

# $\frac{\textbf{NON-METALLIC MINERAL PROCESSING}}{\underline{\textbf{PLANTS}}}$



#### COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2)					
AIRS ID#: 7775758 DATE: <u>9/23/2013</u> ARRIVE: <u>6:46AM</u> DEPART:	<u>14:50PM</u>				
FACILITY NAME: INERTIA 4048 CRUSHER					
FACILITY LOCATION: 10705 Comsmonaut Blvd					
ORLANDO 32824					
OWNER/AUTHORIZED REPRESENTATIVE: MARK LANDRY* Email: mlandry@middlesexco.com CONTACT NAME: MARK LANDRY* Email: mlandry@middlesexco.com ENTITLEMENT PERIOD: 2/7/2013 / 2/7/2018 (effective date) (end date)  PHONE: (407)206-007 Mobile: PHONE: (407)206-007 Mobile:					
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 <b>☑</b> only one				
Name(s) of facility representative(s): <u>Mark Landry</u> Priof Notes:	box for each question)				
Brief Notes:  2. Is the Authorized Representative still MARK LANDRY*? If no, who is?:	☐ Yes ☐No				
If different, did the facility provide an administrative update within 30 days?  3. Is the facility contact still MARK LANDRY*?	<ul><li>∑ Yes</li></ul>				
4. Will facility be conducting VE test(s) during today's inspection?	∑ Yes				

## Emissions Unit Section 1 –NMMP - crusher w/conv belt, diesel 300HP, screener,300T/hr

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, Trapprock, Sandstone, Quartz, Quartzie, Man, Marble, Slane, Shale, Oil Shale, and Sheli! (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) Gilosonite; (9) Tale and Pyrophytilite; (10) Boron, including Boxak, Kerrite, and Colemanite; (11) Barite; (12) Fluorospar; (13) Feldspar; (14) Diatomite; (15) Perlite; (16) Vermiculite;  (17) Mica; (18) Kyanite, including Andalustie, Sillimanite, Topaz, and Dumoriterite.]  I. 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 miner)? 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  3. Was the EU constructed, modified, or reconstructed after August 31, 1983? Yes No  4. Is the EU one of the following? Yes No  4. Is the EU one of the following? Yes No  5. Surchsen, T. grinding mill to this 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 through one or more mesh surfaces (screens) in series, and retaining oversize material throu			(check 🗹	only one
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or hot mix asphalt plant that has an aboveground crusher or grinding mill?	1.	Is the EU located at a fixed or portable nonmetallic mineral processing plant		
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?	2.	Is the EU located above ground (i.e., not in an underground mine)?	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				□No
storage bin,	4.		Yes	□No
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any other EU that is subject to 40 CFR part 60 subpart F or subpart I?	5.			
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)?			_	_
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)?	6.			<b>5</b>
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	7.			⊠ M
	0		∐ Yes	ĭN0
	ð.		☐ Yes	⊠No

#### 1 -NMMP - crusher w/conv belt, diesel 300HP, screener,300T/hr

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 operat	ed	
	at all times such that the product is saturated with water. "Saturated material" means mineral materia	:I	
	with sufficient surface moisture such that particulate matter emissions are not generated from processi	ng	
	of the material through screening operations, bucket elevators and belt conveyors. Material that is wet		
	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.}		
<b>I</b> f	answer to any of the six Questions 5 -10 above is "Yes" then the EU is not subject to		
su	bpart OOO so skip the following questions and go directly to Question 24.		
<b>I</b> f	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? 8/2012		
12	. Was the EU constructed, modified, or reconstructed on or after 4/22/2008?	⊠ Yes	□No
		_	_
IJ	answer to Question 12 is "No" skip the following questions and go directly to Question 20		
13	Does the EU have a particulate matter <i>capture system</i> (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
	$\{A \text{ "vent" is any opening through which there is mechanically induced air flow for the}$		
	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 Yes	□No

#### 1 –NMMP - crusher w/conv belt, diesel 300HP, screener,300T/hr

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)	ıg	
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
<b>18.</b> Is a wet scrubber used to control emissions from the EU?	Yes	□No
<ul> <li>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?</li></ul>	☐ Yes	□No
<ul> <li>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? {Note: The monitoring device must be certified by the manufacturer to be accurate within +5% of design scrubbing liquid flow rate.}</li> </ul>	☐ Yes	□No
19. Is wet suppression used to control emissions from the EU?	☐ Yes	⊠No
<ul> <li>If yes:</li> <li>a. Does the owner/operator perform monthly inspections to check that water is flowing to the discharge spray nozzles?</li> <li>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?</li> <li>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)?</li></ul>	☐ Yes	⊠No
questions and go directly to Question 24.		
<b>20. Does the EU have a particulate matter</b> <i>capture system</i> (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?	Yes Yes Yes Yes Yes	☐ No ☐No ☐No ☐No

#### 1 -NMMP - crusher w/conv belt, diesel 300HP, screener,300T/hr

22. If the EU is a building enclosing an		and all enclosed EUs are not			
individually in compliance with em					
a. Was an initial PM stack test perfor initial startup of the EU?			/ <b>A</b>	□ v	□ Na
$\{A \text{ "vent" is any opening through whith } A$			A	☐ Yes	∐ No
purpose of exhausting from a building					
one or more affected EUs.}	g air carrying particula	ie matter (1 141) emissions from			
b. Was the EU found to be in compliant.	ance with the PM limit	of 0.05 g/dscm (0.022 gr/dscf)?		☐ Yes	□No
c. Were initial fugitive emissions from				Yes	□No
ov vvoio initial ragia vo omissions iro	ar non-yent cunumg op	omings ross than or equal to 7,70	spusity.		
23. Is a wet scrubber used to control en				Yes Yes	□No
If yes, does the owner/operator maintain					
a. a device for the continuous measur					
scrubber and the device has been					
instructions?				☐ Yes	□No
{Note: The monitoring device n	•	manufacturer to be accurate with	nin +250		
pascals +1 inch water gauge pre	ssure.}				
and	coment of the carubbing	liquid flow rate to the wet servi	har and th	0	
b. a device for the continuous measured device has been calibrated on an					□No
{Note: The monitoring device n				☐ 1 es	140
of design scrubbing liquid flow		manufacturer to be accurate with	1111 1 3 70		
or design serdeeting riquid from	i di ci i				
24. When was the last VE test conducte	ed by the owner/opera	tor for this EU? <u>8/22/2012</u>			
a. If EU is not subject to 40 CFR 60 s	subpart OOO, has the E	U been tested within the past 5	years?	☐ Yes	⊠No
b. If EU is subject to 40 CFR subpart					
<ol> <li>has the EU been tested during</li> </ol>				Yes Yes	⊠No
ii. has the EU been tested yet wi	thin the current calenda	ar year?		Yes Yes	⊠No
	/				
25. Was a VE test conducted by the <i>own</i>					□No
a. Was the VE test conducted at a pro Rate: ~330TPH	cess rate that is represe	entative of the normal rate?		⊠ Yes	⊠No
b. Was the VE test conducted accord	ing to FPA Method 92.			Yes	□No
c. The VE test conducted accord					
d. Did the VE test demonstrate comp				X Yes	□No
a. Dia the VE test demonstrate comp	namee with the opacity	mine. (See chart sers w).		<b></b>	
26. Was a VE test conducted by the ins	pector for this unit du	ring this site visit?		Yes	□No
a. Was the VE test conducted at a pro				Yes	☐No
Rate: ~330 TPH	•				
b. Was the VE test conducted accord	ing to EPA Method 9?			Yes	□No
c. The VE test resulted in an opacity					
d. Did the VE test demonstrate comp	liance with the opacity	limit? (See chart below)		⊠ Yes	□No
	VE Onac	rity Limits			
EU not subject to Subpart OOO EU Subpart OOO EU					
	40 CFR 60	constructed, modified,	-	cted, modi	fied.
	Subpart OOO	or reconstructed prior		structed o	,
	Suspart OOO	to 4/22/2008	after 4/2		11 01
Crusher with no capture system	20%	15%	arter 7/2	12%	
All other affected EUs	20%	10%		7%	
7 III Outer affected Des	2070	1070		1 /0	

### **Facility Section (continued)**

REASONABLE PRECAUTIONS FOR UNCONFINED EMISSIONS	(check 🗹 box for each	•
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  If no, where are unconfined emissions occurring?	⊠ Yes	☐ No
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  c) Paving and maintaining roads and parking areas? N/A  d) Removal of particulate matter from roads and other paved areas under control	⊠ Yes ⊠ Yes	☐ No ☐ No
of the owner/operator to prevent re-entrainment, and from building or work areas to reduce airborne particulate matter? N/A  e) Reduction of stock pile height, or installation of wind breaks to mitigate wind entrainment of	⊠ Yes	☐ No
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)?  b) If tested: ()% opacity. Were the visible emissions < 20% opacity?  c) What caused the problem(s) (if known)?	Yes Yes	□ No □No
·		
CONFIRMATION OF GENERAL PERMIT ELIGIBILITY	(check 🗹 box for each o	only one question)
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?     b) 25 tons per year or more of any combination of hazardous air pollutants?     c) 100 tons per year or more of any other regulated air pollutant?	- X Yes	□No □No □No
2. Does this facility include:  a) any emission units or activities not covered by the applicable air general permit (with the exception units and activities that are exempt from permitting pursuant to subsection Rule 62-210.300(3) or Rule 62-4.040, F.A.C.)?  If YES, what non-exempt units or activities?	or	⊠No
<ul> <li>b) any emissions units or activities authorized by another air general permit where such other air gene permit and this general permit specifically allow the use of one another at the same facility?</li> <li>If YES, what other general permit units or activities?</li> </ul>		⊠No

b) 23,000 gallons of gasoline?	S S S S S S S S	Yes Yes Yes Yes ≤ 1.00°	No  No  No  No  No
ENERAL CONDITIONS	(che	ck 🗹	only one
Has the owner or operator allowed the circumvention of any air pollution control device, or	•		
pollution control devices?		Yes	⊠No
a) maintain the authorized facility in good condition?		Yes	□No
terms and conditions of the air general permit?		Yes	□No
to the facility at reasonable times to inspect and test and to determine compliance with the air general		Yes	□No
			only one question)
b) did the owner or operator transmit a Facility Relocation Notification Form [DEP No. 62-210.900(6	5)]		□No
permit, and the relocatable NMMP plant is <u>not</u> included as an emissions unit in that separate permit:  a) was the relocatable NMMP plant being used for a non-routine purpose?		Yes	□No □No □No
7	a) 275,000 gallons of gasoline? c) 44 million standard cubic feet on natural gas? d) 1.3 million gallons of propane? e) or an equivalent prorated amount if multiple fuels are used onsite (use equation below)?  gal diesel/yr + ( ) gal gasoline/yr + ( ) MM SCF nat. gas/yr + ( ) MM gal propane ( ) gal diesel/yr 23,000 gal gasoline/yr + ( ) MM SCF nat. gas/yr 1.3 MM gal propane ( ) gal diesel/yr 23,000 gal gasoline/yr + ( ) MM SCF nat. gas/yr 1.3 MM gal propane ( ) gal diesel/yr 23,000 gal gasoline/yr + ( ) MM SCF nat. gas/yr 1.3 MM gal propane ( ) gas diesel/yr 23,000 gal gasoline/yr + ( ) gal gasoline/yr + ( ) gal gasoline/yr + ( ) MM SCF nat. gas/yr 1.3 MM gal propane ( ) gas diesel/yr 23,000 gal gasoline/yr + ( ) ga	a) 275,000 gallons of gasoline?	a) 275,000 gallons of diesel fuel?

CHANGES  Administrative Changes:	(check ✓ box for each	•
<ol> <li>Were there any changes in the name, address, or phone n associated with a change in ownership or with a physical operations comprising the facility; or any other similar m</li> <li>If YES, did the facility provide written notification within</li> </ol>	I relocation of the facility or any emissions units or ninor administrative change at the facility? Yes	⊠No □No
New or Modified Process Equipment or Change in Ownersh  3. Since the last registration form submittal has there been	· -	
a) Installation of any new process equipment?		
<b>4.</b> If the answer to any question 3a. – d. is YES, was a new 30 days prior to the change?	registration form and the appropriate fee submitted	No
Assefa Hailemariam	9/23/2013	
Inspector's Name (Please Print)	Date of Inspection	
	~12/31/2014	
Inspector's Signature	Approximate Date of Next Inspection	

**COMMENTS:** During the visible emission test, the crusher was operating at approximately 330 tons/hr. Nine emission points were audited. No visible emissions were observed on any of the drop points. No PM leaving the property and facility yard was very wet during the compliance test. Orange County EPD contacted Inertia Machine Corporation on 10/2/2013 to verify the rated capacity for the Inertia 4048 RAP crusher. Tyler, salesman, stated they sell the machine at a rated capacity of 300 TPH, but the unit can crush up to a rate of 400 TPH for certain sized materials. ARMS will be updated to reflect the correct rating and emission units.