

# The Chemours Company FC, LLC

## Chemours - Highland

Facility ID No. 0070001  
Bradford County

### Title V Air Operation Permit Revision

**Permit No. 0070001-012-AV**

(Revision of Title V Air Operation Permit No. 0070001-008-AV)



#### **Permitting Authority:**

State of Florida

Department of Environmental Protection  
Northeast District Permitting Program  
8800 Baymeadows Way West, Suite 100  
Jacksonville, FL 32256

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## Title V Air Operation Permit Revision

Permit No. 0070001-012-AV

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Permit No. 0070001-012-AV  
Chemours - Highland  
Facility ID No. 0070001  
Title V Air Operation Permit Revision

The purpose of this permit is to revise Title V air operation permit to incorporate Air Construction Permit 0070001-010-AC which authorized the replacement of the existing fuel oil burner with a 23 MMBtu/hr natural gas burner in the existing Ilmenite Dryer (Emission Unit 001) and removed the requirement to submit operational data and recordkeeping along with the Annual Operating Report for Emission Unit 001 for the above referenced facility. The existing Chemours – Highland facility is located in Bradford County 1.2 miles east of U.S. Highway 301 on 125, north of Lawtey. UTM Coordinates are: Zone 17, 398.70 km East and 3325.00 km North. Latitude is: 30° 03' 12" North; and, Longitude is: 82° 03' 04" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

0070001-008-AV Effective Date: June 17, 2014  
0070001-012-AV Effective Date: March 13, 2018  
Renewal Application Due Date: November 4, 2018  
Expiration Date: June 17, 2019

A handwritten signature in blue ink, appearing to read "T. Kallemeyn".

Thomas G. Kallemeyn  
Permitting Program Administrator

TK/sjb

## SECTION I. FACILITY INFORMATION.

### **Subsection A. Facility Description.**

This facility mines and processes heavy mineral sand (Ilmenite, Zircon, Staurolite). The facility contains a natural gas fired rotary dryer, dry cyclone, a feed system, and a load-out system.

Feed to the rotary dryer comes from the stockpile of scrubbed wet mill concentrate via the hopper, bin loading belt conveyor, disk feeder bin and the dryer feed belt conveyor. The dried heavy mineral sands are discharged onto a conveyor and taken in to the dry processing facility. The dry cyclone is used for product recovery. The cyclone undersize is then wet to control fugitive emissions and returned to a wet settling pond.

The dried mineral sands are sent to other plants for processing to titanium dioxide.

The heavy mineral sand is not milled for size reduction in any of the processes and is only physically separated from the quartz sands by gravity prior to introduction to the rotary dryer.

The following is a brief description of the facility emissions units:

Ilmenite Dryer. This emissions unit consists of a rotary dryer with a maximum process rate of 76.16 tons per hour of dry mineral sand and a maximum heat input rate of 23 MMBtu per hour. Heat is provided by the burning of natural gas. A cyclone is used for product recovery and exhaust gases are emitted through a single vertical stack.

Product Handling and Transfer Operations Fugitive Emissions. This emissions unit consists of various screens, bucket elevators, storage bins, belt conveyors, and a loading station.

Portable Screening System. This is a screening system (manufacturer: McCloskey International, Model: MCB-516RE) that consists of a Caterpillar (95 KW, 2200 rpm) non road diesel engine, feed hopper, screener and multiple conveyor belts. The screener is used to reclaim metallic minerals from previously processed material. The ore piles are in the open and have a significant amount of moisture. A mobile excavator is used to pick up the material and drops it into the screen hopper. The open screen separates the material and has an integral belt conveyor that drops the material into a truck for load out. A similar conveyor drops the oversize material onto another material pile.

#### Internal Combustion Engine

One Caterpillar (95 KW, 2200 rpm) non-emergency use diesel engine for the portable screening system.

The engine was built on June 15, 2006, and is certified by manufacturer according to 40 CFR part 89 or 40 CFR part 94, and meets the emissions standards of 40 CFR 60.4204 (a).

Also included in this permit are miscellaneous unregulated and insignificant emissions units and/or activities.

### **Subsection B. Summary of Emissions Units.**

EU No.	Brief Description
<i>Regulated Emissions Units</i>	
001	Ilmenite Dryer
002	Product Handling and Transfer Operations Fugitive Emissions
003	Portable Screening System
004	Non-emergency use Internal Combustion Engine for E.U. 003
<i>Unregulated Emissions Units and Activities</i> (see Appendix U, List of Unregulated Emissions Units and/or Activities)	
XXX*	*See Appendix U-1, List of Unregulated Emissions Units and Activities

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## SECTION I. FACILITY INFORMATION.

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Also included in this permit are miscellaneous insignificant emissions units and/or activities (see Appendix I, List of Insignificant Emissions Units and/or Activities).

### **Subsection C. Applicable Regulations.**

Based on the Title V air operation permit revision application received October 24, 2017, this facility is not a major source of hazardous air pollutants (HAP). The existing facility is not a prevention of significant deterioration (PSD) major source of air pollutants in accordance with Rule 62-212.400, F.A.C. After implementation of Air Construction Permit 0070001-010-AC, SO<sub>2</sub> emissions are below PSD major levels. A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
<i>Federal Rule Citations</i>	
40 CFR 60, Subpart A, NSPS General Provisions	002, 003, 004
40 CFR 60, Subpart LL	002, 003
40 CFR 60, Subpart IIII	004
40 CFR 63, Subpart A, NESHAP General Provisions	004
40 CFR 63, Subpart ZZZZ	004
<i>State Rule Citations</i>	
State Rule Citations Rule 62-296.320(4), F.A.C., Rule 62-297.310(5)	001, 002, 003, 004

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## SECTION II. FACILITY-WIDE CONDITIONS.

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**The following conditions apply facility-wide to all emission units and activities:**

**FW1. Appendices.** The permittee shall comply with all documents identified in Section IV, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

### **Emissions and Controls**

**FW2. Not federally Enforceable. Objectionable Odor Prohibited.** No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An “objectionable odor” means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

**FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions.** The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]

**FW4. General Visible Emissions.** No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b), F.A.C.]

**FW5. Unconfined Particulate Matter.** No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

- Paved roadways; application of water to unpaved roads.
- Landscaping or planting of vegetation.
- Use of enclosures and windbreaks, where practical.

[Rule 62-296.320(4)(c), F.A.C.; and Construction Permit No. 0070001-004-AC.]

### **Reports and Fees**

See Appendix RR, Facility-wide Reporting Requirements for additional details.

**FW6. Electronic Annual Operating Report and Title V Annual Emissions Fees.** The information required by the Annual Operating Report for Air Pollutant Emitting Facility [Including Title V Source Emissions Fee Calculation] (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Department of Environmental Protection’s (DEP) Division of Air Resource Management. Each Title V source shall submit the annual operating report using the DEP’s Electronic Annual Operating Report (EAOR) software, unless the Title V source claims a technical or financial hardship by submitting DEP Form No. 62-210.900(5) to the DEP Division of Air Resource Management instead of using the reporting software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. Each Title V source must pay between January 15 and April 1 of each year an annual emissions fee in an amount determined as set forth in subsection 62-213.205(1), F.A.C. The annual fee shall only apply to those regulated pollutants, except carbon monoxide and greenhouse gases, for which an allowable numeric emission-limiting standard is specified in the source’s most recent construction permit or operation permit. Upon completing the required EAOR entries, the EAOR Title V Fee Invoice can be printed by the source showing which of the reported emissions are subject to the fee and the total Title V Annual Emissions Fee that is due. The submission of the annual Title V emissions fee payment is also due (postmarked) by April 1<sup>st</sup> of each year. A copy of the system-generated EAOR Title V Annual Emissions Fee

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## SECTION II. FACILITY-WIDE CONDITIONS.

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Invoice and the indicated total fee shall be submitted to: **Major Air Pollution Source Annual Emissions Fee, Post Office Box 3070, Tallahassee, Florida 32315-3070.** Additional information is available by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: <http://www.dep.state.fl.us/air/emission/tvfee.htm>. [Rules 62-210.370(3), 62-210.900 & 62-213.205, F.A.C.; and, §403.0872(11), Florida Statutes (2013)]

*{Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: <http://www.dep.state.fl.us/air/emission/eaor>. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at [eaor@dep.state.fl.us](mailto:eaor@dep.state.fl.us).}*

*{Permitting Note: The Title V Annual Emissions Fee form (DEP Form No. 62-213.900(1)) has been repealed. A separate Annual Emissions Fee form is no longer required to be submitted by March 1st each year.}*

**FW7. Annual Statement of Compliance.** The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit and to the US. EPA at the address shown below within 60 days after the end of each calendar year during which the Title V air operation permit was effective. (See also Appendix RR, Conditions RR1 and RR7.) [Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

U.S. Environmental Protection Agency, Region 4  
Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303  
Attn: Air Enforcement Branch

**FW9. Prevention of Accidental Releases (Section 112(r) of CAA).** If, and when, the facility becomes subject to 112(r), the permittee shall:

- a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent electronically through EPA's Central Data Exchange system at the following address: <https://cdx.epa.gov>. Information on electronically submitting risk management plans using the Central Data Exchange system is available at: <http://www2.epa.gov/rmp>. The RMP Reporting Center can be contacted at: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.
- b. Submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68]

**FW8. Semi-Annual Monitoring Reports.** The permittee shall monitor compliance with the terms and conditions of this permit and shall submit reports of any deviations from the requirements of these conditions at least every six (6) months. All instances of deviations from permit requirements must be clearly identified in such reports, including reference to the specific requirement and the duration of such deviation. All reports shall be accompanied by a certification by a responsible official, pursuant to subsection 62-213.420(4), F.A.C. (See also Conditions RR2. – RR4. of Appendix RR, Facility-wide Reporting Requirements, for additional reporting requirements related to deviations.) [Rule 62-213.440(1)(b)3.a., F.A.C.]

*{Permitting Note: EPA has clarified that, pursuant to 40 CFR 70.6(a)(3), the word "monitoring" is used in a broad sense and means monitoring (i.e., paying attention to) the compliance of the source with all emissions limitations, standards, and work practices specified in the permit.}*

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection A. Emissions Unit 001 Ilmenite Dryer with Cyclone

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
001	Ilmenite Dryer with Cyclone for Product Recovery

The Ilmenite Dryer operates at a maximum production rate of 76.16 tons per hour of heavy mineral sands. Heat is provided by the burning of natural gas for a maximum heat input rate of 23 MMBtu per hour.

#### **Essential Potential to Emit (PTE) Parameters**

- A.1. Permitted Capacity.** The maximum production rate shall be 76.16 tons per hour of dried Ilmenite ore.  
[Rules 62-4.160(2), 62-210.200(PTE), F.A.C., and Application No. 0070001-010-AC]
- A.2. Permitted Capacity.** The maximum heat input rate for this emissions unit shall not exceed 23 MMBtu per hour.  
[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), and Permit No. 0070001-010-AC.]
- A.3. Emissions Unit Operating Rate Limitation After Testing.** See the related testing provisions in Appendix TR, Facility-wide Testing Requirements.  
[Rule 62-297.310(3), F.A.C.]
- A.4. Authorized Fuel.** The dryer is authorized to fire natural gas only.  
[Air Construction Permit No. 0070001-010-AC and Rule 62-210.200(PTE), F.A.C.]
- A.5. Hours of Operation.** This emissions unit may operate continuously (8,760 hours/year).  
[Rule 62-210.200(PTE), F.A.C. and Permit No. 0070001-010-AC]

#### **Emission Limitations and Standards**

*{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

Unless otherwise specified, the averaging time for Specific Condition A.6 is based on the specified averaging time of the applicable test method.

- A.6. General Visible Emissions Standard.** No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than 20 percent opacity. No annual visible emissions testing is required.  
[Rule 62-296.320(4)(b)1., F.A.C.]
- A.7. Sulfur Dioxide.** Sulfur Dioxide emissions will be controlled by the firing of natural gas.  
[Air Construction Permit 007001-010-AC]

#### **Excess Emissions**

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

- A.8. Excess Emissions Allowed.** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.  
[Rule 62-210.700(1), F.A.C.; and, Permit No. 0070001-010-AC]



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### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

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#### Subsection A. Emissions Unit 001 Ilmenite Dryer with Cyclone

##### **Monitoring of Operations**

- A.9. Operational Data.** A record of operational data for this emissions unit shall be maintained on site, and made available during inspection if requested.

The report shall include the following minimum data:

- Hours of Operation (each month total for a combined hours/year),
- Yearly process input rate (each month total for a combined tons/year),
- Yearly natural gas usage (each month total for a combined MMCF/year).

[Air Construction Permit 0070001-010-AC]

##### **Test Methods and Procedures**

*{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

- A.10. Test Methods.** When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rule 62-204.800, F.A.C., and, AC No. 0070001-010-AC]

- A.11. VE Compliance Tests.** Upon the Department's request, when a test is required, the test method for visible emissions shall be EPA Method 9, incorporated and adopted by reference in Rule 62-297, F.A.C.

[Rule 62-297.310(8)(c), F.A.C.]

- A.12. Test Requirements.** When testing is required, the permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit.

[Rule 62-297.310(9), F.A.C.]

##### **Recordkeeping and Reporting Requirements**

- A.13. Test Reports.** The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate the maximum production rate.

[Rule 62-297.310(10), F.A.C.]

- A.14. Operational Data.** A record of operational data for this emissions unit shall be maintained on site, and made available during inspection if requested.

The report shall include the following minimum data:

- Hours of Operation (each month total for a combined hours/year),
- Yearly process input rate (each month total for a combined tons/year),
- Yearly natural gas usage (each month total for a combined MMCF/year).

[Rule 62-4.070(3), F.A.C.]

### **SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

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#### **Subsection A. Emissions Unit 001 Ilmenite Dryer with Cyclone**

##### **Other Requirements**

**A.15.** This facility is also subject to the requirements of the attached Combined Appendices.

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection B. Emissions Unit 002 Product Handling and Transfer Operations

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
002	Product Handling and Transfer Operations
Em. Pnt. No.	Brief Description of Emissions Point
01 - 06	# 1 Screen - # 6 Screens
07	# 1A Elevator
08 - 010	# 15 #16 & # 17 Elevators
011-012	# 1 & # 2 Belt Conveyors
013	# 31 Belt Conveyor
014 - 015	# 1 & # 2 Storage Bins
016	# 4 Loading Station

The Processing Plant operates various sources of NSPS fugitive emissions at a rate necessary to maintain a maximum production rate of 76.16 tons per hour of dried Ilmenite ore.

Permitting note(s): The identified emissions points are regulated under NSPS - 40 CFR 60, Subpart LL, Standards of Performance for Metallic Mineral Processing Plants, adopted and incorporated by reference in Rule 62-204.800, F.A.C.}

#### **Essential Potential to Emit (PTE) Parameters**

**B.1. Permitted Capacity.** The maximum production rate shall be 76.16 tons per hour of dried Ilmenite ore

[Rules 62-4.160(2) and 62-210.200, (PTE), F.A.C.]

**B.2. Emissions Unit Operating Rate Limitation After Testing.** See the related testing provisions in Appendix TR, Facility-wide Testing Requirements.

[Rule 62-297.310(3), F.A.C.]

**B.3. Hours of Operation.** This emissions unit may operate continuously (8,760 hours/year).

[Rule 62-210.200(PTE), F.A.C. and Permit No. 0070001-010-AC]

#### **Emission Limitations and Standards**

*{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

Unless otherwise specified, the averaging time for Specific Condition B.3 is based on the specified averaging time of the applicable test method.

**B.4. Particulate Matter.** Process fugitive emissions that exhibit greater than 10% opacity shall not be discharged into the atmosphere from each of the emissions points.

[40 CFR 60.382(b) and Rule 62-204.800(8), F.A.C.]

**B.5. Opacity.** EPA Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity from stack emissions and process fugitive emissions. The observer shall read opacity only when emissions are clearly identified as emanating solely from the affected facility being observed. The duration of the test shall be at least 30 minutes except that for batch, cyclical processes, or other operations that are typically completed within less than the minimum observation period, the period of observation shall include each occurrence of the operation during the minimum observation period. A single visible emission observer may

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection B. Emissions Unit 002 Product Handling and Transfer Operations

conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval. This option is subject to the following limitations:

- (i) No more than three emission points are read concurrently;
- (ii) All three emission points must be within a 70° viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points; and
- (iii) If an opacity reading for any one of the three emission points is within 5 percent opacity of the application standard, then the observer must stop taking readings for the other two points and continue reading just that single point.

[40 CFR 60.386(b)(2), Rule 62-297.310(5)(b), F.A.C. and Rule 62-204.800(8), F.A.C.]

#### **Test Methods and Procedures**

*{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

**B.6. Test Methods.** When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[40 CFR 60.386(b)(2) and Rule 62-204.800, F.A.C.]

**B.7. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.

[Rule 62-297.310, F.A.C.]

**B.8. Annual Compliance Tests Required.** During each calendar year (January 1<sup>st</sup> to December 31<sup>st</sup>), each EU shall be tested to demonstrate compliance with the emissions standards for visible emissions.

[40 CFR 60.386(b)(2), Rule 62-297.310(8), F.A.C. and Rule 62-204.800(8), F.A.C.]

*{Permitting Note: Emissions Points 01, 02, 03, 04, 06, 07, 08, 09, 010, and 013 are vented indoors and opacity testing may be required. DEP reserves the right to require the modification of construction and operation permits to accommodate testing requirements based on the EPA 04/04/2003, letter and any additional instruction from EPA and/or the Division of Air. If such determination is made, the permittee will be required to submit all necessary permit applications and publish required "Public Notices".}*

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection C. Emissions Unit 003 Portable Screening System

##### Subsection C. The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
003	Portable Screening System
Em. Pnt. No.	Brief Description of Emissions Point
01	Feed Hopper
02	Screener
03	Transfer point from screen to reject belt
04	Transfer point from under belt to discharge belt

This is a screening system (manufacturer: McCloskey International, Model: MCB-516RE) that consists of a Caterpillar (95 KW, 2200 rpm) non road diesel engine, feed hopper, screener and multiple conveyor belts. The screener is used to reclaim metallic minerals from previously processed material. The ore piles are in the open and have a significant amount of moisture. A mobile excavator is used to pick up the material and drops it into the screen hopper. The open screen separates the material and has an integral belt conveyor that drops the material into a truck for load out. A similar conveyor drops the oversize material onto another material pile.

The unit is subject to:

- New Source Performance Standards (NSPS), Subpart LL - Standards of Performance for Metallic Mineral Processing Plants, adopted and incorporated by reference in Rule 62-204.800, F.A.C.

##### **Essential Potential to Emit (PTE) Parameters**

**C.1. Permitted Capacity.** The maximum throughput rate for the screener shall not exceed 200 tons per hour:

[Rules 62-4.160(2), 62-210.200(PTE), F.A.C. and Air Construction Permit 0070001-005-AC]

**C.2. Emissions Unit Operating Rate Limitation After Testing.** See the related testing provisions in Appendix TR, Facility-wide Testing Requirements.

[Rule 62-297.310(3), F.A.C.]

**C.3. Hours of Operation.** This emissions unit may operate continuously (8,760 hours/year).

[Rules 62-4.160(2), 62-210.200(PTE), F.A.C. and Air Construction Permit 0070001-005-AC]

##### **Emission Limitations and Standards**

*{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

Unless otherwise specified, the averaging time for Specific Condition C.4 is based on the specified averaging time of the applicable test method.

**C.4. Visible Emissions.** The owner or operator shall NOT cause to be discharged into the atmosphere from each emissions point any process fugitive emissions that exhibit greater than 10 percent opacity.

[40 CFR 60.382(b) and Rule 62-204.800(8), F.A.C.]

**C.5. Opacity.** The test method for the visible emissions shall be EPA Method 9 as specified in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. The duration of the test shall be at least 30 minutes except that for batch, cyclical processes, or other operations that are typically completed within less than the minimum observation period, the period of observation shall include each occurrence of the operation during the minimum observation period.

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection C. Emissions Unit 003 Portable Screening System

The observer shall read opacity only when emissions are clearly identified as emanating solely from the affected facility being observed. A single visible emission observer may conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval. This option is subject to the following limitations:

- (i) No more than three emission points are read concurrently;
- (ii) All three emission points must be within a 70° viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points; and
- (iii) If an opacity reading for any one of the three emission points is within 5 percent opacity of the application standard, then the observer must stop taking readings for the other two points and continue reading just that single point.

[40 CFR 60.386(b)(2), Rule 62-297.310(5)(b), F.A.C. and Rule 62-204.800(8), F.A.C.]

#### **Test Methods and Procedures**

*{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

**C.6. Test Methods.** When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[40 CFR 60.386(b)(2) and Rule 62-204.800, F.A.C.]

**C.7. Common Testing Requirements.** Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit.

[Rule 62-297.310, F.A.C.]

**C.8. Annual Compliance Tests Required.** During each calendar year (January 1<sup>st</sup> to December 31<sup>st</sup>), each EU shall be tested to demonstrate compliance with the emissions standards for visible emissions.

[Rule 62-297.310(8), F.A.C.]

#### **Other Requirements**

**C.9. Relocation Notification.** The owner or operator shall notify the Department either by fax, telephone or letter prior to relocating the unit to other location. [Air Construction Permit No. 0070001-005-AC]

**C.10.** This emissions unit is also subject to the applicable requirements of 40 CFR 60 Subpart A, General Provisions.

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection D. Emissions Unit 004 Internal Combustion Engine

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
004	Non-emergency Use Internal Combustion Engine for E.U. 003

*{Permitting Note: New Source Performance Standards (NSPS), Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. National Emissions Standards for Hazardous Air Pollutants (NESHAP), Subpart ZZZZ for Stationary Reciprocating Internal Combustion Engines. The engine was built on June 15, 2006, and is certified by manufacturer according to 40 CFR part 89 or 40 CFR part 94, and meets the emissions standards of 40 CFR 60.4204 (a).}*

#### **Essential Potential to Emit (PTE) Parameters**

**D.1. Permitted Capacity.** The power rating for the engine is 95 KW and 2200 rpm.

[Rules 62-4.160(2) and 62-210.200(PTE) F.A.C.]

**D.2. Hours of Operation.** This emissions unit may operate continuously (8,760 hours/year).

[Rule 62-210.200(PTE), F.A.C.; and, Permit No. 0070001-005-AC]

#### **Emission Limitations and Work Practice Standards**

*{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

Unless otherwise specified, the averaging time for Specific Condition **D.3** is based on the specified averaging time of the applicable test method.

**D.3. NO<sub>x</sub> Emissions.** Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 9.2 g/KW-hr or 6.9 g/HP-hr.

[40 CFR 60.4204 (a), and Table 1 of NSPS, Subpart IIII and Rule 62-204.800(8), F.A.C.]

**D.4. Operation & Maintenance.** Owners and operators shall operate and maintain the units according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

[40 CFR 60.4206 and Rule 62-204.800(8), F.A.C.]

**D.5. Fuel Requirements.** The owner or operator shall comply with the following fuel diesel fuel requirements.

Beginning October 1, 2010, owners and operators shall use diesel fuel that meets the following per-gallon standards:

- i. Sulfur Content. 15 ppm maximum for Non Road (NR) diesel fuel. 500 ppm maximum for Locomotive and Marine (LM) diesel fuel.
- ii. Cetane index or aromatic content, as follows:  
A minimum cetane index of 40; or  
A maximum aromatic content of 35 volume percentage.

[40 CFR 60.4207 (a) & (b), 40 CFR 80.510 (a) & (b) and Rule 62-204.800(8), F.A.C.]

#### **Monitoring of Operations**

**D.6. Monitoring.** If the engine is equipped with a diesel particulate filter to comply with the emission standards, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

### SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

#### Subsection D. Emissions Unit 004 Internal Combustion Engine

##### Test Methods and Procedures

*{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}*

**D.7.** The owner or operator shall operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. The owner or operator shall also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to the units.

[40 CFR 60.4211 (a) and Rule 62-204.800(8), F.A.C.]

**D.8.** Compliance Certification. The owner or operator shall comply by purchasing an engine certified to the emission standards as described by **Specific Condition No. D.3**. The engine must be installed and configured according to the manufacturer's specifications.

**D.9.** Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

[Rule 62-297.310(8)(c), F.A.C.]

**D.10.** Test Method. The owner or operator shall conduct the performance tests according to procedures as described below if special compliance tests are requested by the Department pursuant to **Specific Condition No. D.9**.

- (a) The performance test must be conducted according to the in-use testing procedures in 40 CFR Part 1039, Subpart F.
- (b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.
- (c) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \quad (\text{Eq. 1})$$

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in 40 CFR 60.4213 of this subpart, as appropriate.

[40 CFR 60.4212 and Rule 62-204.800(8), F.A.C.]



### **SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.**

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#### **Subsection D. Emissions Unit 004 Internal Combustion Engine**

##### **Recordkeeping Requirements**

**D.11. Recordkeeping – PM Filter.** If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator shall keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.

[40 CFR 60.4214(c) and Rule 62-204.800(8), F.A.C.]

**D.12. Recordkeeping – Fuel.** The owner or operator shall keep record of fuel oil analysis for each batch of diesel fuel purchased. The owner or operator shall also keep record of fuel usage.

[Air Construction Permit 0070001-005-AC]

**D.13.** This emissions unit is also subject to the applicable requirements of 40 CFR 60 Subpart A, General Provisions.