



NON-METALLIC MINERAL PROCESSING PLANTS



COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2) COMPLAINT/DISCOVERY (CI)
 RE-INSPECTION (FUI) ARMS COMPLAINT NO. _____

AIRS ID#: 7775374 **DATE:** 09-03-08 **ARRIVE:** 10:00 **DEPART:** 11:30

FACILITY NAME: Polk County Crushing

FACILITY LOCATION: 1380 42nd St NW
Winter Haven, FL 33881

OWNER/AUTHORIZED REPRESENTATIVE: _____ **PHONE:** _____

CONTACT NAME: Danny McKarahan **PHONE:** (863) 965-8296

ENTITLEMENT PERIOD: From: 12/18/06 To: 12/18/11

PART I: INSPECTION COMPLIANCE STATUS (check only one box)

IN COMPLIANCE MINOR Non-COMPLIANCE SIGNIFICANT Non-COMPLIANCE

PART II: DETERMINATION OF FACILITY TYPE/APPLICABILITY

(check only one box)

FOR FACILITIES SUBJECT TO: (40 CFR Part 60, Subpart OOO, §60.670(a)(1))

(If you have checked this category, answer all questions INCLUDING those with **.)

Subject Facilities: (applicable fixed or portable facilities include each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station, crushers & grinding mills at hot mix asphalt facilities that reduce the size of non-metallc minerals embedded in recycled asphalt pavement & subsequent affected facilities up to, but not including the first storage silo or bin.)

FOR FACILITIES NOT SUBJECT TO: (40 CFR Part 60, Subpart OOO, §60.670(a)(2), (b), (c), and (d))

(If you have checked this category, answer all questions EXCEPT those with **.)

Non-Subject Facilities: (includes all facilities in underground mines; stand-alone screening operations at plants w/o crushers or grinding mills; facilities not subject to subparts F (Portland Cement Plants) or I (Hot Mix Asphalt Facilities) of this part; fixed sand & gravel plants, & crushed stone plants w/capacities of 23 megagrams/hr (25 tons/hr) or less; portable sand & gravel plants, & crushed stone plants w/capacities of 136 megagrams/hr (150 tons/hr) or less; common clay plants, and pumice plants w/capacities of 9 megagrams/hr (10 tons/hr) or less.)

PART III: EMISSION STANDARDS – Chapter 62-210.310(5)(e), F.A.C.

(check appropriate box(es))

Stack Emissions - 40 CFR Part 60, Subpart OOO adopted by reference Chapter 62-204.800, F.A.C.

- **1. Were visible stack emissions tests conducted during this site visit according to EPA Method 9 (40 CFR 60, Appendix A)?----- Yes No
- **2. Do stack emissions from any crusher, grinding mill, screening operation, bucket elevator, transfer point on belt conveyors, bagging operation, storage bin, enclosed truck or railcar loading station or any other affected emission point:
- **a) exceed 7% percent opacity?----- Yes No
- **b) exceed the particulate matter standard of 0.05 grams per dry standard cubic meter (g/dscm)?----- Yes No
- **3. Do stack emissions from any baghouse that controls emissions from only an individual, enclosed storage bin exceed 7% percent opacity?----- Yes No

Visible Emissions - 40 CFR Part 60, Subpart OOO adopted by reference Chapter 62-204.800, F.A.C.

- **1. Were visible emissions tests conducted during this site visit according to EPA Method 9 (40 CFR 60, Appendix A)?----- Yes No
- **2. Do visible emissions from any:
- **a) grinding mill, screening operation, bucket elevator, transfer point on belt conveyors, bagging operation, storage bin, enclosed truck or railcar loading station or any other affected emission point exceed 10% percent opacity?----- Yes No
- **b) crusher without a capture system, exceed 15% opacity?----- Yes No
3. Pursuant to subparagraph 62-296.320(4)(b)1., F.A.C., are visible emissions from any crusher, grinding, screening operation, bucket elevator, transfer points on belt conveyors, bagging operation, storage bin, enclosed truck or railcar loading station, or any other emission point **NOT** subject to 40 CFR Part 60, Subpart OOO, equal to or greater than 20% percent opacity?----- Yes No

Emission Points Enclosed in Buildings - 40 CFR Part 60, Subpart OOO adopted by reference Chapter 62-204.800, F.A.C.

- **4. Is any crusher, grinding mill, screening operation, bucket elevator, transfer point on belt conveyors, bagging operation, storage bin, enclosed truck or railcar loading station, or any other affected emission point enclosed in a building? (*If answer to question #4 is YES, then proceed to #4.a.*)----- Yes No
- **a) If enclosed in a building are the stack emissions discharged from a wet scrubbing control device? (*If answer to this question is NO, then proceed to the next question #4.b)1) & 2). If YES skip to #4.c.*)----- Yes No
- **b) If the stack emissions from enclosed emission points are not discharged from a wet scrubbing control device is:
- 1) the particulate matter in excess of 0.05 grams per dry standard cubic meter (g/dscm)?----- Yes No
- 2) the opacity greater than 7% percent?----- Yes No
- **c) Do the stack emissions from the baghouse(s) inside of the building(s) exceed 7% percent opacity?----- Yes No
- **5. Do visible emissions from any:
- **a) grinding mill, screening operation, bucket elevator, transfer point on belt conveyors, bagging operation, storage bin, enclosed truck or railcar loading station or any other affected emission point exceed 10% percent opacity?----- Yes No
- **b) crusher without a capture system, exceed 15% opacity?----- Yes No

Wet Screening/Wet Mining Operations:

- **6. Are there any visible emissions discharges at the wet screening operations and subsequent screening operations, bucket elevators and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin?----- Yes No
- **7. Are there any visible emissions discharges at the screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line?----- Yes No

PART IV: TESTING/RECORDKEEPING REQUIREMENTS – Rule 62-210.310, F.A.C.

(check appropriate box(es))

Compliance Demonstration – (Rule 62-210.310(5)(e)3., F.A.C.)

1. Is each affected emission point tested according to the visible emissions and stack emissions standards as part of the annual compliance demonstration? (Rule 62-210.310(5)(e)3.e., F.A.C.)----- Yes No

Compliance New Facilities – (Rule 62-210.310(5)(e)3., F.A.C.)

2. Did this facility demonstrate initial compliance no later than 30 days after beginning operation?----- Yes No

Compliance Existing Facilities – (Rule 62-210.310(5)(e)3., F.A.C.)

3. In order to demonstrate annual compliance, was an annual visible emissions test conducted within 365 days (annually thereafter) of the previous visible emissions compliance test?----- Yes No

NO TEST REPORT IN FILE BUT NOTICE OF TEST SCHEDULED FOR 10/11/07 IS IN FILE

Test Methods and Procedures – Chapter 62-297, F.A.C., 40 CFR 60.675, and 40 CFR Part 60, Appendix A adopted and incorporated by reference at Rule 62-204.800, F.A.C.

4. Were all referenced visible emissions tests conducted using EPA Method 9?----- Yes No

5. Were all referenced unconfined or fugitive emissions tests conducted using EPA Method 22?----- Yes No

6. Were all referenced stack emissions or particulate matter tests conducted using EPA Methods 5 or 17?----- Yes No

Reporting and Recordkeeping – (Rule 62-210.310(5)(e)3., F.A.C.) [Chapter 62-297, F.A.C. and 40 CFR Part 60.670 – 60.676, Subpart OOO, adopted and incorporated by reference at Rule 62-204.800, F.A.C.]

Facility and/or Equipment Replacement *NO CHANGES MADE*

**7. Did the owner or operator submit to the Administrator, the following information about the replacement of existing facility and/or equipment:

**a) for a Crusher, Grinding Mill, Bucket Elevator, Bagging Operation, or enclosed truck, or Railcar Loading Station,

**1) the rated capacity in megagrams or tons per hour of the existing facility being replaced and the rated capacity in tons per hour of the replacement equipment?----- Yes No

**b) for a Screening Operation,

**1) the total surface area of the top screen of the existing screening operation being replaced and the total surface area of the top screen of the replacement screening operation?----- Yes No

**c) for a Conveyor Belt,

**1) the width of the existing belt being replaced and the width of the replacement conveyor belt?----- Yes No

**d) for a Storage Bin,

**1) the rated capacity in megagrams or tons of the existing storage bin being replaced and the rated capacity in megagrams or tons of replacement storage bins?----- Yes No

Performance/Compliance Testing

**8. During the initial performance test, did the owner or operator record the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate?----- Yes No

**9. After the initial performance test of a wet scrubber, did the owner or operator submit semiannual reports to the Administrator of occurrences when the measurements of the scrubber pressure loss (or gain) and liquid flow rate differ by more than ±30 percent from the averaged determined during the most recent performance test?----- Yes No

**a) Were the reports postmarked within 30 days following the end of the second and fourth calendar quarters?----- Yes No

PART IV: TESTING/RECORDKEEPING REQUIREMENTS – Rule 62-210.310, F.A.C. (Continued)

(check appropriate box(es))

- **10. Did the owner or operator of the facility submit written reports of the results of all performance tests conducted to demonstrate compliance with the particulate matter standards (40 CFR Part 60.672), opacity (using EPA Method 9 to demonstrate compliance with 40 CFR Part 60.672(b), (c), and (f)), and emission observations of transfer points enclosed in buildings (using EPA Method 22 to demonstrate compliance with 40 CFR Part 60.672(e))?----- Yes No

MISSING INITIAL AND 2007 COMPLIANCE TESTS

Process Changes

- **11. Does this facility have a screening operation, bucket elevator, and/or a belt conveyor system? (If your answer to this question is **YES**, then answer either a)1) or a)2) below.)----- Yes No

**a) Did this screening operation, bucket elevator, and/or belt conveyor system:

- **1) originally process saturated material and switch to unsaturated material? (Note: The unsaturated material handling processes would now be subject to the **10% opacity limit in 40 CFR 60.672(b) and the emission test requirements of 40 CFR 60.11 and Subpart 000.**)----- Yes No

- **2) originally process unsaturated material and switch to saturated material? (Note: The saturated material handling processes would now be subject to the **no visible emission limit in 40 CFR 60.672(h).**) (If answer to 1) or 2) above is **YES** then proceed to question b) below.)----- Yes No

- **b) Did the owner or operator submit a report of the process change within thirty (30) days following the change?----- Yes No

Notification Requirements FACILITY HAS NOT MOVED

- **12. Was notification of the actual date of startup for each affected or combination of affected facilities submitted to the Administrator and postmarked within 15 days after such date?----- Yes No
- **a) Did the notification include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available?----- Yes No
- **b) For portable aggregate processing plants, did the notification of actual date of initial start up also include both the home office and the current address or location of the portable plant?----- Yes No

PART V: OPERATING REQUIREMENTS/CONTROL TECHNOLOGY – Rule 62-210.310, F.A.C.

(check appropriate box(es))

1. Is this facility a: 1) relocatable 2) stationary ; or does it have: 3) both, stationary and relocatable concrete batching and/or nonmetallic mineral processing plants? (Please check only one box above.) (NOTE: If you have checked the box for relocatable go to questions 1.a) & 1.b). If you have checked the box for stationary go to question 1.c). If you have checked box #3, both, stationary and relocatable then answer all relocatable and stationary questions 1.a), 1.b), & 1.c) below, respectively.)

- a) If this is a **relocatable facility** was the Department notified by phone prior to this relocation, and was a Facility Relocation Notification form submitted within 1 business day following the relocation?----- Yes No

- b) If this is a **relocatable facility**, is it located at a mine and/or quarry, and processing only material from onsite deposits? (If your answer to this question is **NO**, please proceed to question 1) below.)----- Yes No

- 1) Does the owner or operator of this relocatable facility have a water suppression system with spray bars located at the feeder(s), the entrance, and the exit of the crusher(s), the classifier screens and the conveyor drop points?----- Yes No

- c) If this is a **stationary facility**, does the owner or operator of this stationary facility have a water suppression system with spray bars located at the feeder(s), the entrance, and the exit of the crusher(s), the classifier screens and the conveyor drop points?----- Yes No

PART V: OPERATING REQUIREMENTS/CONTROL TECHNOLOGY – Rule 62-210.310, F.A.C. (Continued)

(check appropriate box(es))

- **2. Does this facility incorporate the use of a wet scrubber to control emissions? (40 CFR Part 60, Subpart OOO adopted by reference Chapter 62-204.800, F.A.C.) *(If your answer to this question is YES, then proceed to questions 2.a) and 2.b), below.)*----- Yes No
- **a) Does the wet scrubber have continuous monitoring systems (CMS) for:
- **1) the measurement of the pressure loss of the gas stream through the scrubber?----- Yes No
- **2) the measurement of the scrubbing liquid flow rate to the wet scrubber?----- Yes No
- **b) Has each CMS been certified by the manufacturer and calibrated annually in accordance with the manufacturer's instructions and to the tolerances below?----- Yes No
- **1) ±250 pascals ±1 inch water gauge pressure for measuring pressure losses of the gas stream?----- Yes No
- **2) ±5 percent of design scrubbing liquid flow rate?----- Yes No

PART VI: OPERATING/RECORDKEEPING REQUIREMENTS – Rule 62-210.310(5)(b), F.A.C.

(check appropriate box(es))

1. Is this facility: 1) a stationary ; 2) a relocatable or does it have: 3) both, stationary and relocatable
(Please check only one box.)
2. For any combination of stationary or relocatable nonmetallic mineral processing plants, located with stationary or relocatable concreted batching plants:
- a) Are there any additional nonexempt units located at this facility?----- Yes No
- b) Is the total combined annual facility-wide fuel usage of all plants less than or equal to:
- 1) 275,000 gallons of diesel fuel----- Yes No
- 2) 23,000 gallons of gasoline----- Yes No
- 3) 44 million standard cubic feet on natural gas----- Yes No
- 4) 1.3 million gallons of propane----- Yes No
- 5) or an equivalent prorated amount if multiple fuels are used onsite----- Yes No
3. Does the owner/operator of the nonmetallic mineral processing plant submitting this registration maintain a log book or books to account for fuel consumption on a monthly basis?----- Yes No

FACILITY KEEPS FUEL VENDOR RECEITS

4. Is this relocatable nonmetallic mineral processing plant used to perform a routine function of a facility (not a Title V source) subject to regular air permitting, such as crushing recycled asphalt (rap) at an asphalt plant?----- Yes No
- a) If **YES**, does the regularly permitted facility air construction or air operation permit(s) provide for the operation of the nonmetallic mineral processing plant as an emission unit?----- Yes No
5. Is this relocatable nonmetallic mineral processing plant used to perform a non-routine activity, such as destruction of a building, at a regularly permitted facility (not a Title V source)?----- Yes No
- a) If **YES**, does it operate under the authority of its air general permit?----- Yes No

PART VII: REASONABLE PRECAUTIONS/EMISSION CONTROL MEASURES & TECHNOLOGY – Rule 62-210.310(5)(e)3.c., F.A.C.

(check appropriate box(es))

Unconfined Emissions – (Rule 62-296.320(4)(c), F.A.C.)

1. Does the owner /operator of the nonmetallic mineral processing plant take reasonable precautions to control unconfined emissions by:

- a) use of a water suppression system with spray bars located at the feeder(s), the entrance and exit of the crusher(s), the classifier screens, and the conveyor drop points?----- Yes No
- b) management of roads, parking areas, stock piles, and yards, which shall include one or more of the following:
 - 1) paving and maintenance of roads, parking areas, stock piles, and yards?----- Yes No
 - 2) application of water or environmentally safe dust-suppressant chemicals when necessary to control emissions?----- Yes No
 - 3) removal of particulate matter from roads and other paved areas under control of the owner/operator to re-entrainment, and from building or work areas to reduce airborne particulate matter?----- Yes No
 - 4) reduction of stock pile height, or installation of wind breaks to mitigate wind entrainment of particulate matter from stock piles?----- Yes No
 - 5) landscaping and/or the planting of vegetation?----- Yes No
 - 6) the use of hoods, fans, filters and similar equipment to contain, capture and/or vent particulate matter?----- Yes No
 - 7) the enclosure or covering of conveyor systems?----- Yes No

PART VIII: SPECIAL CONDITIONS AND PROCEDURES – Rule 62-210.310(2), F.A.C.

A. New or Modified Process Equipment

1. Since the last inspection has there been

- a) installation of any new process equipment?----- Yes No
- b) alteration of existing process equipment without replacement?----- Yes No
- c) replacement of existing equipment substantially different than that noted on the most recent notification form?----- Yes No
- d) If you answered **YES** to any of the above, did the owner submit a new and complete notification form and appropriate fee (Rule 62-4.050, F.A.C.) to the appropriate DEP or local program office?----- Yes No

COMMENTS: Audited VE test of crusher belts, hopper and diesel exhaust. Observed no visible emissions from any point during the test performed by Arlington Environmental employee Ryan Peterson. The crusher uses spray bars on conveyors and the material stayed wet—though not saturated-- until reaching the stockpiles. Michelle Cook, Office Manager for A&L, maintains fuel purchase receipts. The receipts show fuel used by on road vehicles (dyed/ultra low sulfur #2) and off road (undyed/low sulfur #2) vehicles and notations are made on the invoices how much fuel Polk County Crushing is billed for. A review of the past 6 months of fuel use by Polk County Crushing determined the crusher uses about 151 gallons of diesel per month or 1,808 gpy. The unit is limited to 275,000 gpy of diesel.

Inspector's Name : Max Grondahl

Date of Inspection: 9/3/08

Inspector's Signature

Approximate Date of Next Inspection