NON-METALLIC MINERAL PROCESSING PLANTS

COMPLIANCE INSPECTION CHECKLIST

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

AIRS ID#: 5662 001 **DATE:** 8/10/12 **ARRIVE:** ~ 1:00 PM **DEPART:** ~ 2 :00 PM

FACILITY NAME: Powerscreen of Florida Inc

FACILITY LOCATION: **1417 Weedon Island Dr. NE or Progress Energy – Bartow Plant**

OWNER/AUTHORIZED REPRESENTATIVE: Richard Grant **PHONE:** (863) 687-7153
Email: R. Grant@tampabay.rr.com **Mobile:**
CONTACT NAME: Chad Reed – Frontier Industrial Corp. (renter) **PHONE:** (716) 447-7587
Email: creed@fic-services.com **Mobile:** **(601) 807-0107**
ENTITLEMENT PERIOD: 01/20/11 (effective date) / : 01/20/16 (end date)

EMISSION UNIT DESCRIPTION : **320 ton/hour Power Screen crusher, Model Pegaon XH320, Serial No. XH320COMAF0844, with 35'x40"belt with 3-spray-bars . Manufactured 9/2010.**

Facility Section

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

☒ IN COMPLIANCE ☐ MINOR Non-COMPLIANCE ☐ SIGNIFICANT Non-COMPLIANCE

PART II: ONSITE INTRODUCTORY MEETING

(check ☑ only one box for each question)

1. Name(s) of facility representative(s): Chad Reed – Supervisor- Frontier Industrial Corp.

Brief Notes: Frontier Industrial Corp. is renting unit from Powerscreen of Florida, Inc. to conduct non-routine crushing operations onsite for Progress Energy- Bartow Plant (Title V Permit held).

2. Is the Authorized Representative still RICHARD GRANT? ---------- ☒ Yes ☐ No
If no, who is?:

If different, did the facility provide an administrative update within 30 days? ---------- ☐ Yes ☐ No

3. Is the facility contact still RICHARD GRANT? ---------- ☐ Yes ☒ No
If no, who is?: Chad Reed – Supervisor for Frontier Industrial Corp. (company renting unit)

4. Will facility be conducting VE test(s) during today's inspection? ---------- ☐ Yes ☒ No
If yes, was the compliance authority notified at least 15 days in advance? ---------- ☐ Yes ☐ No

Emissions Unit Section
1 –Crusher Unit A

(check ☑ only one box for each question)

Is the Emissions Unit (EU) subject to 40 CFR part 60 subpart OOO – Nonmetallic Mineral Processing Plants?

{Note: "Nonmetallic mineral" means any of the following minerals or any mixture of which the majority is any of the following minerals: (1) Crushed and Broken Stone, including Limestone, Dolomite, Granite, Traprock, Sandstone, Quartz, Quartzite, Marl, Marble, Slate, Shale, Oil Shale, and Shell; (2) Sand and Gravel; (3) Clay including Kaolin, Fireclay, Bentonite, Fuller's Earth, Ball Clay, and Common Clay; (4) Rock Salt; (5) Gypsum (natural or synthetic); (6) Sodium Compounds, including Sodium Carbonate, Sodium Chloride, and Sodium Sulfate; (7) Pumice; (8) Gilsonite; (9) Talc and Pyrophyllite; (10) Boron, including Borax, Kernite, and Colemanite; (11) Barite; (12) Fluorospar; (13) Feldspar; (14) Diatomite; (15)Perlite; (16) Vermiculite; (17) Mica; (18) Kyanite, including Andalusite, Sillimanite, Topaz, and Dumortierite.}

1. Is the EU located at a fixed or portable nonmetallic mineral processing plant or hot mix asphalt plant that has an aboveground crusher or grinding mill? ---------- ☒ Yes ☐ No

2. Is the EU located above ground (i.e., not in an underground mine)? ---------- ☒ Yes ☐ No

3. Was the EU constructed, modified, or reconstructed after August 31, 1983? ---------- ☒ Yes ☐ No

4. Is the EU one of the following? ---------- ☒ Yes ☐ No

☒ crusher, ☐ grinding mill, ☐ bucket elevator, ☒ belt conveyor, ☐ bagging operation,
☐ storage bin, ☐ enclosed truck loading station ☐ enclosed railcar loading station;
☐ crusher or grinding mill at hot mix asphalt plant that reduces the size of nonmetallic minerals embedded in recycled asphalt pavement or subsequent emissions unit up to, but not including, the first storage silo or bin;
☒ screening operation (a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series, and retaining oversize material on the mesh surfaces. Grizzly feeders associated with truck dumping and static (non-moving) grizzlies used anywhere in the nonmetallic mineral processing plant are not considered to be screening operations.)
☐ building enclosing any of the above EUs if all enclosed EUs are not individually in compliance with emissions limits. *{A "vent" is any opening through which there is mechanically induced air flow for the purpose of exhausting from a building air carrying particulate matter (PM) emissions from one or more affected EUs.}*

If answer to any of the four Questions 1 -4 above is "No" then the EU is not subject to subpart OOO so skip the following questions and go directly to Question 24.
If the answer to all of the four Questions 1-4 above is "Yes" then continue to Question 5.

5. Is the EU subject to 40 CFR part 60 subpart F (Portland Cement Plants) or subpart I (Hot Mix Asphalt Facilities), or does it follow in the plant process any other EU that is subject to 40 CFR part 60 subpart F or subpart I? ---------- ☐ Yes ☒ No

6. Is the EU located at a fixed sand and gravel plant or crushed stone plant with a capacity less than or equal to 23 megagrams/hour (25 tons/hour)? ---------- ☐ Yes ☒ No

7. Is the EU located at a portable sand and gravel plant or crushed stone plant with a capacity less than or equal to 136 megagrams/hour (150 tons/hour) ? ---------- ☐ Yes ☒ No

8. Is the EU located at a common clay plant or pumice plant with capacity less than or equal to 9 megagrams/hour (10 tons/hour) ? ---------- ☐ Yes ☒ No

1 –Crusher Unit A

9. Is the EU a wet screening operation or subsequent screening operation, bucket elevator or belt conveyor in a production line that processes saturated material up to the first crusher, grinding mill or storage bin in the production line? ---------- ☐ Yes ☒..No

{Note: "wet screening operation" means a screening operation which removes unwanted material or which separates marketable fines from the product by a washing process which is designed and operated at all times such that the product is saturated with water. "Saturated material" means mineral material with sufficient surface moisture such that particulate matter emissions are not generated from processing of the material through screening operations, bucket elevators and belt conveyors. Material that is wetted solely by wet suppression systems is not considered to be "saturated" for purposes of this definition.}

10. Is the EU a screening operation, bucket elevator or belt conveyor in the production line downstream of wet mining operation that process saturated material up to the first crusher, grinding mill or storage bin in the production line? ---------- ☐ Yes ☒..No

{Note: Wet mining operation means a mining or dredging operation designed and operated to extract any nonmetallic mineral from deposits existing at or below the water table, where the nonmetallic mineral is saturated with water. "Saturated material" means mineral material with sufficient surface moisture such that particulate matter emissions are not generated from processing of the material through screening operations, bucket elevators and belt conveyors. Material that is wetted solely by wet suppression systems is not considered to be "saturated" for purposes of this definition.}

If answer to any of the six Questions 5 -10 above is "Yes" then the EU is not subject to subpart OOO so skip the following questions and go directly to Question 24.
If the answer to all of the six Questions 5-10 above is "No" then continue to Question 11.

11. When was the EU last constructed, modified, or reconstructed? September 2010

12. Was the EU constructed, modified, or reconstructed on or after 4/22/2008? ---------- ☒ Yes ☐..No

If answer to Question 12 is "No" skip the following questions and go directly to Question 20

13. Does the EU have a particulate matter *capture system* (equipment including enclosures, Hoods, fans, dampers, etc.) to capture and transport particulate matter to a control device? ------ ☐ Yes ☒..No

If answer to Question 13 is "No" skip the following questions and go directly to Question 19

14. Initial Tests:

a. Was an initial PM stack test performed on the control device within 180 days of initial startup of the EU? ---------- ☐ N/A ☐ Yes ☐ No
b. If yes, was the EU found to be in compliance with the PM limit of 0.032 g/dscm (0.014 gr/dscf)?--- ☐ Yes ☐..No
c. Was an initial VE test performed on any fugitive emissions (escaping capture system)? ---------- ☐ Yes ☐..No
d. If yes, was the opacity less than or equal to 7% opacity? ---------- ☐ Yes ☐..No

15. If the EU is a building enclosing any other regulated EUs and all enclosed EUs are not individually in compliance with emissions limits:

a. Was an initial PM stack test performed on each vent control device within 180 days of initial startup of the EU? ---------- ☐ N/A ☐ Yes ☐ No
{A "vent" is any opening through which there is mechanically induced air flow for the purpose of exhausting from a building air carrying particulate matter (PM) emissions from one or more affected EUs.}
b. If yes, was the EU found to be in compliance with the PM limit of 0.032 g/dscm (0.014 gr/dscf)? --- ☐ Yes ☐..No
c. Was an initial VE test performed on fugitive emissions from non-vent building openings? ---------- ☐ Yes ☐..No
d. Were initial fugitive emissions from non-vent building openings less than or equal to 7% opacity? -- ☐ Yes ☐..No

1 –Crusher Unit A

16. Is a baghouse used to control emissions from the EU? ---------- ☐ Yes ☐..No

If yes, the owner operator:
- ☐ conducts quarterly 30-minute VE tests using Method 22;
- ☐ uses a bag leak detection system specified in 40 CFR 60.674(d);
- ☐ follows the requirements of 40 CFR 63AAAAA Lime Manufacturing as specified in 40 CFR 60.674(e); or
- ☐ none of the above (i.e., out of compliance)

17. If the EU is an individual, enclosed storage bin controlled by a baghouse,
were initial fugitive emissions less than or equal to 7% opacity? ---------- ☐ N/A ☐ Yes ☐ No

18. Is a wet scrubber used to control emissions from the EU? ---------- ☐ Yes ☐..No

If yes, does the owner/operator maintain and operate:

a. a device for the continuous measurement of the pressure loss of the gas stream through the scrubber and the device has been calibrated on an annual basis in accordance with manufacturer's instructions? ---------- ☐ Yes ☐..No
{Note: The monitoring device must be certified by the manufacturer to be accurate within +250 pascals +1 inch water gauge pressure.}

and

b. a device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber and the device has been calibrated on an annual basis in accordance with manufacturer's instructions ? -- ☐ Yes ☐..No
{Note: The monitoring device must be certified by the manufacturer to be accurate within +5% of design scrubbing liquid flow rate.}

19. Is wet suppression used to control emissions from the EU? ---------- ☒ Yes ☐..No

If yes:

a. Does the owner/operator perform monthly inspections to check that water is flowing to the discharge spray nozzles? Yes

b. Does the owner/operator initiate corrective action within 24 hours and complete corrective action as expediently as practical is water is not flowing properly? Yes

c. Is each inspection of the spray nozzles, including the date and any corrective action taken, recorded in the written or electronic logbook as required by 40 CFR 60.676(b)? ---------- ☒ Yes ☐..No

If the EU was constructed, modified, or reconstructed on or after 4/22/2008 skip the following questions and go directly to Question 24.

20. Does the EU have a particulate matter *capture system* (equipment including enclosures, Hoods, fans, dampers, etc.) to capture and transport particulate matter to a control device? ------- ☐ Yes ☐..No

21. Initial Tests:

a. Was an initial PM stack test performed on the control device within 180 days of initial startup of the EU? ---------- ☐ N/A ☐ Yes ☐ No

b. If yes, was the EU found to be in compliance with the PM limit of 0.05 g/dscm (0.022 gr/dscf)? --- ☐ Yes ☐..No

c. Was an initial VE test performed on any fugitive emissions (escaping capture system)? ---------- ☐ Yes ☐..No

d. If yes, was the opacity less than or equal to 7% opacity? ---------- ☐ Yes ☐..No

1 –Crusher Unit A

22. If the EU is a building enclosing any other regulated EUs and all enclosed EUs are not individually in compliance with emissions limits:

a. Was an initial PM stack test performed on each vent control device within 180 days of initial startup of the EU? ---------- ☐ N/A ☐ Yes ☐ No

{A "vent" is any opening through which there is mechanically induced air flow for the purpose of exhausting from a building air carrying particulate matter (PM) emissions from one or more affected EUs.}

b. Was the EU found to be in compliance with the PM limit of 0.05 g/dscm (0.022 gr/dscf)? ---------- ☐ Yes ☐..No

c. Were initial fugitive emissions from non-vent building openings less than or equal to 7% opacity?-- ☐ Yes ☐..No

23. Is a wet scrubber used to control emissions from the EU? ---------- ☐ Yes ☐..No

If yes, does the owner/operator maintain and operate:

a. a device for the continuous measurement of the pressure loss of the gas stream through the scrubber and the device has been calibrated on an annual basis in accordance with manufacturer's instructions? ---------- ☐ Yes ☐..No

{Note: The monitoring device must be certified by the manufacturer to be accurate within +250 pascals +1 inch water gauge pressure.}

and

b. a device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber and the device has been calibrated on an annual basis in accordance with manufacturer's instructions ? -- ☐ Yes ☐..No

{Note: The monitoring device must be certified by the manufacturer to be accurate within +5% of design scrubbing liquid flow rate.}

24. When was the last VE test conducted by the owner/operator for this EU? 1/6/12

a. If EU is not subject to 40 CFR 60 subpart OOO, has the EU been tested within the past 5 years? --- ☐ Yes ☐..No

b. If EU is subject to 40 CFR subpart OOO:

i. has the EU been tested during each of the past 4 calendar years? ---------- ☐ Yes ☒..No

ii. has the EU been tested yet within the current calendar year? ---------- ☒ Yes ☐..No

25. Was a VE test conducted by the *owner/operator* for this unit during this site visit? ---------- ☐ Yes ☒..No

a. Was the VE test conducted at a process rate that is representative of the normal rate? ---------- ☐ Yes ☐..No

Rate:

b. Was the VE test conducted according to EPA Method 9? ---------- ☐ Yes ☐..No

c. The VE test resulted in an opacity of ___% for the highest six-minute average.

d. Did the VE test demonstrate compliance with the opacity limit? (See chart below). ---------- ☐ Yes ☐..No

26. Was a VE test conducted by the *inspector* for this unit during this site visit? ---------- ☐ Yes ☒..No

a. Was the VE test conducted at a process rate that is representative of the normal rate? ---------- ☐ Yes ☐..No

Rate:

b. Was the VE test conducted according to EPA Method 9? ---------- ☐ Yes ☐..No

c. The VE test resulted in an opacity of ___% for the highest six-minute average.

d. Did the VE test demonstrate compliance with the opacity limit? (See chart below). ---------- ☐ Yes ☐..No

VE Opacity Limits			
	EU not subject to 40 CFR 60 Subpart OOO	**Subpart OOO EU constructed, modified, or reconstructed prior to 4/22/2008**	**Subpart OOO EU constructed, modified, or reconstructed on or after 4/22/2008**
Crusher with no capture system	20%	15%	12%
All other affected EUs	20%	10%	7%

Facility Section (continued)

REASONABLE PRECAUTIONS FOR UNCONFINED EMISSIONS

(check ☑ only one box for each question)

1. Does the owner/operator of the NMMP Plant take reasonable precautions to control unconfined emissions by:

a) Use of water suppression system(s) with spray bars located wherever unconfined emissions occur (at the feeder(s), the entrance and exit of the crusher(s), the classifier screens, and the conveyor drop points)? ---------- ☐ N/A ☒ Yes ☐ No

If no, where are unconfined emissions occurring?

b) Use of water trucks equipped with spray bars to apply water or effective dust suppressant(s) on a regular basis (to all stockpiles, roadways and work yards)? ---------- ☐ N/A ☐ Yes ☒ No

c) Paving and maintaining roads and parking areas? ---------- ☐ N/A ☒ Yes ☐ No

d) Removal of particulate matter from roads and other paved areas under control of the owner/operator to prevent re-entrainment, and from building or work areas to reduce airborne particulate matter? ---------- ☐ N/A ☒ Yes ☐ No

e) Reduction of stock pile height, or installation of wind breaks to mitigate wind entrainment of particulate matter from stock piles? ---------- ☐ N/A ☐ Yes ☒ No

2. If reasonable precautions <u>not</u> being taken:

a) Did the inspector perform a general VE test (20% opacity)? ---------- ☒ N/A ☐ Yes ☐ No

b) If tested: (___)% opacity. Were the visible emissions < 20% opacity? ---------- ☐ Yes ☐ No

c) What caused the problem(s) (if known)?

CONFIRMATION OF GENERAL PERMIT ELIGIBILITY

(check ☑ only one box for each question)

1. Does this facility keep records to show that it does not have the potential to emit:

a) 10 tons per year or more of any hazardous air pollutant? ---------- ☐ Yes ☒ No

b) 25 tons per year or more of any combination of hazardous air pollutants? ---------- ☐ Yes ☒ No

c) 100 tons per year or more of any other regulated air pollutant? ---------- ☐ Yes ☒ No

2. Does this facility include:

a) any emission units or activities not covered by the applicable air general permit (with the exception of units and activities that are exempt from permitting pursuant to subsection Rule 62-210.300(3) or Rule 62-4.040, F.A.C.)? ---------- ☐ Yes ☒ No

If YES, what non-exempt units or activities?

b) any emissions units or activities authorized by another air general permit where such other air general permit and this general permit specifically allow the use of one another at the same facility? ----- ☐ Yes ☒ No

If YES, what other general permit units or activities?

3. Is the total combined annual facility-wide fuel usage of all plants less than or equal to: Unknown. Fuel records not kept by RO.

a) 275,000 gallons of diesel fuel? ---------- ☐ Yes ☐..No

b) 23,000 gallons of gasoline? ---------- ☐ Yes ☐..No

c) 44 million standard cubic feet on natural gas? ---------- ☐ Yes ☐..No

d) 1.3 million gallons of propane? ---------- ☐ Yes ☐..No

e) or an equivalent prorated amount if multiple fuels are used onsite (use equation below)? ---------- ☐ Yes ☐..No

( ) gal diesel/yr + ( ) gal gasoline/yr + ( ) MM SCF nat. gas/yr + ( ) MM gal propane/yr ≤ 1.00?
275,000 gal diesel/yr 23,000 gal gasoline/yr 44 MM SCF nat. gas/yr 1.3 MM gal propane/yr

4. Has the owner/operator maintained, available for inspection, site-wide records of monthly fuel consumption for each consecutive 12-period for the past 5 years? ---------- ☐ Yes ☒..No

GENERAL CONDITIONS

(check ☑ only one box for each question)

1. Has the owner or operator allowed the circumvention of any air pollution control device, or Allowed the emission of air pollutants without the proper operation of all applicable air pollution control devices? ---------- ☐ Yes ☒..No

2. Does the owner or operator:

a) maintain the authorized facility in good condition? ---------- ☒ Yes ☐..No

b) ensure that the facility maintains its eligibility to use the air general permit and complies with all terms and conditions of the air general permit? ---------- ☐ Yes ☒..No

3. Has the owner or operator allowed you, as the duly authorized representative of the Department, access to the facility at reasonable times to inspect and test and to determine compliance with the air general permit and Department rules? ---------- ☒ Yes ☐..No

RELOCATABLE PLANT

(check ☑ only one box for each question)

1. The facility: ☐ is stationary; ☒ is relocatable; or ☐ consists of both stationary and relocatable NMMP and/or concrete batching plants. (***If only stationary, skip the following questions 2 and 3.)***

2. For a relocated NMMP plant:

a) did the owner or operator notify the appropriate Department or Local Air Program by telephone, e-mail, fax, or written communication at least one business day prior to changing location? ------ ☒ Yes ☐..No

b) did the owner or operator transmit a Facility Relocation Notification Form [DEP No. 62-210.900(6)] to the Department or Local Air Program no later than five business days following relocation? -- ☒ Yes ☐..No

3. If the relocatable NMMP plant was co-located at a facility with a separate air construction or air operation permit, and the relocatable NMMP plant is not included as an emissions unit in that separate permit:

a) was the relocatable NMMP plant being used for a non-routine purpose? ---------- ☒ Yes ☐..No

If YES, what was the purpose? Crush the demolished debris from Progress Energy (Title V Permit) –Bartow Plant's old stacks. Under the direction of Jonathan Holtram at FDEP, this EU is being labeled as "Heavy Equipment" and considered an "Insignificant Source" under the Title V permit held by Progress Energy.

{Note: crushing recycled asphalt pavement (rap) at an asphalt plant is considered routine and so therefore must be authorized in the facility's air construction or operation permit.}

b) were records kept by the owner/operator to indicate how long it was co-located at the permitted facility? ---------- ☒ Yes ☐..No

If YES, were any periods more than 6 months in any consecutive 12-month period? ---------- ☐ Yes ☒..No

CHANGES

(check ☑ only one box for each question)

Administrative Changes:

1. Were there any changes in the name, address, or phone number of the facility or authorized representative not associated with a change in ownership or with a physical relocation of the facility or any emissions units or operations comprising the facility; or any other similar minor administrative change at the facility? -- ☐ Yes ☒..No

2. If YES, did the facility provide written notification within 30 days of the change? ---------- ☐ Yes ☐..No

New or Modified Process Equipment or Change in Ownership:

3. Since the last registration form submittal has there been

a) Installation of any new process equipment? ---------- ☐ Yes ☒..No

b) Alterations to existing process equipment without replacement? ---------- ☐ Yes ☒..No

c) Replacement of existing equipment with equipment that is substantially different? ---------- ☐ Yes ☒..No

d) A change in ownership? ---------- ☐ Yes ☒..No

4. If the answer to any question 3a. – d. is YES, was a new registration form and the appropriate fee submitted 30 days prior to the change? ---------- ☐ Yes ☐..No

Brennan Farrington
Inspector's Name (Please Print)

8/10/12
Date of Inspection

Inspector's Signature

~ 2013
Approximate Date of Next Inspection

COMMENTS: This re-locatable plant is rented out to customers by Powerscreen of Florida Inc. typically on a monthly basis. The customer renting the unit during this inspection was Frontier Industrial Corp. The unit began operating at the Progress Energy – Bartow Plant on 8/8/12. Under the direction of Jonathan Holtram at FDEP, this EU is being labeled as "Heavy Equipment" and considered an "Insignificant Source" under the Title V permit held by Progress Energy.

No VE test was conducted in calendar year 2011 for this EU according to Mr. Richard Grant of Powerscreen of Florida Inc. when contacted on 9/17/12 via phone by inspector. Mr. Grant stated that work load was light during this time and that verbal approval was acquired by Max Grundle at FDEP to conduct the VE after beginning operation in 2012. VE test was conducted on 1/6/12.

Records are kept at Powerscreen of Florida Inc. of maintenance performed on unit, hours of unit operation during rental time period, and time period at rental location. No records are being kept by Powerscreen of Florida Inc. regarding fuel usage or amount of material processed while in a renter's possession.

At time of inspection, the operator / renter (Frontier Industrial Corp.) was not keeping records of fuel usage or amount of material processed. Supervisor Chad Reed agreed to begin to recording the fuel usage. Mr. Reed stated that the total amount of material processed through the rental period could be estimated once the project was completed. Mr. Reed also agreed to begin keeping his own log of daily maintenance checks and corrective actions/ repairs made to the unit while he was operating the unit. On the morning of the day of inspection, a malfunctioning spray nozzle was recognized during daily maintenance and effective immediate action was observed being taken by the Frontier Industrial Corp Inc. to mitigate this problem.

The general condition of the work area was clean and free of fugitive dust. A sweeper truck will periodically be rented by Frontier Industrial Corp Inc. if an accumulation of dust occurs in the roadway or parking area. Other access to the work area is very limited since it is on the property of Progress Energy – Bartow Plant.