## DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION ACTIVITY REPORT: Scheduled Inspection

B887543842			
FACILITY: Crop Production Services, Inc.		SRN / ID: B8875	
LOCATION: 6901 SILBERHORN HWY., BLISSFIELD		DISTRICT: Jackson	
CITY: BLISSFIELD		COUNTY: LENAWEE	
CONTACT: Les Jones ,		ACTIVITY DATE: 03/28/2018	
STAFF: Mike Kovalchick	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR	
SUBJECT: Inspection of 3 ammonia tanks.			
RESOLVED COMPLAINTS:			

### **Minor Source-**

### **Facility Contacts**

Les Jones-Facility manager.

Les.jones@cpsagu.com

#### Purpose

On March 28, 2017, I conducted an unannounced compliance inspection of Crop Production Services, Inc. (Company) located in Blissfield, Michigan in Lenawee County. The purpose of the inspection was to determine the facility's compliance status with the applicable federal and state air pollution regulations, particularly Michigan Act 451, Part 55, Air Pollution Control Act and administrative rules and Permit to Install (PTI) #'s 245-06, 246-06, 247-06 and 91-10.

### Facility Location

The facility is located in agricultural/commercial area outside of Blissfield. See aerial photo.

### Facility Background

The facility was last inspected on 8/31/2010 and found to be in compliance.

#### **Regulatory Applicability**

PTI 245-06, 246-06, 247-06 and 91-10 are General PTI permits; each for a separate ammonia tank that is 30,000 gallons or less in size. One of the four tanks was removed in the 2014/2015 timeframe but isn't clear from the file review on exactly which tank goes with a particular permit.

There is over 1 million gallons of ammonium polyphosphate fertilizer solution present in various storage tanks. Based on previous inspection reports, no emissions are expected from these tanks. (

#### Arrival & Facility Contact

Visible emissions or odors were not observed upon my approach to the Company's facility. I arrived at 9:20 am, proceeded to the facility office to request access for an inspection, provided my identification and spoke with Les Jones(LJ)-facility operator. He was the only one present at the facility during the inspection. I informed him of my intent to conduct a facility inspection and to review the various records as necessary.

LJ extended his full cooperation and fully addressed my questions.

#### Pre-Inspection Meeting

LJ outlined that they had just started ammonia operations this week for the season and will continue until about July. LJ indicated that there had not been any recent changes at the facility other than the removal of one of the ammonia tanks in the 2014/2015 time frame. This particular tank failed a thickness test and so was removed. LJ indicated the 3 main storage tanks and all the nurse tanks were just topped off with ammonia to the 85% fill level on all the tanks. We then went through all permit conditions with responses written below in the checklist.

	Compliance	
pplicable	Status & Date	
Requirements		Comments
Process/Operational Limits	March 28, 2018	
	Compliance	
1.1 Except where specific requirements of these		
special conditions are applicable and more		
stringent, EU-AMMONIA shall comply with "Part 78, Storage and Handling of Anhydrous		
Ammonia" (MIOSHA 1910.111), hereinafter Rule		
7801. A copy of this standard, which may be obtained by contacting the Michigan		
epartment of Consumer and Industry Services,		
Bureau of Safety and Regulations, Safety		
Standards Division, 7150 Harris Drive, P.O. Box 30643, Lansing, MI 48909-8143, shall be		
naintained for inspection at the		
acility. [R336.1201a(1)] .2 The permittee shall not operate EU-	March 28, 2018	They use a checklist similar to what is found in
MMONIA unless the inspection and		Appendix A of the PTI's permits. I recommended
naintenance program specified in Appendix A has been implemented and	Compliance	that they just use Appendix A.
naintained. [R336.1201a(1)]	· Al	
3 The permittee shall not operate EU- MMONIA unless an emergency response plan,	March 28, 2019	Attachment (1) contains Operating Procedures and Emergency Response Procedures. LJ indicated that
b be followed in the event of an emergency, has	Compliance	despite repeated attempts recently, he hasn't been
een approved by the local fire department or		able to get the local volunteer fire department to
ounty emergency response agency and is plemented and maintained. Prior to each		come out to review the plan and make any updates as needed.
pring season, the permittee shall review this		
lan with the local fire department or emergency esponse agency and make any necessary		
pdates. [R336.1201a(1)]	,	
4 The permittee shall not operate EU- MMONIA unless all transfer operations	March 28, 2018	LJ is considered a "reliable person" has he has 20 years experience in this field.
cluding transport deliveries are performed by	Compliance	
reliable person properly trained and made esponsible for proper compliance with all		
oplicable procedures.		
5 Nurse and applicator tank storage shall be oless than 50 feet from the property line; 150	March 28, 2018	The setback requirements appear to be met since they are not located close to any of the receptors.
eet from any existing places of residence or	Compliance	they are not located close to any of the receptors.
rivate or public assembly; 250 feet from a		
school, apartment building, or institutional occupancy; and no less than 1000 feet from a		
ospital or nursing home. [R336.1201a(1)] .6 Nurse tank filling shall be done only from a	March 28, 2018	There are 2 permanent aphydrous ammenia afarras
bermanent stationary storage tank.	Walti 20, 2010	There are 3 permanent anhydrous ammonia storage tanks and numerous nurse tanks at this location
	Compliance	today.
.7 Nurse and applicator tanks shall be filled to o more than 85 percent of liquid capacity by	March 28, 2018	All nurse tanks have volume gauge installed.
olume. Storage tanks may be filled according	Compliance	The supply tanks also have volume gauges. Onsite
o temperature density correction tables in Rule 801(b)(11) where tanks have a thermometer		inspection shows all tanks at 85% fill level.
rell and suitable level gauge. [R336.1201a(1)]		
8 Vapor return lines shall be employed	March 28, 2018	LJ showed me that all 3supply tanks are hooked in
henever necessary to ensure an accidental elease from pressure relief valves will not	Compliance	parallel to the dual loading station where 4 nurse tanks can be loaded at once. They can load on
ccur during ammonia transfer		either side of the rack. They have vapor return lines
perations. [R336.1201a(1)] 9 Nitrogen stabilizer shall not be added to any	March 28, 2018	to regulate the pressure. The nitrogen stabilizer is only added to the nurse
ermanent stationary storage tank or to rail or		tanks.
uck transport tanks. [R336.1201a(1)]	Compliance	Varification of actate relief value and the state
quipment	March 28, 2018	Verification of safety relief valves was not done due to the unsafe conditions of reaching the top of the
	Compliance	supply storage tanks. Relief values were all replace
		in the Fall of 2017.

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1.10 All containers shall be filled with safety		
relief valves in accordance with Rule 7801(b)		
(9). Such valves shall be stamped with the date		
manufactured, and shall be replaced, or re-		
tested and re-certified, at least every five years or more often if there is evidence of damage or		
deterioration. [R336.1201a(1)]		
1.11 The permittee shall not operate EU-	March 28, 2018	A manual shut off is located near the storage tanks.
AMMONIA unless a remotely operated internal		A manual shar on is fooded field the storage tanks.
or external positive shut-off valve is installed to		
allow access for emergency shut-off of all flow	Compliance	
from stationary storage containers. [R336.1201a		
(1)]		
1.12 The permittee shall not operate EU-	March 28, 2018	They have a dry lock triggered on pull off's
AMMONIA unless a bulkhead, anchorage, or		according to LJ.
equivalent system is used at each transfer area		
so that any break resulting from a pull will occur	Compliance	
at a predictable location while retaining intact		
the valves and piping on the plant side of the		
transfer area. [R336.1201a(1)]		
1.13 The permittee shall not operate EU-	March 28, 2018	The liquid and vapor lines are recirculated back to
AMMONIA unless any liquid lines in rail and		the supply tank.
transport transfer areas are equipped with back	Compliance	
pressure check valves and al liquid lines not requiring a back check valve and all vapor lines		
are equipped with properly sized excess flow		
valves. These valves shall be installed on the	1 ·	
main container side of the predictable break		
point at the bulkhead. [R336.1201a(1)]		
1.14 All hoses shall be replaced five years after	March 28, 2018.	All hoses replaced in Fall, 2018.
date of manufacture or more often if there is		•
evidence of damage or	Compliance	
deterioration. [R336.1201a(1)]	•	
1.15 Any vapor or liquid line, exclusive or	March 28, 2018	A tank larger than 55 gallons is utilized. It was
couplings, requiring venting after		confirmed later during the inspection.
ammonia transfer shall be vented through a	Compliance	
water trap of 55 gallons minimum size. Safety		
water shall not be used for this		
purpose. [R336.1201a(1)]	March 00, 0040	
1.16 A sign shall be present and conspicuously	March 28, 2018	Several signs were in place.
placed at the facility entrance stating the	Camalian	
emergency phone numbers for the owner, primary operator, local and state police, local	Compliance	
fire department, and ambulance		
service. [R336.1201a(1)]		
1.17 EU-AMMONIA shall be located a minimum	March 28, 2018	The setback requirements appear to be met since
of 50 feet from the property line, 300 feet from	march 20, 2010	they are not located close to any of the receptors.
any existing places of residence or private or	Compliance	they are not robated blobe to any of the robeptors.
public assembly, 500 feet from a school,	Compliance	
apartment building, or institutional occupancy,		

of 50 feet from the property line, 300 feet from any existing places of residence or private or public assembly, 500 feet from a school, apartment building, or institutional occupancy, and not less than 1000 feet from a hospital or nursing home. [R336.1201a(1)]	Compliance	they are not located close to any of the receptors
Recordkeeping/Reporting/Notification	March 28, 2018	There has been no abnormal releases to report.
	Compliance	
1.18 The permittee shall notify the Pollution Emergency Alert System (PEAS) 1-800-292-4706 and/or the AQD District Supervisor immediately of any abnormal release of anhydrous ammonia from EU-AMMONIA. A normal release includes only hose coupling bleed downs, operation of hydrostatic relief valves, and normal pressure relief from the safety relief valve(s). Relief due to overfilling is not normal. All records shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1201a(1)]		
1.19 The permittee shall keep, in a satisfactory manner, records of the date, duration, and description of any malfunction or spill occurring from EU-AMMONIA, including the estimated amount of ammonia released into the atmosphere. Do not include trace amounts from normal hose coupling bleed downs. All records	March 28, 2018 Compliance	There has not been any malfunctions or spills.

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<ul> <li>shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1201a(1)]</li> <li>1.20 The permittee shall keep, in a satisfactory manner, records of the date of annual review and approval of the emergency response plan with the local fire department. All records shall be kept on file for a period of at least five years and made available to the Department upon request. [R336.1201a(1)]</li> </ul>	March 28, 2018. Compliance	See previous comment.
Miscellaneous/Allowed Modification	August 31, 2010 Compliance	Nothing new has been added recently. LJ mentioned that they may remove all ammonia storage tanks from the facility in a few years.
1.21 The permittee shall not replace or modify EU-AMMONIA or any portion of EU-AMMONIA, or install new equipment unless all of the following conditions are met. [R336.1201a(1)]		
a) The permittee shall update the general permit by submitting a new Process Information Form (EQP5731) to the Permit Section and District Supervisor, identifying the existing and new/additional equipment a minimum of 10 days before the equipment is replaced, modified or installed.		
b) The permittee shall continue to meet all general permit to install applicability criteria after the replacement, modification or installation of new equipment is complete.		
c) The permittee shall keep records of the date and description of any replacement, modification or installation of new equipment. All records shall be kept on file for a period of at least five years and made available to the Department upon request.		

## **Onsite Inspection**

LJ gave me a brief tour of the facility. See attached photos. No ammonia odors were noted. Everything appeared to be well maintained. The fill gauges on all the permanent storage tanks were checked and found to be at 85%. The loading rack area appeared to be in good shape with the new hoses evident. LJ pointed out the emergency pullaway protection system in place. See Attachment (2). 2 rows of nurse tanks were present. LJ indicated that farmers come with pick-up trucks and haul the nurse tanks to the farm as needed. All ammonia arrives by truck. A tank filled with water is used for the vapor lines coming out of trucks unloading ammonia to the permanent tanks. See attached photo. The water/ammonia water is later applied to a field. LJ indicated that all the permanent tanks would be painted this Summer. Some chipped paint was noted on the exterior of the tanks.

## **Recordkeeping/Permit Requirements Review**

Attachment (3) is example NTIP DOT inspection report for one of the nurse tanks. All of the nurse tanks were pressure tested last summer. (They are tested every 5 years.)

## **Post-Inspection Meeting**

I held a brief post-inspection meeting with LJ. I indicated to them that I didn't have any findings but suggested he keep trying to arrange for the fire department to come out to the review the plan or contact the local county emergency agency instead to do the review of the emergency plan. I thanked LJ for his time and cooperation, and I departed the facility at approximately 10:20 am.

# **Compliance Summary**

The Company is in compliance.



Image 1(Aerial photo) : Aerial photo.



Image 2(Sign) : In Case of Emergency sign



Image 3(Ammonia tnaks) : The 3 ammonia tanks.



Image 4(Loading rack) : Loading rack.



Image 5(Gauge) : Gauge on one of the ammonia tanks showing 85% full.



# Image 6(Nurse tanks) : Nurse tanks.



Image 7(Bleed off tank): Trucks attach vapor lines to this tank when unloading ammonia into main ammonia storage tanks.



NAME Millovaldur DATE 3/30/15 SUPERVISOR