroad/Truck Load-out Station for Clean Coal
(The source is subject to Subpart Y of 40 CFR 60.)

Permit Conditions for Emissions Unit No. 108

	Federally Enforceable Conditions	Regulations
1.	The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the source permitted herein: A. Quantity of coal loaded; and B. Hours of operation of the load-out station.	18.2.3
2.	The source permitted herein shall have an exhaust opacity of less than 20%, as determined by a 6-minute average. The opacity shall be determined by EPA Reference Method 9 of appendix A of 40 <u>CFR</u> 60.	40 <u>CFR</u> 60.254(a)
3.	The permittee shall observe the loading system at least once each week the loading system operates. The observer shall permanently record the time and date of the observation, and the presence or absence of any visible emissions. If visible emissions are observed, corrective actions to eliminate the visible emissions shall be initiated within 1 hour. Within 24 hours of the completion of the corrective activities, the permittee shall again observe the loading system. If visible emissions are present, a certified observer shall complete an EPA Method 9 Visible Emissions Evaluation within 3 business days to establish compliance with the opacity limitation in Condition No. 2. The date, time, and type of corrective action initiated to eliminate the visible emissions and the date and time the corrective actions were completed shall be provided in the same record that contained the initial observation.	18.2.3 40 <u>CFR</u> 70.6(a)(3)
4.	The permittee shall make calculations for the previous year's actual emissions of TSP, PM _{2.5} , and PM ₁₀ . The calculations shall be submitted to the Department by February 10 th each year. Concurrence with the calculations by the Department shall be the basis for determining the annual emissions fees.	18.2.3

Facility
No.

Emissions
Unit No.

Emissions Unit Description

0395

109

2- 10 ft. x 20 ft., 2,000 Ton Per Hour Vibrating Screens,
 2- 400 Ton Per Hour Rotary Coal Breakers, and Conveyor
 Belts with Water Sprays (Breakers, Screens and Conveyor
 Belts are subject to Subpart Y of 40 CFR 60.)

Permit Conditions for Emissions Unit No. 109

	Federally Enforceable Conditions	Regulations
1.	<p>The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department the following production information at the source permitted herein:</p> <p>A. Quantity of coal processed by the screens; B. Quantity of coal processed by the breakers; and C. Hours of operation of the screens and breakers.</p>	18.2.3
2.	<p>The permittee shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal transfer and loading system processing coal, gases which exhibit 20% opacity or greater. The opacity shall be determined by EPA Reference Method 9 of appendix A of 40 <u>CFR</u> 60.</p>	40 <u>CFR</u> 60.254(a)
3.	<p>The permittee shall make calculations for the previous year's actual emissions of TSP, PM_{2.5}, and PM₁₀. The calculations shall be submitted to the Department by February 10th each year. Concurrence with the calculations by the Department shall be the basis for determining the annual emissions fees.</p>	18.2.3

Facility
No.

Emissions
Unit No.

Emissions Unit Description

0395

110

7,000 Tons Capacity Raw Coal Storage Silo and Transfer
(The sources are subject to Subpart Y of 40 CFR 60.)

Permit Conditions for Emissions Unit No. 110

	Federally Enforceable Conditions	Regulations
1.	The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the source permitted herein: A. Quantity of coal stored; and B. Hours of operation of the silo.	18.2.3
2.	The permittee shall not cause to be discharged into the atmosphere from any coal storage system, or coal transfer and loading system processing coal, gases which exhibit 20% opacity or greater. The opacity shall be determined by EPA Reference Method 9 of appendix A of 40 <u>CFR</u> 60.	40 <u>CFR</u> 60.254(a)
3.	The permittee shall observe the loading system at least once each week the loading system operates. The observer shall permanently record the time and date of the observation, and the presence or absence of any visible emissions. If visible emissions are observed, corrective actions to eliminate the visible emissions shall be initiated within 1 hour. Within 24 hours of the completion of the corrective activities, the permittee shall again observe the loading system. If visible emissions are present, a certified observer shall complete an EPA Method 9 Visible Emissions Evaluation within 3 business days to establish compliance with the opacity limitation in Condition No. 2. The date, time, and type of corrective action initiated to eliminate the visible emissions and the date and time the corrective actions were completed shall be provided in the same record that contained the initial observation.	18.2.3 40 <u>CFR</u> 70.6(a)(3)
4.	The permittee shall make calculations for the previous year's actual emissions of TSP, PM _{2.5} , and PM ₁₀ . The calculations shall be submitted to the Department by February 10 th each year. Concurrence with the calculations by the Department shall be the basis for determining the annual emissions fees.	18.2.3

<u>Facility No.</u>	<u>Emissions Unit No.</u>	<u>Emissions Unit Description</u>
0395	111	1,500 Gallon Capacity Gasoline Dispensing Facility (This source is subject to Subpart CCCCCC of 40 <u>CFR</u> 63.)

Permit Conditions for Emissions Unit No. 111

	Federally Enforceable Conditions	Regulations
1.	The permittee shall not transfer, cause or allow the transfer of gasoline from a gasoline tank truck into any stationary gasoline storage tank subject to Part 8.7 of the Rules and Regulations, unless the tank is equipped with a submerged fill pipe and the vapors are displaced from the storage tank during filling are processed by a vapor control system in accordance with Section 8.7.4 of the Rules and Regulations.	8.7.3
2.	The permittee shall not allow a gasoline tank truck subject to Part 8.20 of the Rules and Regulations, to be filled or emptied unless the gasoline tank truck has a vapor collection system that meets the test requirements of Paragraph 8.20.4(a) of the Rules and Regulations.	8.7.5(a)
3.	The permittee shall maintain written records of monthly throughput quantities in gallons and types of petroleum distillates in all stationary storage tanks.	8.7.5(b)
4.	The permittee shall submit to the Health Officer, as a minimum, an annual summary report of the record required in Condition No. 3	8.7.5(c)
5.	The permittee shall not cause or allow gasoline to be spilled, discarded in sewers, stored in open containers or handled in any other manner that would result in unnecessary evaporation of gasoline to the atmosphere.	8.7.6
6.	The permittee shall not allow gasoline to be handled in a manner that would result in vapor release to the atmosphere for extended periods of time. The permittee shall take all measures specified in 40 CFR 63.11116(a).	40 <u>CFR</u> 63.11116(a)
7.	The permittee shall not disconnect an existing vapor balance and shall maintain the system in proper working order in accordance with Part 8.7 of the Rules and Regulations even if the facility's average throughput decreases to less than 4,000 gallons.	8.7.7
8.	The permittee shall not allow a gasoline tank truck subject to Part 8.20 of the Rules and Regulations, to be filled or emptied unless the gasoline tank truck has a valid Jefferson County Department of Health Air Sticker attached and visibly displayed.	8.20.3(b)
9.	The permittee shall make calculations for the previous year's actual emissions of VOC from source permitted herein. The calculations shall be submitted to the Department by February 10 th each year. Concurrence with the calculations by the Department shall be the basis for determining the annual emissions fees.	18.2.3

<u>Facility No.</u>	<u>Emissions Unit No.</u>	<u>Emissions Unit Description</u>
0395	112	1,500 TPH Concord Raw Coal Screen, Storage Pile (Relocated), and Radial Stacker (The sources are subject to Subpart Y of 40 CFR 60.)

Permit Conditions for Emissions Unit No. 112

	<u>Federally Enforceable Conditions</u>	<u>Regulations</u>
1.	<p>The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the source permitted herein:</p> <p>A. Quantity of coal screened and stored; and B. Hours of operation of each process.</p>	18.2..3
2.	<p>The permittee shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal transfer and loading system processing coal, gases which exhibit 20% opacity or greater. The opacity shall be determined by EPA Reference Method 9 of appendix A of 40 CFR 60.</p>	40 CFR 60.254(a)
3.	<p>The permittee shall observe the loading system at least once each week the loading system operates. The observer shall permanently record the time and date of the observation, and the presence or absence of any visible emissions. If visible emissions are observed, corrective actions to eliminate the visible emissions shall be initiated within 1 hour. Within 24 hours of the completion of the corrective activities, the permittee shall again observe the loading system. If visible emissions are present, a certified observer shall complete an EPA Method 9 Visible Emissions Evaluation within 3 business days to establish compliance with the opacity limitation in Condition No. 2.</p> <p>The date, time, and type of corrective action initiated to eliminate the visible emissions and the date and time the corrective actions were completed shall be provided in the same record that contained the initial observation.</p>	<p>18.2.3</p> <p>40 CFR 70.6(a)(3)</p>
4.	<p>The permittee shall make calculations for the previous year's actual emissions of TSP, PM_{2.5}, and PM₁₀. The calculations shall be submitted to the Department by February 10th each year. Concurrence with the calculations by the Department shall be the basis for determining the annual emissions fees.</p>	18.2.3

<u>Facility No.</u>	<u>Emissions Unit No.</u>	<u>Emissions Unit Description</u>
0395	113	A 200 ton (No. 1 tank) and a 150 tons (No. 3 tank) Capacity Rock Dust Storage Silos with Bin Vent Dust Collectors

Permit Conditions for Emissions Unit No. 113

	<u>Federally Enforceable Conditions</u>	<u>Regulations</u>
1.	The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the source permitted herein: A. Quantity of limestone dust stored; and B. Hours of operation of each silo.	18.2..3
2.	The sources permitted herein shall each have an exhaust opacity not to exceed 20%, as determined by a 6-minute average. The opacity shall be determined by EPA Reference Method 9 of appendix A of 40 <u>CFR</u> 60.	18.2.3
3.	The permittee shall observe the dust collectors stacks during daytime material transfer to the silos. The observer shall permanently record the time and date of the observation, and the presence or absence of any visible emissions. If visible emissions are observed, corrective actions to eliminate the visible emissions shall be initiated within 1 hour. Within 24 hours of the completion of the corrective activities, the permittee shall again observe the loading system. If visible emissions are present, a certified observer shall complete an EPA Method 9 Visible Emissions Evaluation within 3 business days to establish compliance with the opacity limitation in Condition No. 2. The date, time, and type of corrective action initiated to eliminate the visible emissions and the date and time the corrective actions were completed shall be provided in the same record that contained the initial observation.	18.2.3 40 <u>CFR</u> 70.6(a)(3)
4.	The particulate matter emissions from each silo dust collector shall be limited to 0.34 lb/hr. If required by the Department, the particulate matter emissions rate shall be measured by EPA Reference Method 5 of appendix A of 40 <u>CFR</u> 60.	18.2.3
5.	The permittee shall make calculations for the previous year's actual emissions of TSP, PM _{2.5} , and PM ₁₀ . The calculations shall be submitted to the Department by February 10 th each year. Concurrence with the calculations by the Department shall be the basis for determining the annual emissions fees.	18.2.3

Facility
No.

Emissions
Unit No.

Emissions Unit Description

0395

114

Internal Combustion Engines:

Generators (Permitted as emergency generators)

Waukesha Model 5790DSI, 1232 HP CI Engines (Engine No. 2)
Caterpillar Model D399, 1380 HP, CI Engine (Engine No. 3)
Caterpillar Model D3516, 1085 HP, CI Engine (Engine No. 4)
2-Cummins Model QST-30, 1320HP CI Engines (Engine Nos. 5 and 6)
Cummins Model KTA2300GS, 1350 HP CI Engine (Engine No. 7)
2-White Model 400, 110 HP CI Engine (Engine Nos. 8 and 9)
John Deere Model 6068DF150, 150 HP CI Engine (Engine No. 10)
2-Cummins Model QSK60-G6, 2095 HP CI Engines (Engine Nos. 11 and 12)
John Deere Model 6090HF485-315, 422 HP CI Engine (Engine No. 13)
Cummins Model QST-30, 1200 HP CI Engine (Engine No. 14)
Cummins Model QSB5, 176 HP CI Engine (Engine No. 15)
Cummins Model QST-30-G5, 1200 HP CI Engines (Engine No. 16)
Generac Model OHVI V-twin 992cc, 17 HP SI Engine (Engine No. 17)
Cummins Model QSB7-G5-NR3, 324 HP CI Engine (Engine No. 18)

Permit Conditions for Emissions Unit No. 114

	Federally Enforceable Conditions	Regulations
1.	The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the source permitted herein: A. Quantity of Diesel fuel, with sulfur content, combusted in each CI engine; B. Quantity of natural gas combusted in Generac SI engine; and C. Hours of operation of each internal combustion engine.	18.2..3
2.	Each source permitted herein shall have an exhaust opacity not to exceed 20%, as determined by a 6-minute average, or as otherwise provided in Section 6.1.1 of the Rules and Regulations. The opacity shall be determined by EPA Reference Method 9 of appendix A of 40 <u>CFR</u> 60. The opacity standard in this condition shall apply at all times except during periods of startup, shutdown, and malfunction	6.1.1 6.1.1(c)
3.	Engine Nos. 5, 6, 10, 14, 15, 16, and 18 permitted herein shall be certified to meet the 40 <u>CFR</u> 89.118 and 40 <u>CFR</u> 119 emission standards. Permittee shall maintain on site documentation of certification for each listed engine. The permittee must operate and maintain these engines according to the manufacturer's emission related written instructions.	40 <u>CFR</u> 60.4205(b), 40 <u>CFR</u> 60.4202(a)(2), 40 <u>CFR</u> 60.4011(a)
4.	Engine No. 17 (Classified as Class II engine under 40 <u>CFR</u> 1054) shall be certified to meet the 40 <u>CFR</u> 90 emissions standards. The Permittee shall maintain on site documentation of certification for the engine.	40 <u>CFR</u> 60.4231(a), 40 <u>CFR</u> 60. 90
5.	Engines covered in Condition Nos. 3 and 4 are not subject to the requirements of Subpart ZZZZ as they are subject to subparts IIII and JJJJ of 40 <u>CFR</u> 60.	40 <u>CFR</u> 63.6590(c)

6.	For engine Nos.2, 3, 4, 7, 8, 9, 11, and 12 the permittee shall perform the following and keep records of such for 5 years following the date of each record: a. Change oil and filter every 5,000 hours of operation or annually, whichever comes first; b. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first; and replace as necessary c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	40 <u>CFR</u> 63.6603(a), Table 2d 40 <u>CFR</u> 63.6655
7.	The permittee must minimize each CI engine's time spent at idle during startup and minimize each engine's startup time to a period needed for appropriate and safe loading of each engine not to exceed 30 minutes, after which time the non-startup emission limitations apply.	40 <u>CFR</u> 63.6625(h)
8.	The sulfur content of the diesel fuel burned in each generator, except Generator No, 17, shall not exceed 15 ppm per gallon of fuel or 0.0015% sulfur by weight as required in 40 <u>CFR</u> 80.510(b).	40 <u>CFR</u> 60.4207, 40 <u>CFR</u> 63.6604
9.	Each engine permitted herein shall be limited to operate a maximum of 500 hours per year.	18.2..3
10.	The permittee shall install a non-resettable hour meter and maintain a record of hours of operation of each engine permitted herein.	18.2.3, 40 <u>CFR</u> 60.4209(a), 40 <u>CFR</u> 60.4237, 40 <u>CFR</u> 63.6655
11.	The permittee shall make calculations for the previous year's actual emissions of TSP, PM _{2.5} , and PM ₁₀ , CO, VOC, NOX, SO _x , and HAPs. The calculations shall be submitted to the Department by February 10 th each year. Concurrence with the calculations by the Department shall be the basis for determining the annual emissions fees.	18.2.3

Facility
No.

Emissions
Unit No.

Emissions Unit Description

0395

115

Internal Combustion Engines:

Compressors

Caterpillar Model G3408TA, 400 HP Rich Burn SI Engine
Caterpillar Model G3306TA, 203 HP Rich Burn SI Engine

Permit Conditions for Emissions Unit No. 115

	Federally Enforceable Conditions	Regulations
1.	The permittee shall submit by February 10th of each calendar year to this Department an annual summary report for the previous calendar year in a format approved by this Department of the following production information of the source permitted herein: A. Quantity of natural gas used in each SI engine; and B. Hours of operation of each internal combustion engine.	18.2..3
2.	Each source permitted herein shall have an exhaust opacity not to exceed 20%, as determined by a 6-minute average, or as otherwise provided in Section 6.1.1 of the Rules and Regulations. The opacity shall be determined by EPA Reference Method 9 of appendix A of 40 <u>CFR</u> 60.	6.1.1
3.	The permittee shall perform the following on each engine permitted herein and maintain records of such for 5 years following date of each record: a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first and replace as necessary; and c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	40 <u>CFR</u> 63.6603(a) 40 <u>CFR</u> 63.6655
4.	The permittee shall have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Condition No. 3. The oil analysis must be performed at the same frequency specified for changing the oil in Condition No. 3. The permittee must comply with the requirements in 40 <u>CFR</u> 63.6625(j) during performing an oil analysis. The oil analysis program must be part of the maintenance plan for the engines permitted herein.	40 <u>CFR</u> 63.6625(j)
5.	The permittee must minimize each engine's time spent at idle during startup and minimize each engine's startup time to a period needed for appropriate and safe loading of each engine not to exceed 30 minutes.	40 <u>CFR</u> 63.6625(h)
6.	The permittee shall make calculations for the previous year's actual emissions of TSP, PM _{2.5} , and PM ₁₀ , CO, VOC, NOX, SOx, and HAPs. The calculations shall be submitted to the Department by February 10 th each year. Concurrence with the calculations by the Department shall be the basis for determining the annual emissions fees.	18.2.3

APPENDIX A – CAM REQUIREMENTS

APPENDIX A

CAM for Thermal Dryer - Oak Grove Resources, LLC

I. Background

A. Emissions Unit 101

Description: 700 TPH Fluidized Bed Thermal Coal Dryer and Coal-Fired Furnace with 4 Common Dry Cyclones and a 224,389 SCFM Wet Scrubber

Permit No.: 4-07-0395-04

Facility: Oak Grove Resources, LLC-Oak Grove System
Concord Coal Preparation Plant

B. Applicable Requirement

Opacity: Less than 20 percent (Subpart Y of 40 CFR 60)

PM: 0.031gr/dscf (Subpart Y of 40 CFR 60)

Monitoring

Requirements: Visible emissions, scrubber pressure drop/loss, thermal dryer temperature (gas exit stream), scrubber water supply pressure, scrubber water flow rate, inspection and maintenance program

C. Control Technology

4 Common Dry Cyclones and a 224,389 SCFM Wet Scrubber

Indicator	Indicator No. 1	Indicator No. 2	Indicator No. 3	Indicator No. 4	Indicator No. 5	Indicator No. 6
	Visible Emissions	Scrubber Pressure Drop/Loss shall be a 1-hour average of minimum of 10-minute intervals.	Thermal Dryer Temperature (Gas Exit Stream)	Scrubber Water Supply Pressure	Scrubber Inlet Water Flow Rate shall be a 1-hour average of minimum of 10-minute intervals.	Inspection and Maintenance Program; Work Practice
Measurement Approach	Visible emissions observations are performed per Method 9 on a weekly basis.	The scrubber pressure drop is monitored with an electronic differential pressure gauge and transmitter.	The thermal dryer gas exit stream temperature is monitored with a thermocouple.	The scrubber water supply pressure is monitored with a pressure gauge.	The scrubber water flow rate is monitored with a flow meter.	Inspection and Maintenance of the differential pressure gauge, thermal dryer gas exit temperature thermocouple; pressure gauge (water pressure); and flow meter
Indicator Range	An excursion is defined as any period in which opacities are observed to be 20% or greater. An excursion will trigger an investigation of the occurrence, corrective action, and a reporting requirement.	An excursion is defined as differential pressure reading less than 41.0 in. w.g. An excursion will trigger an investigation of the occurrence, corrective action, and a reporting requirement.	An excursion is not defined.	An excursion is not defined.	An excursion is defined as a flow reading below 3,000 gallons per minute. An excursion will trigger an investigation of the occurrence, corrective action, and a reporting requirement.	An excursion is defined as failure to perform periodic checkup of designated equipment. An excursion will trigger an investigation of the occurrence, corrective action, and a reporting requirement.
Performance Criteria; Data Representativeness	Measurements will be made at the emissions point.	Measurements will be made at the venturi section of the scrubber. The acceptance criterion is ± 1 inch w.g.	Measurements will be made at the exit of the thermal dryer. The acceptance criterion is ± 30 Fahrenheit.	Measurements will be made close to the water discharge point. The acceptance criterion is $\pm 5\%$ of the acceptable	Measurements will be made using a flow meter located in the scrubber water inlet line. The minimum acceptable accuracy of the meter is $\pm 5\%$ of the acceptable water flow	Not applicable

	Indicator No. 1	Indicator No. 2	Indicator No. 3	water supply pressure.	rate.	Indicator No. 6
Verification of Operational Status	Indicator No. 1 Not applicable	Indicator No. 2 Not applicable	Indicator No. 3 Not applicable	Indicator No. 4 Not applicable	Indicator No. 5 Not applicable	Indicator No. 6 Not applicable
QA/QC Practices and Criteria	The observer will be Method 9 trained and follow Method 9 procedures.	Accuracy of the differential pressure gauge will be verified by the manufacturer's certification. A validation check will be performed at least annually. The acceptance criterion is ± 1 inch w.g.	Accuracy of the thermocouple will be verified by the manufacturer's certification. A validation check will be performed at least annually. The acceptance criterion is $\pm 3^{\circ}$ Fahrenheit.	Accuracy of the gauge will be verified by the manufacturer's certification. A validation check will be performed at least annually. The acceptance criterion is $\pm 5\%$ of the design water supply pressure.	Accuracy of the flow meter will be verified by the manufacturer's certification. A validation check will be performed at least annually. The acceptance criterion is $\pm 5\%$ of the acceptable water flow rate.	Not applicable
Monitoring Frequency	Weekly, six-minute average Method 9 observation will be performed.	Continuously	Continuously	Continuously	Continuously	Semiannually; Periodic
Data Collection Procedure	Weekly Retained 5 years	Continuously electronically recorded Retained 5 years.	Continuously electronically recorded Retained 5 years	Continuously electronically recorded Retained 5 years	Continuously electronically recorded. Retained 5 years.	Results recorded in company files in a readily accessible format. Retained 5 years
Averaging Period	6-Minutes	1-hour average of minimum of 10-minute intervals.	No average is taken.	No average is taken.	1-hour average of minimum of 10-minute intervals.	Not applicable