

**Iowa Department of Natural Resources
Title V Operating Permit**

Name of Permitted Facility: Monsanto Company - Muscatine

Facility Location: 2500 Wiggins Road, Muscatine, IA 52761

Air Quality Operating Permit Number: 04-TV-006R2

Expiration Date: June 14, 2021

Permit Renewal Application Deadline: December 14, 2020

EIQ Number: 92-6908

Facility File Number: 70-01-008

Responsible Official

Name: Shawn Schrader

Title: Plant Manager

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Permit Contact Person for the Facility

Name: Sheri Traser-Schmalz

Title: SQESH Area Leader

Mailing Address: PO Box 473, Muscatine, IA 52761

Phone #: (563) 262-7482

This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Air Operating Permits Section

Date

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Abbreviations

acfm	actual cubic feet per minute
CFR	Code of Federal Regulation
CE	control equipment
CEM	continuous emission monitor
°F	degrees Fahrenheit
EIQ	emissions inventory questionnaire
EP	emission point
EU	emission unit
gr/dscf	grains per dry standard cubic foot
gr/100 cf	grains per one hundred cubic feet
IAC	Iowa Administrative Code
DNR	Iowa Department of Natural Resources
MVAC	motor vehicle air conditioner
NAICS	North American Industry Classification System
NSPS	new source performance standard
ppmv	parts per million by volume
lb/hr	pounds per hour
lb/MMBtu	pounds per million British thermal units
SCC	Source Classification Codes
scfm	standard cubic feet per minute
SIC	Standard Industrial Classification
TPY	tons per year
USEPA	United States Environmental Protection Agency

Pollutants

PM	particulate matter
PM ₁₀	particulate matter ten microns or less in diameter
PM _{2.5}	particulate matter 2.5 microns or less in diameter
SO ₂	sulfur dioxide
NO _x	nitrogen oxides
VOC	volatile organic compound
CO	carbon monoxide
HAP	hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: Monsanto Company - Muscatine

Permit Number: 04-TV-006R2

Facility Description: Agricultural Chemical Manufacturing (SIC 2879)

Liquid Formulations Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
253	EU-10-5039-401	#1 Raw Material Storage Tank	99-A-884-S1
254	EU-10-5039-412	#2 Raw Material Storage Tank	99-A-885-S2
255	EU-10-5039-421	#3 Raw Material Storage Tank	99-A-886-S2
256	EU-10-5039-429	#4 Raw Material Storage Tank	99-A-887-S1
336	EU-10-0741	#6 Raw Material Storage Tank	99-A-182-S1
309	EU-10-0594	#1 Amine Salt Storage Tank	97-A-186-S5
335	EU-10-0727	#2 Amine Salt Storage Tank	98-A-940-S4
356	EU-10-0812	#3 Amine Salt Storage Tank	99-A-1077-S3
357	EU-10-0815	#4 Amine Salt Storage Tank	99-A-1078-S3
366	EU-10-0945	#5 K Salt Storage Tank	01-A-1352-S1
367	EU-10-0951	#6 K Salt Storage Tank	01-A-1353-S1
41	EU-8TK-1	#1 Solvent Storage Tank	99-A-883-S1
40	EU-8-2836-339	#2 Solvent Storage Tank	NA
43	EU-8-2836-337	#3 Solvent Storage Tank	NA
23	EU-10-2014-105	#1 Emulsifier Tank	NA
25	EU-10-2014-207	#2 Emulsifier Tank	NA
46	EU-10TK-5	#3 Emulsifier Tank	NA
259	EU-10TK-23	#4 Emulsifier Tank	99-A-894-S1
247	EU-10TK-22	#5 Emulsifier Tank	99-A-895-S1
257	EU-10-5039-437	#6 Emulsifier Tank	99-A-888-S1
322	EU-10-0614	#7 Emulsifier Tank	97-A-755-S2
323	EU-10-0617	#8 Emulsifier Tank	97-A-756-S2
344	EU-10-0753	10-0753 Herbicide Additive Tank	99-A-511-S1
345	EU-10-0758	#10 Emulsifier Tank	99-A-512
34	EU-10TK-3	Additive Tank	NA
24	EU-10-2014-113	#1 Blend Tank	NA
26	EU-10-2014-210	#2 Blend Tank	NA
42	EU-10TK-26	#3 Blend Tank	NA
139	EU-10D-1	#4 Blend Tank	01-A-769-S1
289	EU-10-581	#5 Blend Tank	NA
260	EU-10TK-24	Small Blend Tank	99-A-897-S1
258	EU-10-5039-453	#1 Product Storage Tank	99-A-890-S1
248	EU-10-5025-461	#2 Product Storage Tank	99-A-891-S1
249	EU-10-5025-466	#3 Product Storage Tank	99-A-892-S1
250	EU-10-5025-471	#4 Product Storage Tank	99-A-893-S1

Liquid Formulations Equipment List (cont.)

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
251	EU-10-5025-445	#5 Product Storage Tank	99-A-889-S2
290	EU-10-584	#6 Product Storage Tank	NA
332	EU-10-662	#7 Product Storage Tank	98-A-551
333	EU-10-710	#8 Product Storage Tank	98-A-623-S1
334	EU-10-711	#9 Product Storage Tank	98-A-624-S1
369	EU-10-180	#10 Product Storage Tank	02-A-220
202	EU-10-3773-410	High Speed Jugline	14-A-481
137	EU-10FN-22	Spent Product Filter Drying (Jugging)	NA
172	EU-10FN-2	#1 Drum Filling	NA
173	EU-10FN-3-1	Spent Product Filter Drying (Drumming)	NA
	EU-10FN-3-2	Product Shuttle Filling	
144	EU-8BL-1	#1 South Bulk Loading	NA
145	EU-8BL-2	#2 South Bulk Loading	NA
207	EU-10BL-1	Bulk Rail Loading	13-A-516-S1
208	EU-10BL-2	Bulk Truck Loading	NA
329	EU-10BL-3	Bulk Truck Loading	98-A-002-S2
359	EU-10-0897	N.E. Rail Loading	01-A-559-S1
370	EU-10BL-4	Bulk Product Rail Loading	02-A-221
241	EU-10TK-21	Wastewater Tank	99-A-896
27	EU-10FUG-3	Liquid Formulations Blending (Non-captured)	NA
28	EU-10FUG-1	Liquid Formulations Packaging (Non-captured)	NA
407	EU-10-1351	North D-Form Truck Loading	15-A-026
408	EU-10-1365	D-Form Jug Fill Surge Tank	15-A-027-S1
	EU-10-1411	D-Form Jugline	
	EU-10-1447	D-Form Shuttle Line	

Liquid Formulations Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-10-0603	#2 Drum Filling
EU-10-0930	Custom Blend Tank
EU-10-0935	Formulations Test Storage Tank
EU-10-0936	Formulations Test Storage Tank
EU-10-0937	Formulations Test Storage Tank
EU-10-0937A	Formulations Test Storage Tank
EU-10-0938	Formulations Test Storage Tank
EU-10-0939	Formulations Test Storage Tank
EU-10-1143	#5 Raw Material Storage Tank
EU-10-1207	Automated Shuttle Station
EU-10-1219	Custom Blend Tank #2
EU-10-1223	Custom Blend Tank #2 Drum Filling
EU-10-1311	Salt Storage Surge Tank
EU-10-1314	Cont EA-GLY Surge Tank
EU-10-1316	Dicamba Salt Day Tank
EU-10-1330	Product Tank #11
EU-10-1340	Product Tank #12
EU-10-1360	Product Surge Tank
EU-10-1370	ACE Surge Tank
EU-10-1380	Dicamba Waste Tank
EU-10-1390	#6 Blend Tank
EU-10-1480	Dicamba Rail Unloading Tank
EU-10-1490	#7 K-Salt Storage Tank
EU-10-3773-420	High Speed Jug Line Sump Tank
EU-10-551	Citric Acid Tank

Flowable Formulations Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
182	EU-14TK-33	Raw Material Storage Tank	99-A-513
346	EU-14TK-38	Raw Material Storage Tank	99-A-514
310	EU-14TK-356	PAPI Storage Tank	96-A-1263
347	EU-14-464	Isocyanate Storage Tank	99-A-515
361	EU-14-0828	Herbicide Additive Storage Tank	01-A-826
303	EU-14TK-26	Herbicide Additive/Product Storage Tank	NA
311	EU-14TK-300	PAPI Feed Tank	96-A-1264
326	EU-14TK-306	Isocyanate Feed Tank	97-A-860
272	EU-14TK-31	Residence Time Tank	93-A-138
187	EU-14TK-101	Product Storage Tank	96-A-267-S1
188	EU-14TK-102	Product Storage Tank	96-A-268-S1
211	EU-14TK-390	Product Storage Tank	96-A-265-S2
212	EU-14TK-391	Product Storage Tank	96-A-266-S2
216	EU-14TK-32	Premix Tank	86-A-019-S6
	EU-14TK-36	Formulation Tank	
	EU-14TK-751	Formulation Tank	
	EU-14-186	East Supersack Unloading	
	EU-14-187	West Supersack Unloading	
	EU-14-763	North Supersack Unloading	
339	EU-14RV	Rotary Valves	99-A-395-S1
	EU-14TK-13	West Stabilizer Tank	
	EU-14TK-21	East Stabilizer Tank	
186	EU-14BL-1	East Bulk Herbicide Loading	99-A-898
171	EU-14BL-2	West Bulk Herbicide Loading	99-A-899
363	EU-14BL-3	Bulk Truck Loading/Unloading	02-A-902
368	EU-14-875	Flowables Rail Spot 7	02-A-903-S1
389	EU-14-0899	Flowables Rail Spot 8	03-A-312-S2
395	EU-14-0975	Seed Corn Handling	06-A-1025-S2
159	EU-14-FUG-1	Flowables (Non-Captured)	NA
409	EU-14-0887	Flowables Rail Spot 4	15-A-579

Flowable Formulations Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-14-0404	Glycol Tank
EU-14-0895	Flowables Process Rinsewater Tank
EU-14-1020	Screen Surge Tank #2
EU-14TK-2	Rinsate Tank #2
EU-14TK-200	Raw Material Storage Tank
EU-14TK-202	HMD Storage Tank
EU-14TK-216	Densification Tank 216
EU-14TK-221	Densification Tank 221
EU-14TK-227	Densification Tank 227
EU-14TK-229	#1 Waste Tank
EU-14TK-231	#2 Waste Tank
EU-14TK-241	Chiller Surge Tank
EU-14TK-255	Divert Tank
EU-14TK-27	Process Sump Tank
EU-14TK-274	Additive Feed Tank
EU-14TK-28	Additive Mix Tank
EU-14TK-280	Product Surge Tank
EU-14TK-308	HMD Feed Tank
EU-14TK-316	Release Tank 316
EU-14TK-318	Release Tank 318
EU-14TK-322	Release Tank 322
EU-14TK-32C	Premix Tank
EU-14TK-35	Multipurpose Storage Tank
EU-14TK-350A	350 Storage Tank

II. Plant-Wide Conditions

Facility Name: Monsanto Company - Muscatine

Permit Number: 04-TV-006R2

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

Permit Duration

The term of this permit is: Five Years

Commencing on: June 15, 2016

Ending on: June 14, 2021

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

Emission Limits

Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:

Opacity (visible emissions): 40% opacity

Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO₂): 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as

scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizer or limestone.
4. Covering, at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.
6. Reducing the speed of vehicles traveling over on-property surfaces as necessary to minimize the generation of airborne dusts.

Authority for Requirement: 567 IAC 23.3(2)"c"

NESHAP Applicability

This facility is subject to 40 CFR 63 Subpart FFFF – Miscellaneous Organic Chemical Manufacturing (MON) MACT. See Appendix A for rule reference link.

Applicable requirements are incorporated in the Emission Point Specific Conditions.

Authority for Requirements: 40 CFR 63 Subpart FFFF
567 IAC 23.1(4)"cf"

Multiple Title V Permits

Monsanto Company has obtained three Title V permits for their Muscatine facility. The facility will be considered as a whole with regard to applicability of various air permitting programs. This permit covers two process areas at the facility: the Liquid Formulations facility and the Flowable Formulations facility.

- The Flowable Formulations are typically water-based liquid herbicide formulations consisting of herbicide technical ingredients and other herbicide additives. Both microencapsulated and non-microencapsulated formulations are produced.
- The Liquid Formulations area formulates, packages, and ships herbicide products, herbicide technical active ingredients, and formulated herbicide premixes. The Liquid Formulations Facility packages and ships products in jugs, drums, shuttles, and mini-bulk containers. There are also facilities for providing bulk shipment of products in rail cars or tank trucks.

Other Title V Permits

DNR issued permit 04-TV-002R1 (for EIQ # 92-3670) to cover the CAC Facility, GT unit, and the Multipurpose unit at this facility.

- The CAC Facility produces the herbicide intermediate chloroacetyl chloride (CAC). CAC is used at the Muscatine facility to produce alachlor, acetochlor, butachlor, and propachlor.
- The Glyphosate Technical (GT) Unit produces two salts of glyphosate: amine salt and potassium salt. These salt solutions are considered herbicide active ingredients.
- The Multipurpose Unit may be used to produce two products on a campaign basis. Part of the year, the unit may produce MON13900 (furalazole), a seed safener that is blended with acetochlor for use by Monsanto's formulation facilities. Additionally, the unit may manufacture MON1400, a herbicide active ingredient. These products cannot be made simultaneously.

DNR issued permit 04-TV-010R1 (for EIQ # 92-6909) to cover the A-Unit, and the Unit Services.

- The A-Unit Facility produces the acetanilide family of herbicides: alachlor, acetochlor and butachlor. These herbicide active ingredients are transferred to other areas in the plant where they are formulated into finished products and packaged.
- The Unit Services area provides utilities and wastewater treatment for the plant. This includes steam production, wastewater treatment, groundwater withdrawal, drinking water treatment, demineralized water supply to process operations and boiler feeds, and supply of utility chemicals (nitrogen, caustic, and ammonia).

III. Emission Point-Specific Conditions

Facility Name: Monsanto Company - Muscatine

Permit Number: **04-TV-006R2**

Liquid Formulations Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
253	EU-10-5039-401	#1 Raw Material Storage Tank	99-A-884-S1
254	EU-10-5039-412	#2 Raw Material Storage Tank	99-A-885-S2
255	EU-10-5039-421	#3 Raw Material Storage Tank	99-A-886-S2
256	EU-10-5039-429	#4 Raw Material Storage Tank	99-A-887-S1
336	EU-10-0741	#6 Raw Material Storage Tank	99-A-182-S1
309	EU-10-0594	#1 Amine Salt Storage Tank	97-A-186-S5
335	EU-10-0727	#2 Amine Salt Storage Tank	98-A-940-S4
356	EU-10-0812	#3 Amine Salt Storage Tank	99-A-1077-S3
357	EU-10-0815	#4 Amine Salt Storage Tank	99-A-1078-S3
366	EU-10-0945	#5 K Salt Storage Tank	01-A-1352-S1
367	EU-10-0951	#6 K Salt Storage Tank	01-A-1353-S1
41	EU-8TK-1	#1 Solvent Storage Tank	99-A-883-S1
40	EU-8-2836-339	#2 Solvent Storage Tank	NA
43	EU-8-2836-337	#3 Solvent Storage Tank	NA
23	EU-10-2014-105	#1 Emulsifier Tank	NA
25	EU-10-2014-207	#2 Emulsifier Tank	NA
46	EU-10TK-5	#3 Emulsifier Tank	NA
259	EU-10TK-23	#4 Emulsifier Tank	99-A-894-S1
247	EU-10TK-22	#5 Emulsifier Tank	99-A-895-S1
257	EU-10-5039-437	#6 Emulsifier Tank	99-A-888-S1
322	EU-10-0614	#7 Emulsifier Tank	97-A-755-S2
323	EU-10-0617	#8 Emulsifier Tank	97-A-756-S2
344	EU-10-0753	10-0753 Herbicide Additive Tank	99-A-511-S1
345	EU-10-0758	#10 Emulsifier Tank	99-A-512
34	EU-10TK-3	Additive Tank	NA
24	EU-10-2014-113	#1 Blend Tank	NA
26	EU-10-2014-210	#2 Blend Tank	NA
42	EU-10TK-26	#3 Blend Tank	NA
139	EU-10D-1	#4 Blend Tank	01-A-769-S1
289	EU-10-581	#5 Blend Tank	NA
260	EU-10TK-24	Small Blend Tank	99-A-897-S1
258	EU-10-5039-453	#1 Product Storage Tank	99-A-890-S1
248	EU-10-5025-461	#2 Product Storage Tank	99-A-891-S1
249	EU-10-5025-466	#3 Product Storage Tank	99-A-892-S1
250	EU-10-5025-471	#4 Product Storage Tank	99-A-893-S1

Liquid Formulations Equipment List (cont.)

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
251	EU-10-5025-445	#5 Product Storage Tank	99-A-889-S2
290	EU-10-584	#6 Product Storage Tank	NA
332	EU-10-662	#7 Product Storage Tank	98-A-551
333	EU-10-710	#8 Product Storage Tank	98-A-623-S1
334	EU-10-711	#9 Product Storage Tank	98-A-624-S1
369	EU-10-180	#10 Product Storage Tank	02-A-220
202	EU-10-3773-410	High Speed Jugline	14-A-481
137	EU-10FN-22	Spent Product Filter Drying (Jugging)	NA
172	EU-10FN-2	#1 Drum Filling	NA
173	EU-10FN-3-1	Spent Product Filter Drying (Drumming)	NA
	EU-10FN-3-2	Product Shuttle Filling	
144	EU-8BL-1	#1 South Bulk Loading	NA
145	EU-8BL-2	#2 South Bulk Loading	NA
207	EU-10BL-1	Bulk Rail Loading	13-A-516-S1
208	EU-10BL-2	Bulk Truck Loading	NA
329	EU-10BL-3	Bulk Truck Loading	98-A-002-S2
359	EU-10-0897	N.E. Rail Loading	01-A-559-S1
370	EU-10BL-4	Bulk Product Rail Loading	02-A-221
241	EU-10TK-21	Wastewater Tank	99-A-896
27	EU-10FUG-3	Liquid Formulations Blending Fugitives	NA
28	EU-10FUG-1	Liquid Formulations Packaging Fugitives	NA
407	EU-10-1351	North D-Form Truck Loading	15-A-026
408	EU-10-1365	D-Form Jug Fill Surge Tank	15-A-027-S1
	EU-10-1411	D-Form Jugline	
	EU-10-1447	D-Form Shuttle Line	

Emission Point ID Number: 253

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
253	EU-10-5039-401	#1 Raw Material Storage Tank	NA	Herbicide Additive	30,000 gallons	99-A-884-S1

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. A record of all materials stored in this shall be maintained. An MSDS shall be kept for all materials stored.
2. The amount of material put through this vessel over the previous month shall be recorded at the end of each month. The total amount of material put through this vessel over the previous twelve months shall also be recorded at the end of each month.
3. An estimate of the amount of VOCs emitted from this vessel over the previous month shall be recorded at the end of each month. The total amount of VOCs emitted from this vessel over the previous twelve month shall also be recorded at the end of each month.

Authority for Requirement: DNR Construction Permit 99-A-884-S1

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 43
- Stack Opening, (inches, dia.): 8
- Exhaust Flow Rate (scfm): Natural Draft
- Exhaust Temperature (°F): 86
- Discharge Style: Horizontal
- Authority for Requirement: DNR Construction Permit 99-A-884-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

- Agency Approved Operation & Maintenance Plan Required?** Yes No
- Facility Maintained Operation & Maintenance Plan Required?** Yes No
- Compliance Assurance Monitoring (CAM) Plan Required?** Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 254

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
254	EU-10-5039-412	#2 Raw Material Storage Tank	NA	Herbicide Additive	30,000 gallons	99-A-885-S2

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. This emission point (EP 254) is allowed to store surfactants, herbicide products and technical (pure) herbicides, including herbicides containing 2,4-D Salts and Esters.
2. The maximum true vapor pressure of any material (i.e., surfactants, herbicides, etc.) stored in this storage tank (EP 254) shall not exceed 15 kPa.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The permittee shall maintain a list of all materials that are stored in this emission unit. For each material the following shall be identified:
 - a. Whether or not it contains an organic HAP, and,
 - b. The partial pressure of each organic HAP containing material.
2. The permittee shall maintain a copy of the Material Safety Data Sheet (MSDS) for all materials stored in this emission unit.
3. The permittee shall meet all the applicable requirements of notification reporting and recordkeeping as specified in 40 CFR §63.2515, §63.2520 and §63.2525.

Authority for Requirement: DNR Construction Permit 99-A-885-S2

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 43
- Stack Opening, (inches, dia.): 4
- Exhaust Flow Rate (scfm): Natural Draft
- Exhaust Temperature (°F): 86
- Discharge Style: Downward
- Authority for Requirement: DNR Construction Permit 99-A-885-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

- Agency Approved Operation & Maintenance Plan Required?** Yes No
- Facility Maintained Operation & Maintenance Plan Required?** Yes No
- Compliance Assurance Monitoring (CAM) Plan Required?** Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 255

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
255	EU-10-5039-421	#3 Raw Material Storage Tank	NA	Herbicide Additive	30,000 gallons	99-A-886-S2

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. The permittee shall maintain maximum true vapor pressure less than 15 kPa for this storage tank (EP 255).

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The permittee shall maintain records for all materials stored in this emission unit.
2. The permittee shall maintain a copy of the Material Safety Data Sheet (MSDS) for all materials stored in this emission unit.
3. The permittee shall determine the group status for this emission unit as specified in 40 CFR §63.2460(b).
4. The permittee shall meet all the applicable requirements of notification reporting and recordkeeping as specified in 40 CFR §63.2515, §63.2520 and §63.2525.

Authority for Requirement: DNR Construction Permit 99-A-886-S2

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 43
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (scfm): Natural Draft
Exhaust Temperature (°F): 86
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 99-A-886-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 256

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
256	EU-10-5039-429	#4 Raw Material Storage Tank	NA	Herbicide Additive	30,000 gallons	99-A-887-S1

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. A record of all materials stored in this shall be maintained. An MSDS shall be kept for all materials stored.
2. The amount of material put through this vessel over the previous month shall be recorded at the end of each month. The total amount of material put through this vessel over the previous twelve months shall also be recorded at the end of each month.
3. An estimate of the amount of VOCs emitted from this vessel over the previous month shall be recorded at the end of each month. The total amount of VOCs emitted from this vessel over the previous twelve month shall also be recorded at the end of each month.

Authority for Requirement: DNR Construction Permit 99-A-887-S1

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 43
- Stack Opening, (inches, dia.): 8
- Exhaust Flow Rate (scfm): Natural Draft
- Exhaust Temperature (°F): 86
- Discharge Style: Horizontal
- Authority for Requirement: DNR Construction Permit 99-A-887-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

- Agency Approved Operation & Maintenance Plan Required?** Yes No
- Facility Maintained Operation & Maintenance Plan Required?** Yes No
- Compliance Assurance Monitoring (CAM) Plan Required?** Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 336

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10-0741	#6 Raw Material Storage Tank	NA	Herbicide Technical	26,000 gallons	99-A-182-S1

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. The material stored in the tank must have a true vapor pressure less than 15 kPa or 2.176 psia.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator of the equipment shall maintain records of the vapor pressure of all materials stored in the tank.

Authority for Requirement: DNR Construction Permit 99-A-182-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 48
- Stack Opening, (inches, dia.): 8
- Exhaust Flow Rate (scfm): Natural Draft
- Exhaust Temperature (°F): 122
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 99-A-182-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

- Agency Approved Operation & Maintenance Plan Required?** Yes No
- Facility Maintained Operation & Maintenance Plan Required?** Yes No
- Compliance Assurance Monitoring (CAM) Plan Required?** Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 309, 335, 356, 357

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
309	EU-10-0594	#1 Amine Salt Storage Tank	NA	Herbicide Technical	250,000 gallons	97-A-186-S5
335	EU-10-0727	#2 Amine Salt Storage Tank	NA	Herbicide Technical	250,000 gallons	98-A-940-S4
356	EU-10-0812	#3 Amine Salt Storage Tank	NA	Herbicide Technical	250,000 gallons	99-A-1077-S3
357	EU-10-0815	#4 Amine Salt Storage Tank	NA	Herbicide Technical	250,000 gallons	99-A-1078-S3

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The total emissions from these emission points shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 13.2 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 97-A-186-S5, 98-A-940-S4,
99-A-1077-S3, 99-A-1078-S3

⁽¹⁾ Total VOC emissions for EP's 306, 307, 307A, 309, 312, 313, 318, 319, 335, 338, 356, 357

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Emission Point	Stack Height, (ft, from the ground)	Stack Opening, (inches, dia.)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement
309	50	8	Natural Draft	120	Vertical Unobstructed	97-A-186-S5
335	50	8	Natural Draft	105	Downward	98-A-940-S4
356	50	8	Natural Draft	122	Downward	99-A-1077-S3
357	50	8	Natural Draft	122	Downward	99-A-1078-S3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 366 & 367

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
366	EU-10-0945	#5 K Salt Storage Tank	NA	Herbicide Technical	250,000 gallons	01-A-1352-S1
367	EU-10-0951	#6 K Salt Storage Tank	NA	Herbicide Technical	250,000 gallons	01-A-1353-S1

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. Each tank shall only store volatile organic liquids with a maximum true vapor pressure less than 3.5 kPa.
2. Each tank shall store material that contains no organic HAPs or contains organic HAP as impurities only.

Authority for Requirement: DNR Construction Permits 01-A-1352-S1, 01-A-1353-S1

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall keep records showing the maximum true vapor pressure of the material stored in the vessel.
2. The owner or operator shall keep records demonstrating that the only organic HAPs found in the storage vessel are as impurities only.

Authority for Requirement: DNR Construction Permits 01-A-1352-S1, 01-A-1353-S1

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 47.3

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): Natural Draft

Exhaust Temperature (°F): 104

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permits 01-A-1352-S1, 01-A-1353-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 41, 40, 43Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
41	EU-8TK-1	#1 Solvent Storage Tank	NA	Chlorobenzene	75,000 gallons	99-A-883-S1
40	EU-8-2836-339	#2 Solvent Storage Tank	NA	C-9 Solvent	75,000 gallons	NA
43	EU-8-2836-337	#3 Solvent Storage Tank	NA	A-200 Solvent	75,000 gallons	NA

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Required for EP 41 only**Reporting & Record keeping:**

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. A record of all materials stored in this shall be maintained. An MSDS shall be kept for all materials stored.
2. The amount of material put through this vessel over the previous month shall be recorded at the end of each month. The total amount of material put through this vessel over the previous twelve months shall also be recorded at the end of each month.
3. An estimate of the amount of VOC's emitted from this vessel over the previous month shall be recorded at the end of each month. The total amount of VOC's emitted from this vessel over the previous twelve month shall also be recorded at the end of each month.

Authority for Requirement: DNR Construction Permit 99-A-883-S1

Emission Point Characteristics

Emission Point 41 shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 22
- Stack Opening, (inches, dia.): 6
- Exhaust Flow Rate (scfm): Natural Draft
- Exhaust Temperature (°F): 86
- Discharge Style: Downward
- Authority for Requirement: Iowa DNR Construction Permit 99-A-883-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

- Agency Approved Operation & Maintenance Plan Required?** Yes No
- Facility Maintained Operation & Maintenance Plan Required?** Yes No
- Compliance Assurance Monitoring (CAM) Plan Required?** Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 23, 25, 46

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
23	EU-10-2014-105	#1 Emulsifier Tank	NA	Herbicide Additive	15,000 gallons	NA
25	EU-10-2014-207	#2 Emulsifier Tank	NA	Herbicide Additive	25,000 gallons	NA
46	EU-10TK-5	#3 Emulsifier Tank	NA	Herbicide Additive	15,000 gallons	NA

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 259, 247, 257

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
259	EU-10TK-23	#4 Emulsifier Tank	NA	Herbicide Additive	25,000 gallons	99-A-894-S1
247	EU-10TK-22	#5 Emulsifier Tank	NA	Herbicide Additive	25,000 gallons	99-A-895-S1
257	EU-10-5039-437	#6 Emulsifier Tank	NA	Herbicide Additive	31,000 gallons	99-A-888-S1

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. A record of all materials stored in this shall be maintained. An MSDS shall be kept for all materials stored.
2. The amount of material put through this vessel over the previous month shall be recorded at the end of each month. The total amount of material put through this vessel over the previous twelve months shall also be recorded at the end of each month.
3. An estimate of the amount of VOCs emitted from this vessel over the previous month shall be recorded at the end of each month. The total amount of VOCs emitted from this vessel over the previous twelve month shall also be recorded at the end of each month.

Authority for Requirement: DNR Construction Permit 99-A-894-S1, 99-A-985-S1, 99-A-888-S1

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Emission Point	Stack Height, (ft, from the ground)	Stack Opening, (inches, dia.)	Exhaust Flow Rate (scfm)	Exhaust Temperature (8F)	Discharge Style	Authority for Requirement
259	39	6	Natural Draft	122	Downward	99-A-894-S1
247	33	6	Natural Draft	122	Downward	99-A-895-S1
257	43	6	Natural Draft	86	Horizontal	99-A-888-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 322, 323

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
322	EU-10-0614	#7 Emulsifier Tank	NA	Herbicide Additive	26,000 gallons	97-A-755-S2
323	EU-10-0617	#8 Emulsifier Tank	NA	Herbicide Additive	26,000 gallons	97-A-756-S2

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. Additive cannot exceed 9,344,000 gallons per year in each storage tank.
2. The material stored in these tanks must have a true vapor pressure less than 15 kPa or 2.176 psia.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Records must be kept of the vapor pressure of all materials stored in each tank.
2. Records must be kept of tank throughput over a 12-month period, rolled monthly.

Authority for Requirement: DNR Construction Permits 97-A-755-S2, 97-A-756-S2

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 48

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): Natural Draft

Exhaust Temperature (°F): 122

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 97-A-755-S2, 97-A-756-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 344

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
344	EU-10-0753	10-0753 Herbicide Additive Tank	NA	Herbicide Additive	25,000 gallons	99-A-511-S1

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from each emission point shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. The owner or operator shall comply with all applicable existing source requirements of 40 CFR §63.2430 through 40 CFR §63.2550 (NESHAP Subpart FFFF).

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall comply with all reporting and maintenance requirements specified in 40 CFR §63.2470.

Authority for Requirement: DNR Construction Permits 99-A-511-S1
567 IAC 23.1(4)"cf"

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 43

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 12

Exhaust Temperature (°F): 110

Discharge Style: Downward

Authority for Requirement: DNR Construction Permits 99-A-511-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 345

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
345	EU-10-0758	#10 Emulsifier Tank	NA	Herbicide Additive	25,000 gallons	99-A-512

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from each emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 99-A-512
567 IAC 23.3(2)"d"

⁽¹⁾ If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 43

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (acfm): 7.4

Exhaust Temperature (°F): 122

Discharge Style: NA

Authority for Requirement: DNR Construction Permit 99-A-512

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 34, 24, 26, 42, 289

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
34	EU-10TK-3	Additive Tank	NA	Herbicide Additive	10,000 gallons	NA
24	EU-10-2014-113	#1 Blend Tank	NA	Herbicide Product & Premixes	20,000 gallons	NA
26	EU-10-2014-210	#2 Blend Tank	NA	Herbicide Product & Premixes	20,000 gallons	NA
42	EU-10TK-26	#3 Blend Tank	NA	Herbicide Product	20,000 gallons	NA
289	EU-10-581	#5 Blend Tank	NA	Herbicide Product	20,000 gallons	NA

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 139Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10D-1	#4 Blend Tank	NA	Herbicide Product	20,000 gallons	01-A-769-S1

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. The collective uncontrolled organic emissions from this emission unit (EU-10D-1) shall be less than 10,000 lbs/yr, as specified for *Group 2 Batch Process Vents*, in 40 CFR Part 63 Subpart FFFF, 63.2550.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall maintain records for all materials formulated and/or stored in this emission unit (EU-10D-1).
2. The owner or operator shall maintain a copy of the Material Safety Data Sheet (MSDS) for all materials formulated and/or stored in this emission unit (EU-10D-1).
3. The facility shall determine the group status for this emission unit (EU-10D-1), as specified in 40 CFR Part 63 Subpart FFFF, 63.2460(b).
4. The owner or operator shall maintain all applicable records to demonstrate this emission unit (EU-10D-1) is a *Group 2 Batch Process Vent*, as specified in 40 CFR Part 63 Subpart FFFF, 63.2525.
5. The facility shall meet all of the applicable notification, reporting, and recordkeeping requirements specified in 40 CFR Part 63 Subpart FFFF, 63.2515, 63.2520, and 63.2525.

Authority for Requirement: DNR Construction Permit 01-A-769-S1
567 IAC 23.1(4)"cf"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 40
- Stack Opening, (inches, dia.): 4
- Exhaust Flow Rate (scfm): Natural Draft
- Exhaust Temperature (°F): 120
- Discharge Style: Downward
- Authority for Requirement: DNR Construction Permit 01-A-769-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

- Agency Approved Operation & Maintenance Plan Required?** Yes No
- Facility Maintained Operation & Maintenance Plan Required?** Yes No
- Compliance Assurance Monitoring (CAM) Plan Required?** Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 260Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10TK-24	Small Blend Tank	NA	Herbicide Product	2,000 gallons	99-A-897-S1

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 2

Stack Opening, (inches, dia.): 3

Exhaust Flow Rate (scfm): 0.022

Exhaust Temperature (°F): 104

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 99-A-897-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 258, 248, 249, 250

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
258	EU-10-5039-453	#1 Product Storage Tank	NA	Herbicide Product	33,000 gallons	99-A-890-S1
248	EU-10-5025-461	#2 Product Storage Tank	NA	Herbicide Product	33,000 gallons	99-A-891-S1
249	EU-10-5025-466	#3 Product Storage Tank	NA	Herbicide Product	33,000 gallons	99-A-892-S1
250	EU-10-5025-471	#4 Product Storage Tank	NA	Herbicide Product	33,000 gallons	99-A-893-S1

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The total emissions from these emission points shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 14.0⁽¹⁾ ton/yr

Authority for Requirement: DNR Construction Permits 99-A-890-S1 through 99-A-893-S1

⁽¹⁾ This emission limit has been set as a bubble cap for all four of the product storage tanks (10-5039-453, 10-5025-461, 10-5025-466, and 10-5025-471).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. A record of all materials stored in each vessel shall be maintained. An MSDS shall be kept for all materials stored.
2. The amount of material put through each vessel over the previous month shall be recorded at the end of each month. The total amount of material put through each vessel over the previous twelve months shall also be recorded at the end of each month.
3. An estimate of the amount of VOC's emitted from each vessel over the previous month shall be recorded at the end of each month. The total amount of VOC's emitted from each vessel over the previous twelve month shall also be recorded at the end of each month.

Authority for Requirement: DNR Construction Permits 99-A-890-S1 through 99-A-893-S1

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 46

Stack Opening, (inches, dia.): 6

Exhaust Flow Rate (scfm): Natural Draft

Exhaust Temperature (°F): 122

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permits 99-A-890-S1 through 99-A-893-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 251Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10-5025-445	#5 Product Storage Tank	NA	Herbicide Product	45,000 gallons	99-A-889-S2

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. The maximum true vapor pressure of materials stored in #5 Product Storage tank shall not exceed 3.5 kPA.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Maintain a record of the maximum vapor pressure as of all materials stored in #5 Product Storage Tank in kPA.
2. Retain Material Safety Data Sheets (MSDS) of all materials stored in #5 Product Storage Tank.
3. The amount of material put through this vessel over the previous month shall be recorded at the end of each month. The total amount of material put through this vessel over the previous twelve months shall also be recorded at the end of each month.
4. An estimate of the amount of VOCs emitted from this vessel over the previous month shall be recorded at the end of each month. The total amount of VOCs emitted from this vessel over the previous twelve month shall also be recorded at the end of each month.

Authority for Requirement: DNR Construction Permit 99-A-889-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 43
- Stack Opening, (inches, dia.): 8
- Exhaust Flow Rate (scfm): Working/Breathing Loss
- Exhaust Temperature (°F): 86
- Discharge Style: Horizontal
- Authority for Requirement: DNR Construction Permit 99-A-889-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

- Agency Approved Operation & Maintenance Plan Required?** Yes No
- Facility Maintained Operation & Maintenance Plan Required?** Yes No
- Compliance Assurance Monitoring (CAM) Plan Required?** Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 290

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10-584	#6 Product Storage Tank	NA	Herbicide Product	65,000 gallons	NA

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 332

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10-662	#7 Product Storage Tank	NA	Herbicide Product	62,000 gallons	98-A-551

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. This tank shall only be used for the storage of Glyphosate products.

Authority for Requirement: DNR Construction Permit 98-A-551

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. A log of all materials stored in the tank.
2. After the first 12 months of operation, determine the annual throughput for the tank on a rolling 12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 98-A-551

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 62

Stack Opening, (inches, dia.): 6

Exhaust Flow Rate (scfm): 20

Exhaust Temperature (°F): 104

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 98-A-551

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 333, 334

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
333	EU-10-710	#8 Product Storage Tank	NA	Herbicide Product	80,000 gallons	98-A-623-S1
334	EU-10-711	#9 Product Storage Tank	NA	Herbicide Product	80,000 gallons	98-A-624-S1

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. Each 80,000 gallon storage vessel is limited to storing materials which have a vapor pressure not exceeding 0.14 psia.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator of the equipment shall maintain records of the VOC liquid stored and the maximum vapor pressure of the liquid.

Authority for Requirement: DNR Construction Permits 98-A-623-S1 and 98-A-624-S1

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35

Stack Opening, (inches, dia.): 4

Exhaust Flow Rate (scfm): Natural Draft

Exhaust Temperature (°F): 140

Discharge Style: Downward

Authority for Requirement: DNR Construction Permits 98-A-623-S1 and 98-A-624-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 369Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10-180	#10 Product Storage Tank	NA	Herbicide Product	45,000 gallons	02-A-220

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. This tank shall only store volatile organic liquids with a maximum true vapor pressure less than 3.5 kPa.
2. This tank shall not be used in any "pesticide active ingredient manufacturing process unit", as defined in 40 CFR 63.1361.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall keep records showing the maximum true vapor pressure of the materials stored in the vessel.

Authority for Requirement: DNR Construction Permit 02-A-220

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 54.3

Stack Opening, (inches, dia.): 6

Exhaust Flow Rate (scfm): Natural Draft

Exhaust Temperature (°F): 122

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 02-A-220

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 202

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
202	EU-10-3773-410	High Speed Jugline	NA	Herbicide Product	2,100 gal/hr	14-A-481

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall maintain records for all materials processed in this emission point.
2. The owner or operator shall maintain a copy of the Material Safety Data Sheet (MSDS) for all materials processed in this emission point.

Authority for Requirement: DNR Construction Permit 14-A-481

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 26

Stack Opening, (inches, dia.): 26

Exhaust Flow Rate (scfm): 11,700

Exhaust Temperature (°F): 110

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 14-A-481

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 137, 172, 173, 144, 145, 208

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
137	EU-10FN-22	Spent Product Filter Drying (Jugging)	NA	Herbicide Product	1 drum/day	NA
172	EU-10FN-2	#1 Drum Filling	NA	Herbicide Product	3,425 gal/hr	NA
173	EU-10FN-3-1	Spent Product Filter Drying (Drumming)	NA	Herbicide Product	1 drum/day	NA
	EU-10FN-3-2	Product Shuttle Filling	NA	Herbicide Product	2,083 gal/hr	
144	EU-8BL-1	#1 South Bulk Loading	NA	Glyphosate Product, Acetanilide Product	5,000 gal/hr, 4,201 gal/hr	NA
145	EU-8BL-2	#2 South Bulk Loading	NA	Herbicide Product	5,000 gal/hr	NA
208	EU-10BL-2	Bulk Truck Loading	NA	Glyphosate Product, Acetanilide Product, Waste Water	5,000 gal/hr, 2,283 gal/hr, 40 gal/hr	NA

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 207**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10BL-1	Bulk Rail Loading	NA	Herbicides	6,019 gal/hr	13-A-516-S1

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. This emission point (EP 207) is allowed to load herbicide products, technical (pure) herbicides, including MON1400 and herbicides containing 2,4-D Salts and Esters, and wastewater (diluted herbicide products).
2. The throughput of liquids that contain organic HAP with a rack-weighted average partial pressure, as defined in 40 CFR §63.111, greater than or equal to 1.5 pound per square inch absolute (psia) shall not exceed 0.65 million liters per year (l/yr).

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The permittee shall maintain a list of all materials that are loaded in this emission unit. For each material the following shall be identified:
 - a. Whether or not it contains an organic HAP, and
 - b. The partial pressure of each organic HAP containing material.
2. The permittee shall maintain monthly record of material throughput for all the materials loaded at this emission point (EP 207).
3. If materials loaded at this emission point (EP 207) contain organic HAP with partial pressures greater than or equal to 1.5 pound per square inch absolute (psia), then the following records shall be kept:
 - a. Monthly material throughput for all organic HAP containing materials,
 - b. Rolling 12- month totals for all organic HAP containing materials,
 - c. The rack-weighted average partial pressure (as defined in 40 CFR §63.111) for organic HAP containing materials for each month of operation. The yearly volume shall be based on the rolling twelve (12) month totals.

4. The permittee shall meet all the applicable requirements of notification reporting and recordkeeping as specified in 40 CFR §63.2515, §63.2520 and §63.2525.

Authority for Requirement: DNR Construction Permit 13-A-516-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 15

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): Displacement

Exhaust Temperature (°F): 95

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 13-A-516-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 329**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10BL-3	Bulk Truck Loading	NA	Herbicides	6,019 gal/hr	98-A-002-S2

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. This emission point (EP 329) is allowed to load herbicide products, premixes, and technical herbicides, including MON1400.
2. The throughput of monochlorobenzene (MCB) containing premixes and products shall not exceed 6,000,000 gallons per 12-month rolling period.
3. The throughput of liquids that contain organic HAP with a rack-weighted average partial pressure, as defined in 40 CFR §63.111, greater than or equal to 1.5 pound per square inch absolute (psia) shall not exceed 0.65 million liters per year (l/yr).

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The permittee shall maintain a list of all materials that are loaded in this emission unit. For each material the following shall be identified:
 - a. Whether or not it contains MCB,
 - b. Whether or not it contains an organic HAP, and
 - c. The partial pressure of each organic HAP containing material.
2. The permittee shall maintain monthly record of material throughput for MCB containing materials.
3. The permittee shall maintain monthly record of material throughput for all other materials.
4. The permittee shall maintain record of total material throughput for MCB containing materials on 12-month rolling basis.

5. If materials loaded at this emission point (EP 329) contain organic HAP with partial pressures greater than or equal to 1.5 pound per square inch absolute (psia), then the following records shall be kept:
 - a. Monthly material throughput for all organic HAP containing materials,
 - b. Rolling 12- month totals for all organic HAP containing materials,
 - c. The rack-weighted average partial pressure (as defined in 40 CFR §63.111) for organic HAP containing materials for each month of operation. The yearly volume shall be based on the rolling twelve (12) month totals.
6. The permittee shall meet all the applicable requirements of notification reporting and recordkeeping as specified in 40 CFR §63.2515, §63.2520 and §63.2525.

Authority for Requirement: DNR Construction Permit 98-A-002-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 12

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): Displacement

Exhaust Temperature (°F): 95

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 98-A-002-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 359**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10-0897	N.E. Rail Loading	NA	Herbicide Technical	8,394 gal/hr	01-A-559-S1

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. This emission point is allowed to load two technical herbicides, glyphosate and acetochlor.
2. The permittee shall keep rack-weighted average partial pressure below 1.5 psi for organic HAPs, as defined in 40 CFR §63.111, in order to maintain Group 2 transfer rack status.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The permittee shall maintain records for all materials processed in this emission point.
2. The permittee shall maintain a copy of the Material Safety Data Sheet (MSDS) for all materials processed in this emission point.
3. The permittee shall meet all the applicable requirements of notification reporting and recordkeeping as specified in 40 CFR §63.2515, §63.2520 and §63.2525.

Authority for Requirement: DNR Construction Permit 01-A-559-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 10

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 40

Exhaust Temperature (°F): 122

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 01-A-559-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 370

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10BL-4	Bulk Product Rail Loading	NA	Herbicide Product	6667 gal/hr	02-A-221

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): Natural Vent

Exhaust Temperature (°F): 122

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 02-A-221

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 241Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10TK-21	Wastewater Tank	NA	Herbicide Wastewater	20,000 gallons	99-A-896

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 29

Stack Opening, (inches, dia.): 6

Exhaust Flow Rate (scfm): 0.51

Exhaust Temperature (°F): 86

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 99-A-896

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 27, 28

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
27	EU-10FUG-3	Liquid Formulations Blending (Non-captured)	NA	Herbicide Products, Solvents, Emulsifiers	NA	NA
28	EU-10FUG-1	Liquid Formulations Packaging (Non-captured)	NA	Herbicide Products	NA	NA

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 407**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-10-1351	North D-Form Truck Loading	NA	Herbicides	5,800 gal/hr	15-A-026

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 15

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): 26

Exhaust Temperature (°F): 95

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 15-A-026

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 408

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
408	EU-10-1365	D-Form Jug Fill Surge Tank	NA	Herbicides	5,705 gal/hr	15-A-027-S1
	EU-10-1411	D-Form Jugline	NA	Herbicides	2,400 gal/hr	
	EU-10-1447	D-Form Shuttle Line	NA	Herbicides	2,210 gal/hr	

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30
Stack Opening, (inches, dia.): 8
Exhaust Flow Rate (scfm): 1,440
Exhaust Temperature (°F): 110
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 15-A-027-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Flowable Formulations Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
182	EU-14TK-33	Raw Material Storage Tank	99-A-513
346	EU-14TK-38	Raw Material Storage Tank	99-A-514
310	EU-14TK-356	PAPI Storage Tank	96-A-1263
347	EU-14-464	Isocyanate Storage Tank	99-A-515
361	EU-14-0828	Herbicide Additive Storage Tank	01-A-826
303	EU-14TK-26	Herbicide Additive/Product Storage Tank	NA
311	EU-14TK-300	PAPI Feed Tank	96-A-1264
326	EU-14TK-306	Isocyanate Feed Tank	97-A-860
272	EU-14TK-31	Residence Time Tank	93-A-138
187	EU-14TK-101	Product Storage Tank	96-A-267-S1
188	EU-14TK-102	Product Storage Tank	96-A-268-S1
211	EU-14TK-390	Product Storage Tank	96-A-265-S2
212	EU-14TK-391	Product Storage Tank	96-A-266-S2
216	EU-14TK-32	Premix Tank	86-A-019-S6
	EU-14TK-36	Formulation Tank	
	EU-14TK-751	Formulation Tank	
	EU-14-186	East Supersack Unloading	
	EU-14-187	West Supersack Unloading	
	EU-14-763	North Supersack Unloading	
	EU-14RV	Rotary Valves	
339	EU-14TK-13	West Stabilizer Tank	99-A-395-S1
	EU-14TK-21	East Stabilizer Tank	
186	EU-14BL-1	East Bulk Herbicide Loading	99-A-898
171	EU-14BL-2	West Bulk Herbicide Loading	99-A-899
363	EU-14BL-3	Bulk Truck Loading/Unloading	02-A-902
368	EU-14-875	Flowables Rail Spot 7	02-A-903-S1
389	EU-14-0899	Flowables Tail Spot 8	03-A-312-S2
395	EU-14-0975	Seed Corn Handling	06-A-1025-S2
159	EU-14-FUG-1	Flowables (Non-captured)	NA
409	EU-14-0887	Flowables Rail Spot 4	15-A-579

Emission Point ID Number: 182Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14TK-33	Raw Material Storage Tank	NA	Herbicide Additive	16,000 gallons	99-A-513

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 99-A-513
567 IAC 23.3(2)"d"

⁽¹⁾ If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 32

Stack Opening, (inches, dia.): 4

Exhaust Flow Rate (acfm): 6.7

Exhaust Temperature (°F): 122

Discharge Style: NA

Authority for Requirement: DNR Construction Permit 99-A-513

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 346Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14TK-38	Raw Material Storage Tank	NA	Herbicide Technical	38,000 gallons	99-A-514

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from each emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 99-A-514
567 IAC 23.3(2)"d"

⁽¹⁾ If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 53

Stack Opening, (inches, dia.): 4

Exhaust Flow Rate (acfm): 8.4

Exhaust Temperature (°F): 122

Discharge Style: NA

Authority for Requirement: DNR Construction Permit 99-A-514

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 310**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14TK-356	PAPI Storage Tank	NA	Polymeric Isocyanate	11,000 gallons	96-A-1263

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. A Material Safety Data Sheet (MSDS) for all chemicals stored in the tank.
2. After the first twelve (12) months of operation, determine the annual throughput of material on a rolling 12 month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 96-A-1263

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 28

Stack Opening, (inches, dia.): 4

Exhaust Flow Rate (scfm): 0.2

Exhaust Temperature (°F): 122

Discharge Style: Vertical w/ raincap

Authority for Requirement: DNR Construction Permit 96-A-1263

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 347

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14-464	Isocyanate Storage Tank	NA	Isocyanate Blend	12,000 gallons	99-A-515

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 99-A-515
567 IAC 23.3(2)"d"

⁽¹⁾ If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 28

Stack Opening, (inches, dia.): 4

Exhaust Flow Rate (acfm): 0.11

Exhaust Temperature (°F): Ambient

Discharge Style: NA

Authority for Requirement: DNR Construction Permit 99-A-515

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 361**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14-0828	Herbicide Additive Storage Tank	NA	Herbicide Additive	31,065 gallons	01-A-826

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. Organic components stored in this tank shall have a maximum vapor pressure of 0.1 psia total.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall keep records of the total vapor pressure of all organic components stored in this tank.

Authority for Requirement: DNR Construction Permit 01-A-826

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35

Stack Opening, (inches, dia.): 6

Exhaust Flow Rate (scfm): Natural Draft

Exhaust Temperature (°F): 85

Discharge Style: Downward

Authority for Requirement: DNR Construction Permit 01-A-826

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 303

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14TK-26	Herbicide Additive/ Product Storage Tank	NA	Herbicide Additive/ Herbicide Product	20,000 gallons	NA

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 311**Associated Equipment**

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14TK-300	PAPI Feed Tank	NA	Polymeric Isocyanate	400 gallons	96-A-1264

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. A Material Safety Data Sheet (MSDS) for all chemicals stored in the tank.
2. After the first twelve (12) months of operation, determine the annual throughput of material on a rolling 12 month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 96-A-1264

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20

Stack Opening, (inches, dia.): 3

Exhaust Flow Rate (scfm): 0.2

Exhaust Temperature (°F): 122

Discharge Style: Vertical w/ raincap

Authority for Requirement: DNR Construction Permit 96-A-1264

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 326

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14TK-306	Isocyanate Feed Tank	NA	Isocyanate Blend	500 gallons	97-A-860

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. A record of the throughput of this tank shall be recorded at the end of each month. This record should include the throughput of the last month and the total throughput of the previous twelve (12) months.

Authority for Requirement: DNR Construction Permit 97-A-860

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40

Stack Opening, (inches, dia.): 4

Exhaust Flow Rate (scfm): NA - Displacement

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 97-A-860

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 272

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14TK-31	Residence Time Tank	NA	Herbicide Formulation	1,200 gallons	93-A-138

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 187, 188, 211, 212

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
187	EU-14TK-101	Product Storage Tank	NA	Herbicide Product	50,000 gallons	96-A-267-S1
188	EU-14TK-102	Product Storage Tank	NA	Herbicide Product	50,000 gallons	96-A-268-S1
211	EU-14TK-390	Product Storage Tank	NA	Herbicide Product	20,000 gallons	96-A-265-S2
212	EU-14TK-391	Product Storage Tank	NA	Herbicide Product	20,000 gallons	96-A-266-S2

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. These tanks are limited to chemicals no more volatile than monochlorobenzene (MCB).
2. Throughput for these four tanks is limited to 30,000,000 gallons per twelve month rolling period, determined as the total volume of products formulated and stored in this group of tanks.

Authority for Requirement: DNR Construction Permits 96-A-267-S1, 96-A-268-S1,
96-A-265-S2, 96-A-266-S2

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Records shall be kept on all volatile organic liquids (VOL's) stored in these tanks and their maximum true vapor pressure.
2. The monthly throughput of these four tanks shall be recorded for each month of operation, determined as the total volume of products formulated and stored in the group of tanks.

3. The twelve month rolling total of the throughput of this group of tanks shall be updated and recorded monthly.

Authority for Requirement: DNR Construction Permits 96-A-267-S1, 96-A-268-S1, 96-A-265-S2, 96-A-266-S2

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

EP's 187 & 188

Stack Height, (ft, from the ground): 32

Stack Opening, (inches, dia.): 3

Exhaust Flow Rate (scfm): NA – Natural Draft

Exhaust Temperature (°F): 95

Discharge Style: NA

Authority for Requirement: DNR Construction Permits 96-A-267-S1 & 96-A-268-S1

EP's 211 & 212

Stack Height, (ft, from the ground): 27.5

Stack Opening, (inches, dia.): 6

Exhaust Flow Rate (scfm): NA – Natural Draft

Exhaust Temperature (°F): 95

Discharge Style: Downward

Authority for Requirement: DNR Construction Permits 96-A-265-S2 & 96-A-266-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 216

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14TK-32 ⁽¹⁾	Premix Tank	CE-14D-4: Atrazine Dust Collector	Solid Technical Herbicide/ Herbicide Formulations	4,600 gallons	86-A-019-S6
EU-14TK-36	Formulation Tank A		Solid Technical Herbicide/ Herbicide Formulations	1,200 gallons	
EU-14TK-751	Formulation Tank B		Solid Technical Herbicide/ Herbicide Formulations	1,200 gallons	
EU-14-186	East Supersack Unloading		Solid Technical Herbicide	4,000 lb/hr	
EU-14-187	West Supersack Unloading		Solid Technical Herbicide	4,000 lb/hr	
EU-14-763	North Supersack Unloading		Solid Technical Herbicide	4,000 lb/hr	
EU-14RV	Rotary Valves		Atrazine	0.07 lb/hr (each)	

⁽¹⁾ This emission unit may be vented through EP 321 during production of specific products. When this emission point is used, the emissions from this unit are considered to be an "insignificant activity" (as defined in 567 IAC 22.103).

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 86-A-019-S6

567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM_{2.5})
Emission Limit(s): 0.09 lb/hr
Authority for Requirement: DNR Construction Permit 86-A-019-S6

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 1.23 lb/hr
Authority for Requirement: DNR Construction Permit 86-A-019-S6

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.23 lb/hr, 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 86-A-019-S6
567 IAC 23.3(2)"a"

Pollutant: Volatile Organic Compounds (VOC's)
Emission Limit(s): 4.38 ton/yr⁽²⁾
Authority for Requirement: DNR Construction Permit 86-A-019-S6

⁽²⁾ Standard is a 12-month rolling total.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control equipment parameters:

1. The owner or operator shall inspect and maintain the control equipment according to manufacturer's recommendations.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 86-A-019-S6

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 29
Stack Opening, (inches, dia.): 20
Exhaust Flow Rate (scfm): 11,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical Obstructed
Authority for Requirement: DNR Construction Permit 86-A-019-S6

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring (CAM) Plan

Atrazine Dust Collector

EP 216

Baghouse Parameters

- Associated Emission Unit: EU-14TK-32, EU-14TK-36, EU-14TK-751, EU-14-186, EU-14-187, EU-14-763, EU-14RV
- Associated Control Equipment No: CE-14D-4
- Associated Emission Point: 216
- Pollutants Controlled: PM, PM₁₀, PM_{2.5}

Applicable Requirements

PM emission limit: 1.23 lb/hr

Authority for Requirement: DNR Permit No 86-A-019-S6

PM₁₀ emission limit: 1.23 lb/hr

Authority for Requirement: DNR Permit No 86-A-019-S6

PM_{2.5} emission limit: 0.09 lb/hr

Authority for Requirement: DNR Permit No 86-A-019-S6

Opacity limit: 40%

Authority for Requirement: 567 IAC 23.3(2)"d" and DNR Permit No 86-A-019-S6

Monitoring Approach

Excursion from Compliance Indicators

- An excursion occurs when an observed compliance indicator is outside of its defined acceptable indicator range for longer than five (5) minutes. An excursion does not necessarily indicate a violation of applicable permit terms, conditions, and/or requirements. However, an excursion is a deviation that must be reported in the Semi-Annual Monitoring Report and Annual Compliance Certification Report.
- Corrective actions will begin as soon as practicable, but no later than eight hours from the observation of the excursion or equipment will be shutdown.

Indicator

- Continuous differential pressure readings.
- No visible emission observations, as required below.

Compliance Indicator Ranges

- Differential Pressure
 - Acceptable indicator range: delta Pressure of 0.5" to 8" of water, except before and after startup and shutdown of equipment.
- No Visible Emissions
 - Only during non-operational periods of the continuous parameter monitoring system (CPMS).

Monitoring Methods

- Continuously
 - Differential pressure (dP) readings will be monitored continuously using a CPMS during the normal operation of the unit. During any shutdown of the CPMS, Monsanto will conduct a visible emission observation directly following the shutdown and continue weekly until CPMS is operational again.

- Semiannually
 - Inspect all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.
 - Check the cleaning sequence of the baghouse. Sequence inspection will consist of verifying that automated air pulsing is ongoing
 - Check the hopper functions and performance.

Performance Criteria

Data Representativeness

A differential pressure not within the acceptable indicator range may signify reduced baghouse performance, structural stress or failure, or a partially clogged system that may lead to an increase in particulate emissions.

An observation of visible emissions could indicate a decrease in the performance of the dust collector and potentially an increase in particulate emissions.

Record Keeping and Reporting (Verification of Operational Status)

- Monsanto will maintain records of the following:
 - Record of differential pressure.
 - Weekly visible emissions evaluations, if required, and any actions resulting from observation
 - Semiannual required inspections and maintenance.
 - Record any excursions and corrective actions resulting from compliance indicators and inspections and maintenance.
- Records will be kept for at least five years and be available upon request.

Quality Control

- The filter equipment will be maintained according to the manufacturer's recommendations.
- An adequate inventory of spare parts will be kept.

Data Collection Procedures

- Electronic or hard copy of differential pressure readings.
- Manual log entries are made based on the observation (or not) of visible emissions, if required.
- Maintenance personnel record all maintenance/inspections performed on the baghouse and actions resulting from the inspections.

Emission Point ID Number: 339

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14TK-13	West Stabilizer Tank	CE-14-0366: Dust Collector	Solid Herbicide Additive	545 gallons	99-A-395-S1
EU-14TK-21	East Stabilizer Tank		Solid Herbicide Additive	545 gallons	

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 99-A-395-S1
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 0.26 lb/hr

Authority for Requirement: DNR Construction Permit 99-A-395-S1

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 2.57 lb/hr

Authority for Requirement: DNR Construction Permit 99-A-395-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 2.57 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 99-A-395-S1
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 55
- Stack Opening, (inches, dia.): 16
- Exhaust Flow Rate (scfm): 3,000
- Exhaust Temperature (°F): 70
- Discharge Style: Horizontal
- Authority for Requirement: DNR Construction Permit 99-A-395-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

- Agency Approved Operation & Maintenance Plan Required?** Yes No
- Facility Maintained Operation & Maintenance Plan Required?** Yes No
- Compliance Assurance Monitoring (CAM) Plan Required?** Yes No

Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring (CAM) Plan

Stabilizer Tank Dust Collector

EP 339

Baghouse Parameters

- Associated Emission Unit: 14TK-13, 14TK-21
- Associated Control Equipment No: CE-14-0366
- Associated Emission Point: 339
- Pollutants Controlled: PM, PM₁₀, PM_{2.5}

Applicable Requirements

PM emission limit: 2.57 lb/hr

Authority for Requirement: DNR Permit No 99-A-395-S1

PM₁₀ emission limit: 2.57 lb/hr

Authority for Requirement: DNR Permit No 99-A-395-S1

PM_{2.5} emission limit: 0.26 lb/hr

PM emission limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a" and DNR Permit No 99-A-395-S1

Opacity limit: 40%

Authority for Requirement: 567 IAC 23.3(2)"d" and DNR Permit No 99-A-395-S1

Monitoring Approach

Excursion from Compliance Indicators

- An excursion occurs when an observed compliance indicator is outside of its defined acceptable indicator range for longer than five (5) minutes. An excursion does not necessarily indicate a violation of applicable permit terms, conditions, and/or requirements. However, an excursion is a deviation that must be reported in the Semi-Annual Monitoring Report and Annual Compliance Certification Report.
- Corrective actions will begin as soon as practicable, but no later than eight hours from the observation of the excursion or equipment will be shutdown.

Indicator

- Continuous differential pressure readings.
- No visible emission observations, as required below.

Compliance Indicator Ranges

- Differential Pressure
 - Acceptable indicator range: delta Pressure of 0.25" to 8" of water, except before and after startup and shutdown of equipment.
- No Visible Emissions
 - Only during non-operational periods of the continuous parameter monitoring system (CPMS).

Monitoring Methods

- Continuously
 - Differential pressure (dP) readings will be monitored continuously using a CPMS during the normal operation of the unit. During any shutdown of the CPMS, Monsanto will conduct a

visible emission observation directly following the shutdown and continue weekly until CPMS is operational again.

- Semiannually
 - Inspect all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.
 - Check the cleaning sequence of the baghouse. Sequence inspection will consist of verifying that automated air pulsing is ongoing
 - Check the hopper functions and performance.

Performance Criteria

Data Representativeness

A differential pressure not within the acceptable indicator range may signify reduced baghouse performance, structural stress or failure, or a partially clogged system that may lead to an increase in particulate emissions.

An observation of visible emissions could indicate a decrease in the performance of the dust collector and potentially an increase in particulate emissions.

Record Keeping and Reporting (Verification of Operational Status)

- Monsanto will maintain records of the following:
 - Record of differential pressure.
 - Weekly visible emissions evaluations, if required, and any actions resulting from observation
 - Semiannual required inspections and maintenance.
 - Record any excursions and corrective actions resulting from compliance indicators and inspections and maintenance.
- Records will be kept for at least five years and be available upon request.

Quality Control

- The filter equipment will be maintained according to the manufacturer's recommendations.
- An adequate inventory of spare parts will be kept.

Data Collection Procedures

- Electronic or hard copy of differential pressure readings.
- Manual log entries are made based on the observation (or not) of visible emissions, if required.
- Maintenance personnel record all maintenance/inspections performed on the baghouse and actions resulting from the inspections.

Emission Point ID Numbers: 186, 171

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
186	EU-14BL-1	East Bulk Herbicide Loading	NA	Herbicide Product	3417 gal/hr	99-A-898
171	EU-14BL-2	West Bulk Herbicide Loading	NA	Herbicide Product	3417 gal/hr	99-A-899

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 12

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): 3.1

Exhaust Temperature (°F): 77

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 99-A-898 & 99-A-899

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

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04-TV-006R2, 06/15/2016
Monsanto Company - Muscatine 92-6908

Emission Point ID Number: 363Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14BL-3	Bulk Truck Loading/Unloading	NA	Herbicide Product	5,000 gallons/hr	02-A-902

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-902
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 02-A-902
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 10

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 10 (when filling)

Exhaust Temperature (°F): 113

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 02-A-902

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 368Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14-875	Flowables Rail Spot 7	NA	Herbicide Product	4,668 gallons/hr	02-A-903-S1

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. This emission point is allowed to be used for rail car loading and unloading of herbicide products, wastewater, and raw materials.
2. The permittee shall keep rack-weighted average partial pressure below 1.5 psi for organic HAPs, as defined in 40 CFR §63.111, in order to maintain Group 2 transfer rack status.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The permittee shall maintain records for all materials processed in this emission point.
2. The permittee shall maintain a copy of the Material Safety Data Sheet (MSDS) for all materials processed in this emission point.
3. The permittee shall meet all the applicable requirements of notification reporting and recordkeeping as specified in 40 CFR §63.2515, §63.2520 and §63.2525.

Authority for Requirement: DNR Construction Permit 02-A-903-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 7
Exhaust Temperature (°F): 113
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 02-A-903-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 389Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14-0899	Flowables Rail Spot 8	NA	Herbicide Product	4,668 gallons/hr	03-A-312-S2

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for this emission point at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. This emission unit (EU-14-0899) is allowed to be used for rail car loading and unloading of herbicide products, wastewater, and raw materials.
2. The owner or operator shall keep rack-weighted average partial pressure below 1.5 psi for organic HAPs, as defined in 40 CFR §63.111, in order to maintain Group 2 transfer rack status.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall maintain records for all materials processed in this emission unit (EU-14-0899).
2. The owner or operator shall maintain a copy of the Material Safety Data Sheet (MSDS) for all materials processed in this emission unit (EU-14-0899).
3. The owner or operator shall meet all applicable requirements of reporting and recordkeeping as specified in 40 CFR §63.2515, §63.2520, and §63.2525.

Authority for Requirement: DNR Construction Permit 03-A-312-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 7
Exhaust Temperature (°F): 110
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-312-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 395Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14-0975	Seed Corn Handling	CE-14-0975: Dust Collector	Seed Corn	36 tons/hr	06-A-1025-S2

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-1025-S2
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of (No Visible Emissions) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 0.014 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1025-S2

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.18 lb/hr

Authority for Requirement: DNR Construction Permit 06-A-1025-S2

Pollutant: Particulate Matter

Emission Limit(s): 0.18 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-1025-S2
567 IAC 23.3(2)"a"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 12

Stack Opening, (inches): 10.5 x 21

Exhaust Flow Rate (scfm): 2,100

Exhaust Temperature (°F): 70

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 06-A-1025-S2

The following equipment is associated with this emission point:

Equipment	Capacity
De-Bagger	36 tons/hr
Screw Conveyor	1,500 bushels/hr
Elevator	2,500 bushels/hr
Storage Bin	5,000 bushels
Bag Conveyor	20 bags/minute
Bag Baler	20 bags/minute
Seed Pack Unloading Hopper	36 tons/hr

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring (CAM) Plan

Seed Corn Dust Collector

EP 395

Baghouse Parameters

- Associated Emission Unit: EU-14-0975
- Associated Control Equipment No: CE-14-0975
- Associated Emission Point: 395
- Pollutants Controlled: PM, PM₁₀, PM_{2.5}

Applicable Requirements

PM emission limit: 0.1 gr/dscf, 0.18 lb/hr

Authority for Requirement: 567 IAC 23.3(2)"a" and DNR Permit No 06-A-1025-S2

PM₁₀ emission limit: 0.18 lb/hr

Authority for Requirement: DNR Permit No 06-A-1025-S2

PM_{2.5} emission limit: 0.014 lb/hr

Authority for Requirement: DNR Permit No 06-A-1025-S2

Opacity limit: 40%

Authority for Requirement: 567 IAC 23.3(2)"d" and DNR Permit No 06-A-1025-S2

Monitoring Approach

Excursion from Compliance Indicators

- An excursion occurs when an observed compliance indicator is outside of its defined acceptable indicator range for longer than five (5) minutes. An excursion does not necessarily indicate a violation of applicable permit terms, conditions, and/or requirements. However, an excursion is a deviation that must be reported in the Semi-Annual Monitoring Report and Annual Compliance Certification Report.
- Corrective actions will begin as soon as practicable, but no later than eight hours from the observation of the excursion or equipment will be shutdown.

Indicator

- Continuous differential pressure readings.
- No visible emission observations, as required below.

Compliance Indicator Ranges

- Differential Pressure
 - Acceptable indicator range: delta Pressure of 0.3" to 5" of water, except before and after startup and shutdown of equipment.
- No Visible Emissions
 - Only during non-operational periods of the continuous parameter monitoring system (CPMS).

Monitoring Methods

- Continuously
 - Differential pressure (dP) readings will be monitored continuously using a CPMS during the normal operation of the unit. During any shutdown of the CPMS, Monsanto will conduct a visible emission observation directly following the shutdown and continue weekly until CPMS is operational again.

- Semiannually
 - Inspect all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.
 - Check the cleaning sequence of the baghouse. Sequence inspection will consist of verifying that automated air pulsing is ongoing
 - Check the hopper functions and performance.

Performance Criteria

Data Representativeness

A differential pressure not within the acceptable indicator range may signify reduced baghouse performance, structural stress or failure, or a partially clogged system that may lead to an increase in particulate emissions.

An observation of visible emissions could indicate a decrease in the performance of the dust collector and potentially an increase in particulate emissions.

Record Keeping and Reporting (Verification of Operational Status)

- Monsanto will maintain records of the following:
 - Record of differential pressure.
 - Weekly visible emissions evaluations, if required, and any actions resulting from observation
 - Semiannual required inspections and maintenance.
 - Record any excursions and corrective actions resulting from compliance indicators and inspections and maintenance.
- Records will be kept for at least five years and be available upon request.

Quality Control

- The filter equipment will be maintained according to the manufacturer's recommendations.
- An adequate inventory of spare parts will be kept.

Data Collection Procedures

- Electronic or hard copy of differential pressure readings.
- Manual log entries are made based on the observation (or not) of visible emissions, if required.
- Maintenance personnel record all maintenance/inspections performed on the baghouse and actions resulting from the inspections.

Emission Point ID Number: 159

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14-FUG-1	Flowables (Non-captured)	NA	Solid Herbicide Technical/ Herbicide Additives	NA	NA

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 409Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU-14-0887	Flowables Rail Spot 4	NA	Rinsate, Herbicides	250 gal/hr	15-A-579

Applicable Requirements**Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

There are no applicable emission limits for these emission points at this time.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

1. The owner or operator shall not load more than 0.65 million liters per rolling 12-month period of liquids that contain organic HAP with a rack-weighted average partial pressures, as defined in §63.111, greater than or equal to 1.5 pound per square inch absolute.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall maintain a copy of the Safety Data Sheet (SDS) for each material used in the emission units associated with Emission Point EP-409.
2. The permittee shall maintain a list of all materials that are loaded in this emission unit. For each material the following shall be identified:
 - Whether or not it contains an organic HAP, and
 - The partial pressure of each organic HAP containing material.
3. The permittee shall maintain monthly record of material throughput for all other materials.

4. If materials loaded at this emission point (EP 409) contain organic HAP with partial pressures greater than or equal to 1.5 pound per square inch absolute (psia), then the following records shall be kept:
 - Monthly material throughput for all organic HAP containing materials,
 - Rolling 12- month totals for all organic HAP containing materials,
 - The rack-weighted average partial pressure (as defined in 40 CFR §63.111) for organic HAP containing materials for each month of operation. The yearly volume shall be based on the rolling twelve (12) month totals.
5. The owner or operator shall meet all applicable requirements of reporting and recordkeeping as specified in 40 CFR §63.2515, §63.2520, and §63.2525.

Authority for Requirement: DNR Construction Permit 15-A-579

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 23

Exhaust Temperature (°F): 113

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 15-A-579

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 22.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
 - a. The date, place and time of sampling or measurements
 - b. The date the analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses; and
 - f. The operating conditions as existing at the time of sampling or measurement.
 - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
 - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
 - b. Maintain a log at the permitted facility of the scenario under which it is operating.
 - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
 - a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
 - b. Compliance test methods specified in 567 Chapter 25; or
 - c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a. Any monitoring or testing methods provided in these rules; or
 - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department

within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of

performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
 - e. The changes comply with all applicable requirements.
 - f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.*567 IAC 22.110(1)*
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that does any of the following:

i. Correct typographical errors

ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;

iii. Require more frequent monitoring or reporting by the permittee; or

iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Title V Permit Modification.

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

i. Do not violate any applicable requirement;

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;

iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
 - ii. The permittee's suggested draft permit;
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
- c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.111-567 IAC 22.113*

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. *567 IAC 22.1(1)*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations (*567 IAC 23.1(3)"a"*); training fires and controlled burning of a demolished building (*567 IAC 23.2*).

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedances of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
 - b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
 - c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
 - d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air

conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the

permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

a. Such applicable requirements are included and are specifically identified in the permit; or

b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of *567 IAC 22.111(1)*. *567 IAC 22.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9545

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 725-9500

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1

909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2

2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 3

1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 4

1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 5

7900 Hickman Road, Suite #200
Windsor Heights, IA 50324
(515) 725-0268

Field Office 6

1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

Polk County Public Works Dept.

Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

Linn County Public Health

Air Quality Branch
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

Appendix A – Reference Web Link

NESHAP Subpart FFFF – Miscellaneous Organic Chemical Manufacturing

- <http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&SID=69978ff0bc211bc2562f18e71b0a1ca2&mc=true&r=PART&n=pt40.13.63#sp40.13.63.ffff>