

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



#### COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2) RE-INSPECTION (FUI)	COMPLAINT/D  ARMS COMPLA	ISCOVERY (CI)				
AIRS ID#: 0530046 DATE: <u>12/13/10</u> ARRIVE: <u>10:00</u> DEPART: <u>10:55</u>						
FACILITY NAME: VULCAN CONSTRUCTION	MATERIALS, LP					
<b>FACILITY LOCATION:</b> 16313 Ponce Delec	on Blvd					
BROOKSVILLE	34614					
Email: CONTACT NAME: WALLY ANDERSON Email:	OWNER/AUTHORIZED REPRESENTATIVE: JOHN CLARK Email: CONTACT NAME: WALLY ANDERSON Email: ENTITLEMENT PERIOD: 9/25/2006 / 9/25/2011  PHONE: (813)621-8463 Mobile: (813)621-8463 Mobile: 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  1. Name(s) of facility representative(s): Lori Sanvil	_		(check ☑ only one box for each question)			
Brief Notes: <u>Inspection coordinated with annual</u> 2. Is the Authorized Representative still JOHN CLA If no, who is?:	-		⊠ Yes □No			
If different, did the facility provide an administrat  3. Is the facility contact still WALLY ANDERSON If no, who is?:			☐ Yes ☐No ☐ Yes ☐No			
4. Will facility be conducting VE test(s) during toda If yes, was the compliance authority notified at least			YesNo YesNo			

## Emissions Unit Section 1 –LIMESTONE PROCESSING PLANT

Is the Emissions Unit (EU) subject to 40 CFR part 60 subpart OOO – Nonmetallic Mine	ich the majority	question)
	eral Processing Plants? Ich the majority	,
	ich the majority	
{Note: "Nonmetallic mineral" means any of the following minerals or any mixture of which is any of the following minerals: (1) Crushed and Broken Stone, including Limestone, Dolo Traprock, Sandstone, Quartz, Quartzite, Marl, Marble, Slate, Shale, Oil Shale, and Shell; (3) Clay including Kaolin, Fireclay, Bentonite, Fuller's Earth, Ball Clay, and Common Clay, Gypsum (natural or synthetic); (6) Sodium Compounds, including Sodium Carbonate, and Sodium Sulfate; (7) Pumice; (8) Gilsonite; (9) Talc and Pyrophyllite; (10) Boron, including Colemanite; (11) Barite; (12) Fluorospar; (13) Feldspar; (14) Diatomite; (15)Perlite (17) Mica; (18) Kyanite, including Andalusite, Sillimanite, Topaz, and Dumortierite.}	(2) Sand and Gravel; lay; (4) Rock Salt; Sodium Chloride, luding Borax, Kernite,	
<ol> <li>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?</li></ol>	—————————————————————————————————————	No No No
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.  Is the EU subject to 40 CFR part 60 subpart F (Portland Cement Plants) or	i.	
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
<ul><li>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)?</li></ul>	Yes	⊠No
equal to 9 megagrams/hour (10 tons/hour)?	Yes	⊠No

#### <u>1 –LIMESTONE PROCESSING PLANT</u>

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	l	
	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.}		
	answer to any of the six Questions 5 -10 above is "Yes" then the EU is not subject to		
	bpart 000 so skip the following questions and go directly to Question 24.		
<b>If</b>	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?		
12	. Was the EU constructed, modified, or reconstructed on or after 4/22/2008?	☐ Yes	⊠No
12	was the De constructed, mounted, or reconstructed on or arter 4/22/2000.		ZJ1 (0
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 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
	$\{A \text{ "vent" is any opening through which there is mechanically induced air flow for the}$	<del></del>	
	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

#### <u>1 –LIMESTONE PROCESSING PLANT</u>

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
<b>18.</b> Is a wet scrubber used to control emissions from the EU?	☐ Yes	⊠No
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
<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
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	☐ No ☐No ☐No ☐No

#### <u>1 –LIMESTONE PROCESSING PLANT</u>

22. If the EU is a building enclosing ar		and all enclosed EUs are not			
individually in compliance with en					
a. Was an initial PM stack test perfo					
		🖾 N	/A	Yes	☐ No
{A "vent" is any opening through wh	hich there is mechanical	ly induced air flow for the			
purpose of exhausting from a buildin	ig air carrying particula	te matter (PM) emissions from			
one or more affected EUs.}					
b. Was the EU found to be in compl	iance with the PM limit	of 0.05 g/dscm (0.022 gr/dscf)?		Yes	□No
c. Were initial fugitive emissions fro	om non-vent building op	enings less than or equal to 7%	opacity?	Yes Yes	□No
23.Is a wet scrubber used to control e	missions from the EU?			☐ Yes	⊠No
If yes, does the owner/operator main				_	_
a. a device for the continuous measu		oss of the gas stream through th	e		
		al basis in accordance with man			
				☐ Yes	□No
		manufacturer to be accurate wit			
pascals +1 inch water gauge pro	•				
and	)				
b. a device for the continuous measu	arement of the scrubbing	liquid flow rate to the wet scru	bber and the		
		ance with manufacturer's instru		Yes	□No
		manufacturer to be accurate wit			
of design scrubbing liquid flow			/ -		
24. When was the last VE test conduct	ted by the owner/opera	tor for this EU? <u>12/14/09</u>			
a. If EU is not subject to 40 CFR 60			years?	Yes	□No
b. If EU is subject to 40 CFR subpar	rt OOO:	•	•		
		ndar years?		☐ Yes	⊠No
		ar year?		Yes	⊠No
25. Was a VE test conducted by the on	<i>vner/operator</i> for this u	nit during this site visit?		Yes	□No
a. Was the VE test conducted at a process rate that is representative of the normal rate? YesNo					
Rate:					
b. Was the VE test conducted accord				☐ Yes	□No
c. The VE test resulted in an opacity of% for the highest six-minute average.					
d. Did the VE test demonstrate comp	pliance with the opacity	limit? (See chart below)		☐ Yes	□No
26. Was a VE test conducted by the in	spector for this unit du	ring this site visit?		☐ Yes	⊠No
a. Was the VE test conducted at a pr	rocess rate that is represe	entative of the normal rate?		☐ Yes	□No
Rate:	•				
b. Was the VE test conducted accord	ding to EPA Method 9?			☐ Yes	□No
c. The VE test resulted in an opacity					
d. Did the VE test demonstrate com	pliance with the opacity	limit? (See chart below)		☐ Yes	□No
	VE Ongo	rity Limits			
	EU not subject to	Subpart OOO EU	Subport	OOO EU	
	40 CFR 60	_	_		ind
		constructed, modified,		eted, modif	
	Subpart OOO	or reconstructed prior		structed o	n or
		to 4/22/2008	after 4/2		
Crusher with no capture system	20%	15%		12%	
All other affected EUs	20%	10%		7%	
		1	1		

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

RI	EASONABLE PRECAUTIONS FOR UNCONFINED EMISSIONS	(check 🗹 box for each	only one 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)? ————————————————————————————————————	⊠ 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	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  b) If tested: ()% opacity. Were the visible emissions < 20% opacity?  c) What caused the problem(s) (if known)?	Yes Yes	⊠ No □No
	ONFIRMATION OF GENERAL PERMIT ELIGIBILITY	(check 🗹 box for each q	only one
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?  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.)?	or	⊠No
	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? If YES, what other general permit units or activities?		⊠No

<u>(</u> 27	Is the total combined annual facility-wide fuel usage of all plants less than or equal to: a) 275,000 gallons of diesel fuel?		No  No  No  No  No	
GE	ENERAL CONDITIONS	(check 🗹	only one	
	Has the owner or operator allowed the circumvention of any air pollution control device, or	box for each of	only one question)	
	Allowed the emission of air pollutants without the proper operation of all applicable air pollution control devices?  Does the owner or operator:	☐ Yes	⊠No	
᠘.	a) maintain the authorized facility in good condition?	Yes	□No	
3.	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 permit and Department rules?	- 🛚 Yes	□No	
RELOCATABLE PLANT (check V only one				
	The facility:  is stationary; is relocatable; or consists of both stationary and relocatable NMMP and/or concrete batching plants. ( <i>If only stationary, skip the following questions 2 and 3.</i> )	(check <b>☑</b> box for each of	only one question)	
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? b) did the owner or operator transmit a Facility Relocation Notification Form [DEP No. 62-210.900(o to the Department or Local Air Program no later than five business days following relocation?	5)]	□No	
	If the relocatable NMMP plant was co-located at a facility with a separate air construction or air opera 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?	tion	□No	
	b) were records kept by the owner/operator to indicate how long it was co-located at the permitted facility?	☐ Yes ☐ Yes	□No □No	

CHANGES  Administrative Changes:  1. Were there any changes in the name, address, or phone nu associated with a change in ownership or with a physical roperations comprising the facility; or any other similar mi  2. If YES, did the facility provide written notification within	relocation of the facility or any emissions units or nor administrative change at the facility? Yes \inftyNo	1
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	
Max Grondahl  Inspector's Name (Please Print)	Date of Inspection	
Inspector's Signature	Approximate Date of Next Inspection	

**COMMENTS:** The crushing and limestone processing plant is located at a mine and therefore most of the reasonable precautions are not applicable. Only the "wet trommel" area of the plant, used for separation is currently in operation. The crushing operation upstream from the "wet trommel" area is been inactive since 2008. Lori Sanville said she would prepare a letter to SWD explaining the current plant status. The "wet trommel" area of EU 001 only has two transfer point subject to Subpart OOO testing requirements. One point is at the exit of the underground tunnel where the tunnel belt transfers to the incline belt leading to the trommel hopper. The second point is the drop from the incline belt to the trommel hopper. All other points are exempt. Material has a high moisture content as it is loaded into the initial hopper, and it is thoroughly saturated by the wet trommel. All points at the "sand plant", downstream from the "wet trommel" area, are exempt. The determination of which points should be tested were made by touring the plant with Lori and James. Lori also said she would send a letter in explaining which points should be considered exempt for future use during tests.