

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

Name of Permitted Facility: Ingredion Incorporated

Facility Location: 1001 First Street SW

Cedar Rapids, IA 52404

Air Quality Operating Permit Number: 04-TV-001R2

Expiration Date: December 31, 2022

Permit Renewal Application Deadline: June 30, 2022

EIQ Number: 92-9185

Facility File Number: 57-01-025

Responsible Official

Name: Roxanne Simon

Title: Plant Manager

Mailing Address: 1001 First Street SW, Cedar Rapids, IA 52404

Phone #: (319) 398-3700

Permit Contact Person for the Facility

Name: Liane Kroemer

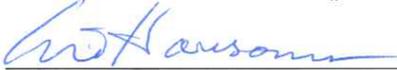
Title: Environmental Lead

Mailing Address: 1001 First Street SW, Cedar Rapids, IA 52404

Phone #: (319) 398-3700

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

1/01/18

Date

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Abbreviations

AA	acetic anhydride
acfm	actual cubic feet per minute
ATI	authorization to install
BH	baghouse
BPD	bushels per day
BV	bin vent
Cl	chlorine
CFR	Code of Federal Regulation
CE	control equipment
CEM	continuous emission monitor
CYC	cyclone
°F	degrees Fahrenheit
D	downward
DC	dust collector
EIQ	emissions inventory questionnaire
EP	emission point
EU	emission unit
EO	ethylene oxide
FR	filter receiver
gpm	gallons per minute
gr./dscf	grains per dry standard cubic foot
H	horizontal
HCl	hydrochloric acid
IAC	Iowa Administrative Code
IDNR	Iowa Department of Natural Resources
LCPH	Linn County Public Health
LCO	Linn County Ordinance
MMBtu	million British thermal units
MMcf	million cubic feet
MVAC	motor vehicle air conditioner
NESHAP	national emission standards for hazardous air pollutants
NAICS	North American Industry Classification System
NSPS	new source performance standard
ppmv	parts per million by volume
PD	passive displacement
PTO	permit to operate
PSD	prevention of significant deterioration
PO	propylene oxide
lb./hr	pounds per hour
lb./MMBtu	pounds per million British thermal units
SR	scalping reel
scfm	standard cubic feet per minute
SIC	Standard Industrial Classification
SCP	starch copolymer
SCR	scrubber
SBS	sodium bisulfite
TPH	tons per hour
TPY	tons per year
USEPA	United States Environmental Protection Agency
V	vertical, unobstructed
VE	visible emissions

Pollutants

PMparticulate matter
PM₁₀.....particulate matter ten microns and less in diameter
PM_{2.5}.....particulate matter two point five microns and less in diameter
SO₂.....sulfur dioxide
NO_x.....nitrogen oxides
VOC.....volatile organic compound
COcarbon monoxide
HAPhazardous air pollutant
SHAP.....single hazardous air pollutant
THAP.....total hazardous air pollutants

I. Facility Description and Equipment List

Facility Name: Ingredion Incorporated

Permit Number: 04-TV-001R2

Facility Description: Wet Corn Milling (NAICS 311221; SIC 2046)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	Construction Permit Number(s) (ATI/PTO)
1	56S01	Storage Bin #1	1971 / 2039-R2
2	56S02	Storage Bin #2	1970 / 2040-R2
3	56S03	Storage Bin #3	1969 / 2071-R2
4	56S04	Storage Bin #4	1968 / 2041-R2
5	56S05	Storage Bin #5	1967 / 2042-R2
6	56S06	Storage Bin #6	1966 / 2043-R2
7	56S07	Storage Bin #7	1965 / 2044-R2
8	56S08	Storage Bin #8	1964 / 2045-R2
9	56S09	Storage Bin #9	1963 / 2046-R2
10	56S10	Storage Bin #10	1962 / 2047-R2
11	61W21	Pneumatic System – Dryer #1 Mixers to Scalping Reel	5291 / 5266-R1
12	61Z22	Scalping Reel – Dryer #1	5292 / 5267-R1
13	61W16	Vacuum System – Bldg 61	5293 / 5268-R1
14	56FN535001	Starch Conveyors	6526 / 6472-R1
15	61D11	Dryer #1	3283 / 3983-R4
18	61W31	Pneumatic System – Bins to Blender/Loadout #1	5294 / 5269-R1
19	61Z32	Blender #1	5295 / 5270-R1
20	61K39	Bulk Loadout #1	5296 / 5271-R1
21	61W34	Pneumatic System – Blender to Storage Bins	5297 / 5272-R1
23	61D73	Starch Flash Dryer #2	2338 / 3209-R3
	61H73	Starch Flash Dryer #2 Burner	DNR PSD 03-A-095-P2
25	61W80	Pneumatic System – Loadout #3	2551 / 2857-R2
26	61K119	Bulk Loadout #3	2550 / 2858-R2
30	61D99-HEAT	Dryer #3 – Heating Zone – North	2559 / 3984-R4
31	61W105	Pneumatic System – Dryer #3 Mixers to Scalping Reel	2558 / 2850-R2
32	61Z105	Scalping Reel – Dryer #3	2557 / 2851-R2
33	56S11	Storage Bin #11	2556 / 2852-R2
34	56S12	Storage Bin #12	2555 / 2853-R2
35	56S13	Storage Bin #13	2554 / 2854-R2
36	56S14	Storage Bin #14	2553 / 2855-R2
37	61M125	Supersacker Packaging	2552 / 2856-R2
38	61W115	Pneumatic System – Loadout #2	2337 / 2818-R4 DNR PSD 03-A-099-P1
39	61K40	Bulk Loadout #2	2334 / 2819-R4 DNR PSD 03-A-100-P1
42	61D99-COOL	Dryer #3 – Cooling Zone – South	2674 / 3985-R3
56	61W27	Pneumatic System – Bins to Packing	5561 / 5509-R1

Emission Point Number	Emission Unit Number	Emission Unit Description	Construction Permit Number(s) (ATI/PTO)
57	57PK546001-2	Starch Packaging	6079 / 5786-R1
58	57BL545501	Pneumatic System – Bins to Packing	6058 / 5880-R1
59	57PK545501	Supersacker	6059 / 5881-R2
60	57BN526001	Surge Bin	6502 / 6306-R1
61	56BL526001	Bulk Loadout	6503 / 6307-R2
89	BLDG03-05-FUGSO2	Fugitive - Bldg 03 - 05	--
90	BLDG16-FUGPM	Fugitive - Bldg 16	--
91	BLDG61-FUGPM	Fugitive - Bldg 61	--
92	BLDG69-FUGPM	Fugitive - Bldg 69	--
94	BUBBLE-VOC-GR	Facility VOC/HAP Bubble - Grind	6083 / 5923-R5
	BUBBLE-VOC-ST	Facility VOC/HAP Bubble - Starch	
95	95-FUGITIVE	Ethanol Fugitives	5991 / 5678-R1
105	13PU095201	Fire Pump	5567 / 5468-R1
106	14TK140001-701	Main Fermentation Vent	5255 / 5959-R2
108	15TK160001	Stillage Tank	5264 / 5516-R1
109	15DISTILLATION	Distillation Vent	5875 / 5671-R1
110	15PU160102	Vacuum Pump – Stillage Evaporator	5257 / 5517-R1
112	17TK210101	Storage Tank – Off-Spec Ethanol	5258 / 5518-R1
114	17TK210201	Storage Tank – Anhydrous Ethanol	5259 / 5519-R1
115	17TK210401	Storage Tank – Denaturant	5353 / 5511-R1
117	17FL211501	Flare	6275 / 6076-R2
	17PU210601	Railcar Loading	
	95PU210801	Truck Loading	
	95PRESSURETEST	Railcar Pressure Test	
118	13CT400001	Cooling Tower – Bldg 13	5262 / 5947-R1
119	25CT400101	Cooling Tower – Bldg 25	5263 / 5948-R1
121	85S01	Soda Ash Storage Bin	2233 / 2813-R2
122	25-VACUUMPUMPS	Vacuum Pumps	5992 / 5938-R1
123	95TK210501	Storage Tank – Denatured Product	5355 / 5512-R1
124	95TK210601	Storage Tank – Denatured Product	5356 / 5513-R1
206	16BL71601	Vacuum System – Bldg 16	5872 / 5646-R1
207	16-CONVEY&LOAD	House Dust Collector – Convey/Load/Transfer	5873 / 5647-R1
241	04-STEEPS&MILL	Steep & Surge Tanks & Millhouse Tanks	6098 / 5919-R1
251	05-GLUTF&VETP	Gluten Filters & Vetter Presses	6086 / 5924-R1
255	05BL53001	Pneumatic System – Gluten Meal Recycle	5269 / 5935-R1
260	05DR042006	Germ Rotary Tube Dryer #6	6281 / 6147-R2
261	05DR42004	Germ Rotary Tube Dryer #4 – Cooling Section	6087 / 5925-R2
262	05DR42003	Germ Rotary Tube Dryer #3	6088 / 5926-R2
263	05DR42002	Germ Rotary Tube Dryer #2	6089 / 5927-R2
264	05DR42001	Germ Rotary Tube Dryer #1	6090 / 5928-R2
265	05DR42005	Germ Predryer	6091 / 5929-R2
	05MS42001	Germ Predryer Burner	DNR PSD 03-A-097-P1
271	05VP52701	Vacuum Pump - #6 Gluten Filter	5073 / 5936-R3
275	70DR54001	Gluten Meal Dryer	6092 / 5930-R2
	70MS54001	Gluten Meal Dryer Burner	DNR PSD 03-A-098-P1
279	05-PROCESS-TKS	Bldg 05 Process Tanks	6601 / 6439-R1
285	58-CORNCONVEY	Corn Unloading & Handling	6094 / 5932-R2
290	08TANKS	Starch Slurry Tanks – Bldg 8	6442 / 6214-R1
294	58W22	Vacuum System – Bldg 58/59	6096 / 5934-R1

Emission Point Number	Emission Unit Number	Emission Unit Description	Construction Permit Number(s) (ATI/PTO)
325	25BD171601 25TK171601	Starch Reslurry – Bldg 25	6312 / 6101-R1
400 (273)	70BH54003	Gluten Blower DC	6817 / 6584
400 (415)	69S13	A Bin	
400 (416)	69S14	B Bin	
400 (417)	69S15	C Bin	
400 (422)	69BN490201	Storage Bin #2	
400 (424)	69BN490401	Storage Bin #4	
400 (426)	69BN490601	Storage Bin #6	
400 (428)	69BN490801	Storage Bin #8	
400 (574)	69TK099301	Sodium Sulfate Mix Tank	
400 (750)	67TANKS	Starch Reslurry – Bldg 67A	
403	69Z02	Blender #2	5305 / 5281-R1
404	69Z482501	Blender #1	4356 / 4451-R2
407	69-LOADOUTMID	Bulk Loadout – Middle	5307 / 5283-R1
409	69W11	Pneumatic System – Dryer #11	5308 / 5284-R1
413	69W02	Pneumatic System – Blender #2 & Finish Bins	5309 / 5285-R1
414	69Z11	Scalping Reel – Dryer #11	5310 / 5286-R1
421	69BN490101	Storage Bin #1	3995 / 3995-R2
423	69BN490301	Storage Bin #3	3996 / 3996-R2
425	69BN490501	Storage Bin #5	3997 / 3997-R2
427	69BN490701	Storage Bin #7	3998 / 3998-R2
429	69BN490901	Storage Bin #9	3999 / 3999-R2
430	69BN491001	Storage Bin #10	4000 / 4000-R2
431	69BN491101	Storage Bin #11	4001 / 4001-R2
446	69D11	Dryer #11	-- / 1852-R2
457	69D12	Dryer #12	3285 / 3989-R3
460	69W22	Vacuum System – Bldg 69	3286 / 3990-R2
461	69Z12	Scalping Reel – Dryer #12	5311 / 5287-R1
463	69W12	Pneumatic System – Dryer #12 to Scalping Reel	5312 / 5288-R1
464	69W05	Pneumatic System – ABC Storage Bins to Bldg 69	5313 / 5289-R1
465	69W16	Pneumatic System – ABC Bins to Bulk Loadout	5314 / 5290-R1
466	69W12A	Pneumatic System – Dryer #12 SR to Bins/Loadout	5315 / 5291-R1
467	69-LOADOUTEAST	Bulk Loadout – East	5316 / 5292-R1
468	69-LOADOUTWEST	Bulk Loadout – West	5317 / 5293-R1
469	69W01	Pneumatic System – Blender #1 & Finish Bins	5318 / 5294-R1
472	69K17A-B	Bulk Loadout Conveyor - North	1424 / 1281-R2
473	69K18A-B	Bulk Loadout Conveyor - South	1425 / 1280-R2
474	EU_TRANSLOAD	Starch Transload	6846 / 6585
476	77TK440801	Bldg 96 Treating Tank 8	6980 / 6760
477	69T19-39	Treating Tanks – Bldg 69	-- / 1851-R2
478	77TANKS	Tanks – Bldg 77 & Bldg 96	6848 / 6623
480	97-REACTORS-EO 97-REACTORS-PO	EO Reactors PO Reactors	6837 / 6586-R1
481	68T51-52 68T25	Treating Tanks – Bldg 68 SBS Tank	6162 / 5950-R2
521	65BO201001	Boiler #1	5547 / 5399-R1

Emission Point Number	Emission Unit Number	Emission Unit Description	Construction Permit Number(s) (ATI/PTO)
522	65BO202001	Boiler #2	5548 / 5400-R1
573	69BN099301	Sodium Sulfate Storage Silo	6818 / 6651
575	93-UNLOADSALT1	Salt Tank #1	3218 / 3203-R2
576	93-UNLOADSALT2	Salt Tank #2	3216 / 3204-R2
577	93-UNLOADSALT3	Salt Tank #3	3215 / 3205-R2
582	94-UNLOADAA	AA Unload and Storage Tank	5701 / 5508-R1
	94-UNLOADHCL	HCl Unload and Storage Tanks	
	95T097201	AdA Unload and Storage Tank	
685	95T100B	Reslurry Tank	6174 / 5958-R2
752	67-R&D	R&D Scrubber	6756 / 6587

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU047	Dryers No. 1 - 2 Vacuum Pump
EU048	Dryers No. 1 - 2 Vacuum Pump
EU049	Dryer No. 3 Vacuum Pump
EU050	Dryers No. 1 – 2 Vacuum Pump
EU070	Evaporator Vacuum Pump
EU088	Fugitive – Bldg 16
EU100	Treatment Chemical Storage
EU134	Furnaces (natural gas)
EU181	N. Equalization Tank
EU188	Wastewater Flume
EU231	Dust Vent on Top of Silo
EU232	Dust Vent on Top of Silo
EU233	Dust Vent on Top of Silo
EU234	Dust Vent on Top of Silo
EU235	Dust Vent on Top of Silo
EU236	Dust Vent on Top of Silo
EU237	Dust Vent on Top of Silo
EU238	Dust Vent on Top of Silo
EU239	Dust Vent on Top of Silo
EU240	Dust Vent on Top of Silo
EU266	No. 1 Gluten Filter Vacuum Pump
EU267	No. 2 Gluten Filter Vacuum Pump
EU268	No. 3 Gluten Filter Vacuum Pump
EU269	No. 4 Gluten Filter Vacuum Pump
EU270	No. 5 Gluten Filter Vacuum Pump
EU323	Vacuum Pump – B25
EU329	HCl Tank Vent
EU333	Saccharification Tanks
EU373	Bubble VOC, Sugar
EU433	No. 9 Vacuum Pump
EU434	No. 10 Vacuum Pump
EU435	No. 11 Vacuum Pump
EU436	No. 12 Vacuum Pumps
EU583	Fugitive EO and PO Emissions
EU584	Fugitive Chlorine Emissions
EU587	Fugitive SCP Loadout
EU588	Fuel Oil Storage Tanks
EU620	Starch Slurry
EU623	Vacuum Pump Discharge

II. Plant-Wide Conditions

Facility Name: Ingredion Incorporated

Permit Number: 04-TV-001R2

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

Permit Duration

The term of this permit is: less than five years

Commencing on: January 1, 2018

Ending on: December 31, 2022

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.

Plant-Wide Emission Limits

The atmospheric emissions from the plant as a whole shall not exceed the following:

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 244 tpy

Authority for Requirement: LCPH ATI 6083 / PTO 5923-R5

Pollutant: Single Hazardous Air Pollutant (HAP)

Emission Limit(s): 9.4 tpy

Authority for Requirement: LCPH ATI 6083 / PTO 5923-R5

Pollutant: Combined Hazardous Air Pollutants (HAPs)

Emission Limit(s): 24.4 tpy

Authority for Requirement: LCPH ATI 6083 / PTO 5923-R5

Plant-Wide Record Keeping:

Unless specified by a federal regulation, all records as required shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- When the VOC emission rate (facility-wide) reaches 224 tons based on a 12-month rolling total, the facility will be required to track and record VOC emissions on a **daily** basis to ensure compliance with the requested minor limits. This is to occur each time the facility reaches this emissions level. Once the emissions fall below 224 tons, the facility can return to monitoring VOC emissions and record on a monthly basis.
- When a single HAP emission rate (facility-wide) reaches 8.46 tons based on a 12-month rolling total, the facility will be required to track and record HAP emissions on a **daily** basis to ensure compliance with the requested minor limits. This is to occur each time the facility reaches this emissions level. Once the emissions fall below 8.46 tons, the facility can return to monitoring single HAP emissions and record on a monthly basis.
- When the combination HAP emission rate (facility-wide) reaches 21.96 tons based on a 12-month rolling total, the facility will be required to track and record HAP emissions on a **daily** basis to ensure compliance with the requested minor limits. This is to occur each time the facility reaches this emissions level. Once the emissions fall below 21.96 tons, the facility can return to monitoring the combined HAP emissions and record on a monthly basis.

Authority for Requirement: LCPH ATI 6083 / PTO 5923-R5

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): 20% opacity
Authority for Requirement: LCO 10.7

Sulfur Dioxide (SO₂): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

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"

Particulate Matter:

No person shall permit, cause, suffer or allow the emission of particulate matter into the atmosphere in any one hour from any emission point from any process equipment at a rate in excess of that specified in Table I for the process weight rate allocated to such emission point. The emission standards in LCO 10.9 (1)"a" shall apply and those specified in LCO 10.8 and 10.9 and Table I shall not apply to each process of the types listed in those sections, with the following exception: whenever the compliance status, history of operations, ambient air quality in the vicinity, or the type of control equipment utilized, would warrant maximum control, the Air Pollution Control Officer may enforce 0.1 grain per standard cubic foot of exhaust gas, or Table I of this section, whichever would result in the lowest allowable emission rate.

Authority for Requirement: LCO 10.9(1)

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, fertilizers 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"
LCO 10.13

Regulatory Authority

This facility is located in Linn County, Iowa. Linn County Public Health Department, under agreement with the Iowa Department of Natural Resources (IDNR), is the primary regulatory agency in Linn County. This Title V permit is issued by the Iowa Department of Natural Resources, however, required contacts and information submittals referred to in this permit as required by "the Department" should continue to be directed to the Linn County Public Health Department office. This will include such items as stack test notification, stack test results submittal, oral and written excess emission reports, and reports and records required in the Linn County construction permits. Information specifically required by the Title V permit such as the annual EIQ and fees, annual compliance certification, semi-annual monitoring report and any Title V forms submitted for updates, modifications, renewals, etc. must be submitted to the Iowa DNR.

Authority for Requirement: 567 IAC 22.108

III. Emission Point-Specific Conditions

Facility Name: Ingredion Incorporated

Permit Number: 04-TV-001R2

Emission Point ID Number: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
1	56S01	Storage Bin #1	Starch	25 tph	56Y01	BH-BV
2	56S02	Storage Bin #2		25 tph	56Y02	BH-BV
3	56S03	Storage Bin #3		25 tph	56Y03	BH-BV
4	56S04	Storage Bin #4		25 tph	56Y04	BH-BV
5	56S05	Storage Bin #5		25 tph	56Y05	BH-BV
6	56S06	Storage Bin #6		25 tph	56Y06	BH-BV
7	56S07	Storage Bin #7		25 tph	56Y07	BH-BV
8	56S08	Storage Bin #8		25 tph	56Y08	BH-BV
9	56S09	Storage Bin #9		25 tph	56Y09	BH-BV
10	56S10	Storage Bin #10		25 tph	56Y10	BH-BV

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
1-10	Opacity	20%	LCO 10.7	LCPH ATI 1971 / PTO 2039-R2
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	LCPH ATI 1970 / PTO 2040-R2 LCPH ATI 1969 / PTO 2071-R2 LCPH ATI 1968 / PTO 2041-R2 LCPH ATI 1967 / PTO 2042-R2 LCPH ATI 1966 / PTO 2043-R2 LCPH ATI 1965 / PTO 2044-R2 LCPH ATI 1964 / PTO 2045-R2 LCPH ATI 1963 / PTO 2046-R2 LCPH ATI 1962 / PTO 2047-R2
	PM/PM ₁₀	0.16 lb/hr		

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment.
- B. The normal differential pressure across the baghouse shall be maintained between 0.1" and 8.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.
- C. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.

Authority for Requirement: LCPH ATI 1971 / PTO 2039-R2; LCPH ATI 1970 / PTO 2040-R2; LCPH ATI 1969 / PTO 2071-R2; LCPH ATI 1968 / PTO 2041-R2; LCPH ATI 1967 / PTO 2042-R2; LCPH ATI 1966 / PTO 2043-R2; LCPH ATI 1965 / PTO 2044-R2; LCPH ATI 1964 / PTO 2045-R2; LCPH ATI 1963 / PTO 2046-R2; LCPH ATI 1962 / PTO 2047-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
001	61.5	Downward	5 x 6	90	403	LCPH ATI 1971 / PTO 2039-R2
002	58.5	Downward	5 x 6	90	403	LCPH ATI 1970 / PTO 2040-R2
003	58.5	Downward	5 x 6	90	403	LCPH ATI 1969 / PTO 2071-R2
004	58.5	Downward	5 x 6	90	403	LCPH ATI 1968 / PTO 2041-R2
005	58.5	Downward	5 x 6	90	403	LCPH ATI 1967 / PTO 2042-R2
006	58.5	Downward	5 x 6	90	403	LCPH ATI 1966 / PTO 2043-R2
007	58.5	Downward	5 x 6	90	403	LCPH ATI 1965 / PTO 2044-R2
008	58.5	Downward	5 x 6	90	403	LCPH ATI 1964 / PTO 2045-R2
009	58.5	Downward	5 x 6	90	403	LCPH ATI 1963 / PTO 2046-R2
010	61.5	Downward	5 x 6	90	403	LCPH ATI 1962 / PTO 2047-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary

Authority for Requirement: 567 IAC 22.108(14)

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: 11, 12, 13, 14

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
11	61W21	Pneumatic System – Dryer #1 Mixers to Scalping Reel	Starch	17.5 tph	61Y21	BH-FR
12	61Z22	Scalping Reel – Dryer 1		17.5 tph	61Y23	BH-DC
13	61W16	Vacuum System – Bldg 61		1 tph	61Y16	BH-FR
14	56FN535001	Starch Conveyors		1 tph	56BH535001	BH-DC

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
11	PM/PM ₁₀	0.15 lb/hr		LCPH ATI 5291 / PTO 5266-R1
12	PM/PM ₁₀	0.08 lb/hr		LCPH ATI 5292 / PTO 5267-R1
13	PM/PM ₁₀	0.05 lb/hr		LCPH ATI 5293 / PTO 5268-R1
14	PM/PM ₁₀	0.26 lb/hr		LCPH ATI 6526 / PTO 6472-R1
11	Opacity	20%	LCO 10.7	LCPH ATI 5291 / PTO 5266-R1
12	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	LCPH ATI 5292 / PTO 5267-R1
13				LCPH ATI 5293 / PTO 5268-R1
14				LCPH ATI 6526 / PTO 6472-R1

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

- A. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment.
- B. The normal differential pressure across the baghouse shall be maintained between 0.4" and 8.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis. **(EPs 11, 12, and 13)**
- C. The normal differential pressure across the baghouse shall be maintained between 0.2" and 5.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis. **(EP 14)**
- D. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.

Authority for Requirement: LCPH ATI 5291 / PTO 5266-R1; LCPH ATI 5292 / PTO 5267-R1; LCPH ATI 5293 / PTO 5268-R1; LCPH ATI 6526 / PTO 6472-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
11	68	V	9	180	2,225 scfm	LCPH ATI 5291 / PTO 5266-R1
12	72	V	7.75	90	1,016 scfm	LCPH ATI 5292 / PTO 5267-R1
13	64	V	6	180	730 scfm	LCPH ATI 5293 / PTO 5268-R1
14	65	V	9	80	1,400 scfm	LCPH ATI 6526 / PTO 6472-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary

Authority for Requirement: 567 IAC 22.108(14)

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: 15

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
15	61D11	Dryer #1	Starch	10 tph	61Q11	Scrubber

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
15	PM/PM ₁₀	2.07 lb/hr; 53 tons/yr ¹		LCPH ATI 3283 / PTO 3983-R4
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	

¹ This emission rate applies to the combined emissions of EP015, EP023, EP030, EP042, EP446, EP457, and EP458 to remain 'minor' for PSD.

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment.
- B. The normal differential pressure across the wet scrubber shall be maintained between 7.0" and 14.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the wet scrubber on a weekly basis.
- C. A densitometer shall be installed to monitor the density (g/cc) of the scrubber recycle water. The densitometer readings shall not exceed 1.030 g/cc. The owner or operator shall monitor and record the densitometer readings (g/cc) on a weekly basis.
- D. The recirculation water flow rate in the wet scrubber shall be maintained at a rate \geq 248 gallons per minute. The owner or operator shall monitor and record the wet scrubber water recirculation water flow rate on a weekly basis.
- E. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- F. The owner or operator shall monitor and record the number of hours the dryer is operated each month.
- G. The owner or operator shall monitor and record the monthly and 12-month rolling sum emissions for PM and PM₁₀ for EP015, EP023, EP042, EP446, EP457, and EP458.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.*

Authority for Requirement: LCPH ATI 3283 / PTO 3983-R4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
15	113.8	V	50	113	52,725	LCPH ATI 3283 / PTO 3983-R4

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
Authority for Requirement: 567 IAC 22.108(14)

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: 18, 19, 20, 21

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
18	61W31	Pneumatic System – Bins to Blender/Loadout #1	Starch	25 tph	61Y31	BH-FR
19	61Z32	Blender #1		25 tph	61Y33	BH-DC
20	61K39	Bulk Loadout #1		25 tph	61Y37	BH-DC
21	61W34	Pneumatic System – Blender to Storage Bins		25 tph	61Y34	BH-FR

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
18	PM/PM ₁₀	0.17 lb/hr		LCPH ATI 5294 / PTO 5269-R1
19	PM/PM ₁₀	0.09 lb/hr		LCPH ATI 5295 / PTO 5270-R1
20	PM/PM ₁₀	0.16 lb/hr		LCPH ATI 5296 / PTO 5271-R1
21	PM/PM ₁₀	0.1 lb/hr		LCPH ATI 5297 / PTO 5272-R1
18	Opacity	20%	LCO 10.7	LCPH ATI 5294 / PTO 5269-R1
19	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	LCPH ATI 5295 / PTO 5270-R1
20				LCPH ATI 5296 / PTO 5271-R1
21				LCPH ATI 5297 / PTO 5272-R1

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment.
- B. The normal differential pressure across the baghouse shall be maintained between 0.4" and 8.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.
- C. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.*

Authority for Requirement: LCPH ATI 5294 / PTO 5269-R1; LCPH ATI 5295 / PTO 5270-R1
LCPH ATI 5296 / PTO 5271-R1; LCPH ATI 5297 / PTO 5272-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
18	68	V	10	180	2,500	LCPH ATI 5294 / PTO 5269-R1
19	64	H	5.5 x 8	90	1,168	LCPH ATI 5295 / PTO 5270-R1
20	81	V	11.5	90	2,000	LCPH ATI 5296 / PTO 5271-R1
21	68	V	10	180	1,510	LCPH ATI 5297 / PTO 5272-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary

Authority for Requirement: 567 IAC 22.108(14)

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: 23

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
23	61D73	Starch Flash Dryer #2	Starch	12.5 tph	61Q74	Scrubber
	61H73	Starch Flash Dryer #2 Burner	Natural Gas	35 MMBtu/hr	61H73	Low NOx Burner

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.

BACT Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
23	PM/PM ₁₀ ^{1,2}	0.05 gr/dscf; 24.02 lb/hr	DNR PSD 03-A-095-P2
	Opacity	No Visible Emissions	LCPH ATI 2338 / PTO 3209-R3

¹ The emission limit is expressed as filterable PM only per original PSD Project 90-249.

² Particulate matter was assumed to be 100% PM₁₀ in original PSD Project 90-249.

Other Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement	
23	PM/PM ₁₀ ¹	4.19 lb/hr		DNR PSD 03-A-095-P2 LCPH ATI 2338 / PTO 3209-R3	
	NO _x	71 lb/MMscf			
	SO ₂	500 ppm _v			567 IAC 23.3(3)"e" LCO 10.12(2)
	Opacity	40%	567 IAC 22.3(2)"d"		
	PM	0.1 gr/dscf	567 IAC 23.4(7)		
	Opacity	20%	LCO 10.7		
	PM	0.1 gr/dscf	LCO 10.9(1)"g"		LCPH ATI 2338 / PTO 3209-R3
	SO ₂	500 ppm _v	LCO 10.12(2)		

¹ The emission limit is expressed as total PM (Filterable and Condensable).

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. Starch Flash Dryer #2 Burner (EU61H73) shall not combust more than 245.28 MMscf of natural gas per twelve-month rolling period. The owner or operator shall record natural gas usage (units of MMscf/month) for EU61H73 on a monthly and 12-month rolling total basis.
- B. The owner or operator shall check for visible emissions from the Scrubber (CE61Q74) once per day at a time when the Starch Flash Dryer #2 (EU61D73) is being operated. The owner or operator shall record the date of the observation and the presence or absence of visible emissions. If the owner or operator observes visible emissions from the Scrubber (CE61Q74), the owner or operator shall investigate the emission unit, control equipment or operations associated with the emission unit and make corrections to the associated operations or equipment. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the Starch Flash Dryer #2 (EU61D73) is not operated.

- C. The differential pressure drop across the Scrubber (CE61Q74) shall be maintained between 4" and 10" of water column.¹
- 1) The owner or operator shall record the differential pressure drop across the Scrubber (CE61Q74) on a daily basis.
- D. The Scrubber (CE61Q74) recirculation flowrate shall be maintained at a rate \geq 180 gallons per minute.
- 1) The owner or operator shall record the water flow to the scrubber (CE61Q74) on a daily basis.
- E. The owner or operator shall properly operate and maintain equipment to monitor both the differential pressure drop across and the recirculation flowrate of the Scrubber (CE61Q74). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plans.
- 1) The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the Scrubber (CE61Q74).

¹If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not apply during periods of startup, shutdown, or cleaning of the control equipment.

Authority for Requirement: DNR PSD #03-A-095-P2
LCPH ATI 2338 / PTO 3209-R3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (scfm)	Authority for Requirement
23	118	V	80	118	54,466	DNR PSD 03-A-095-P2 LCPH ATI 2338 / PTO 3209-R3

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

See Appendix B, CAM Plans Summary.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 25, 26

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
25	61W80	Pneumatic System – Loadout #3	Starch	25 tph	61Y80	BH-FR
26	61K119	Bulk Loadout #3		25 tph	61Y81	BH-DC

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
25	PM/PM ₁₀	0.11 lb/hr	LCPH ATI 2551 / PTO 2857-R2	
26		0.09 lb/hr	LCPH ATI 2550 / PTO 2858-R2	
25	Opacity	20%	LCO 10.7	LCPH ATI 2551 / PTO 2857-R2 LCPH ATI 2550 / PTO 2858-R2
26	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment.
- B. The normal differential pressure across the baghouse shall be maintained between 0.1" and 8.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.
- C. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.*

Authority for Requirement: LCPH ATI 2551 / PTO 2857-R2; LCPH ATI 2550 / PTO 2858-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
25	62.5	V	10	196	1,692	LCPH ATI 2551 / PTO 2857-R2
26	54.2	H	9.5 x 10	90	1,000	LCPH ATI 2550 / PTO 2858-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
Authority for Requirement: 567 IAC 22.108(14)

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: 30

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
30	61D99-HEAT	Dryer #3 – Heating Zone - North	Starch	17.5 tph	61Q100	Scrubber

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
30	PM/PM ₁₀	0.9 lb/hr; 53 tpy ¹		LCPH ATI 2559 / PTO 3984-R4
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	

¹ This emission rate applies to the combined emissions of EP015, EP023, EP030, EP042, EP446, EP457, and EP458 to remain 'minor' for PSD.

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment.
- B. The normal differential pressure across the wet scrubber shall be maintained between 2.5" and 4.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the wet scrubber on a weekly basis.
- C. A densitometer shall be installed to monitor the density (g/cc) of the scrubber recycle water. The densitometer readings shall not exceed 1.030 g/cc. The owner or operator shall monitor and record the densitometer readings (g/cc) on a weekly basis.
- D. The recirculation water flow rate in the wet scrubber shall be maintained at a rate \geq 189 gallons per minute. The owner or operator shall monitor and record the wet scrubber water recirculation water flow rate on a weekly basis.
- E. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- F. The owner or operator shall monitor and record the number of hours the dryer is operated each month.
- G. The owner or operator shall monitor and record the monthly and 12-month rolling sum emissions for PM and PM₁₀ for EP015, EP023, EP042, EP446, EP457, and EP458.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.*

Authority for Requirement: LCPH ATI 2559 / PTO 3984-R4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
30	99.5	V	60	124	48,627	LCPH ATI 2559 / PTO 3984-R4

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
Authority for Requirement: 567 IAC 22.108(14)

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: 31, 32, 33, 34, 35, 36, 37

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
31	61W105	Pneumatic System – Dryer #3 Mixers to Scalping Reel	Starch	15 tph	61Y105	BH-FR
32	61Z105	Scalping Reel – Dryer #3		17.5 tph	61Y106	BH-DC
33	56S11	Storage Bin #11		25 tph	56Y11	BH-BV
34	56S12	Storage Bin #12		25 tph	56Y12	BH-BV
35	56S13	Storage Bin #13		25 tph	56Y13	BH-BV
36	56S14	Storage Bin #14		25 tph	56Y14	BH-BV
37	61M125	Supersacker Packaging		20 tph	61Y126	BH-DC

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
31	PM/PM ₁₀	0.28 lb/hr	LCPH ATI 2558 / PTO 2850-R2	LCPH ATI 2558 / PTO 2850-R2 LCPH ATI 2557 / PTO 2851-R2 LCPH ATI 2556 / PTO 2852-R2 LCPH ATI 2555 / PTO 2853-R2 LCPH ATI 2554 / PTO 2854-R2 LCPH ATI 2553 / PTO 2855-R2 LCPH ATI 2552 / PTO 2856-R2
32		0.09 lb/hr	LCPH ATI 2557 / PTO 2851-R2	
33		0.17 lb/hr	LCPH ATI 2556 / PTO 2852-R2	
34		0.17 lb/hr	LCPH ATI 2555 / PTO 2853-R2	
35		0.17 lb/hr	LCPH ATI 2554 / PTO 2854-R2	
36		0.17 lb/hr	LCPH ATI 2553 / PTO 2855-R2	
37		0.09 lb/hr	LCPH ATI 2552 / PTO 2856-R2	
	Opacity	20%	LCO 10.7	
31 32 33 34 35 36 37	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	LCPH ATI 2558 / PTO 2850-R2 LCPH ATI 2557 / PTO 2851-R2 LCPH ATI 2556 / PTO 2852-R2 LCPH ATI 2555 / PTO 2853-R2 LCPH ATI 2554 / PTO 2854-R2 LCPH ATI 2553 / PTO 2855-R2 LCPH ATI 2552 / PTO 2856-R2

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment.
- B. The normal differential pressure across the baghouse shall be maintained between 0.1" and 8.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.
- C. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.

Authority for Requirement: LCPH ATI 2558 / PTO 2850-R2; LCPH ATI 2557 / PTO 2851-R2
 LCPH ATI 2556 / PTO 2852-R2; LCPH ATI 2555 / PTO 2853-R2; LCPH ATI 2554 / PTO 2854-R2;
 LCPH ATI 2553 / PTO 2855-R2; LCPH ATI 2552 / PTO 2856-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
31	61.5	V	11.5	180	3,425	LCPH ATI 2558 / PTO 2850-R2
32	61	V	13	90	1,000	LCPH ATI 2557 / PTO 2851-R2
33	64	Wall Vent	10.5 x 9.4	90	2,000 dscfm	LCPH ATI 2556 / PTO 2852-R2
34	64	Wall Vent	10.5 x 9.4	90	2,000 dscfm	LCPH ATI 2555 / PTO 2853-R2
35	64	Wall Vent	10.5 x 9.4	90	2,000 dscfm	LCPH ATI 2554 / PTO 2854-R2
36	64	Wall Vent	10.5 x 9.4	90	2,000 dscfm	LCPH ATI 2553 / PTO 2855-R2
37	54	Wall Vent	9.5 x 10	90	1,000	LCPH ATI 2552 / PTO 2856-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
 Authority for Requirement: 567 IAC 22.108(14)

Stack Testing

See Appendix E, Stack Testing Summary (EP31 only)
 Authority for Requirement – 567 IAC 22.108(3)

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: 38, 39

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
38	61W115	Pneumatic System – Loadout #2	Starch	25 tph	61Y115	BH-FR
39	61K40	Bulk Loadout #2		25 tph	61Y116	BH-DC

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.

BACT Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
38	PM/PM ₁₀ ^{1,2}	0.01 gr/dscf; 0.17 lb/hr	DNR PSD 03-A-099-P1 LPCH ATI 2337 / PTO 2818-R4
39		0.01 gr/dscf; 0.17 lb/hr	DNR PSD 03-A-100-P1 LCPH ATI 2334 / PTO 2819-R4
38 39	Opacity	No Visible Emissions	DNR PSD 03-A-099-P1 LPCH ATI 2337 / PTO 2818-R4 DNR PSD 03-A-100-P1 LCPH ATI 2334 / PTO 2819-R4

¹ The emission limit is expressed as filterable PM only per original PSD Project 90-249.

² Particulate matter was assumed to be 100% PM₁₀ in original PSD Project 90-249.

Other Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
38 39	PM/PM ₁₀ ¹	0.19 lb/hr		DNR PSD 03-A-099-P1
	Opacity	40%	567 IAC 22.3(2)"d"	LPCH ATI 2337 / PTO 2818-R4
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	DNR PSD 03-A-100-P1 LCPH ATI 2334 / PTO 2819-R4
	Opacity	20%	LCO 10.7	LPCH ATI 2337 / PTO 2818-R4
	PM	0.1 gr/dscf	LCO 10.9(1)"g"	LCPH ATI 2334 / PTO 2819-R4

¹ The emission limit is expressed as total PM (Filterable and Condensable).

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping (EP38)

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall check for visible emissions from the Baghouse (CE61Y115) once per day at a time when the Conveying to Bulk Loadout (EU61W115) is being operated. The owner or operator shall record the date of the observation and the presence or absence of visible emissions. If the owner or operator observes visible emissions from the Baghouse (CE61Y115), the owner or operator shall investigate the emission unit, control equipment or operations associated with the emission unit and make corrections to the associated operations or equipment. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the Conveying to Bulk Loadout (EU61W115) is not operated.

- B. The owner or operator is required to install a Smart Timer™ monitoring system (or equivalent) on the Baghouse (CE61Y115). The system shall include a continuous readout of the pressure drop across the Baghouse (CE61Y115) and an alarm system which is capable of alerting the facility of system and process malfunctions.
 - 1) The owner or operator shall continuously monitor the pressure drop (range) across the Baghouse (CE61Y115).
 - 2) The normal differential pressure across the baghouse (CE61Y115) shall be maintained between 0.1" and 8.0" of water column.¹
- C. The owner or operator shall properly operate and maintain equipment to monitor the differential pressure drop across the Baghouse (CE61Y115). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plans.
 - 1) The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the Baghouse (CE61Y115).

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of control equipment.

Authority for Requirement: DNR PSD 03-A-099-P1; LCPH ATI 2337 / PTO 2818-R4

Operating Requirements with Associated Monitoring and Recordkeeping (EP39)

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall check for visible emissions from the Baghouse (CE61Y116) once per day at a time when the Bulk Loadout (EU61K40) is being operated. The owner or operator shall record the date of the observation and the presence or absence of visible emissions. If the owner or operator observes visible emissions from the Baghouse (CE61K40), the owner or operator shall investigate the emission unit, control equipment or operations associated with the emission unit and make corrections to the associated operations or equipment. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the Bulk Loadout (EU61K40) is not operated.
- B. The owner or operator is required to install a Smart Timer™ monitoring system (or equivalent) on the baghouse (CE61Y116). The system shall include a continuous readout of the pressure drop across the baghouse (CE61Y116) and an alarm system which is capable of alerting the facility of system and process malfunctions.
 - 1) The owner or operator shall continuously monitor the pressure drop (range) across the baghouse (CE61Y116).
 - 2) The normal differential pressure across the baghouse (CE61Y116) shall be maintained between 0.1" and 8.0" of water column.¹
- C. The owner or operator shall properly operate and maintain equipment to monitor the differential pressure drop across the Baghouse (CE61Y116). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plans.
 - 1) The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the Baghouse (CE61Y116).

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of control equipment.

Authority for Requirement: DNR PSD 03-A-100-P1; LCPH ATI 2334 / PTO 2819-R4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
38	62	V	12	187	2,000 dscfm	DNR PSD 03-A-099-P1 LCPH ATI 2337 / PTO 2818-R4
39	68	V	18	83	2,100 dscfm	DNR PSD 03-A-100-P1 LCPH ATI 2334 / PTO 2819-R4

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
Authority for Requirement: 567 IAC 22.108(14)

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: 42

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
42	61D99-COOL	Dryer #3 – Cooling Zone – South	Starch	17.5 tph	61Q150	Scrubber

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
42	PM	1.04 lb/hr; 53 tpy ¹	LCO 10.7 567 IAC 23.4(7) LCO 10.9(1)"g"	LCPH ATI 2674 / PTO 3985-R3
	PM ₁₀	0.8 lb/hr; 53 tpy ¹		
	Opacity	20%		
	PM	0.1 gr/dscf		

¹ This emission rate applies to the combined emissions of EP015, EP023, EP030, EP042, EP446, EP457, and EP458 to remain 'minor' for PSD.

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment.
- B. The normal differential pressure across the wet scrubber shall be maintained between 6.5" and 10.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the wet scrubber on a weekly basis.
- C. A densitometer shall be installed to monitor the density (g/cc) of the scrubber recycle water. The densitometer readings shall not exceed 1.030 g/cc. The owner or operator shall monitor and record the densitometer readings (g/cc) on a weekly basis.
- D. The recirculation water flow rate in the wet scrubber shall be maintained at a rate \geq 112.5 gallons per minute. The owner or operator shall monitor and record the wet scrubber water recirculation water flow rate on a weekly basis.
- E. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- F. The owner or operator shall monitor and record the number of hours the dryer is operated each month.
- G. The owner or operator shall monitor and record the monthly and 12-month rolling sum emissions for PM and PM₁₀ for EP015, EP023, EP042, EP446, EP457, and EP458.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.*

Authority for Requirement: LCPH ATI 2674 / PTO 3985-R3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
42	101.2	V	52	109	19,500 dscfm	LCPH ATI 2674 / PTO 3985-R3

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary

Authority for Requirement: 567 IAC 22.108(14)

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: 56, 57, 58, 59, 61

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
56	61W27	Pneumatic System – Bins to Packaging	Starch	25 tph	61Y27	BH-FR
57	57PK546001-2	Starch Packaging		25 tph	61Y29	BH-DC
58	57BL545501	Pneumatic System – Bins to Packaging		20 tph	57BH545501	BH-FR
59	57PK545501	Supersacker		20 tph	57BH545502	BH-DC
61	56BL526001	Bulk Loadout		20 tph	57BH526002	BH-DC

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
56	PM/PM ₁₀	0.17 lb/hr	LCPH ATI 5561 / PTO 5509-R1	
57		0.2 lb/hr	LCPH ATI 6079 / PTO 5786-R1	
58		0.1 lb/hr	LCPH ATI 6058 / PTO 5880-R1	
59		0.12 lb/hr	LCPH ATI 6059 / PTO 5881-R2	
61		0.27 lb/hr	LCPH ATI 6503 / PTO 6307-R2	
56	Opacity	20%	LCO 10.7	LCPH ATI 5561 / PTO 5509-R1
57	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	LCPH ATI 6079 / PTO 5786-R1
58				LCPH ATI 6058 / PTO 5880-R1
59				LCPH ATI 6059 / PTO 5881-R2
61				LCPH ATI 6503 / PTO 6307-R2

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment.
- B. The normal differential pressure across the baghouse shall be maintained between 0.4" and 8.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.
- C. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.

Authority for Requirement: LCPH ATI 5561 / PTO 5509-R1; LCPH ATI 6079 / PTO 5786-R1
LCPH ATI 6058 / PTO 5880-R1; LCPH ATI 6059 / PTO 5881-R2; LCPH ATI 6503 / PTO 6307-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
56	67	V	10	180	2,200	LCPH ATI 5561 / PTO 5509-R1
57	74.9	V	10	90	1,400	LCPH ATI 6079 / PTO 5786-R1
58	68.6	V	10	80	1,200	LCPH ATI 6058 / PTO 5880-R1
59	76	V	10	80	1,500	LCPH ATI 6059 / PTO 5881-R2
61	76	V	5	80	1,560	LCPH ATI 6503 / PTO 6307-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

The following emission units exhaust through EP-057:

EU ID	Description	Rated Capacity
57BN546001	Packaging Bin	9 tons/hr
57FR546001	Rotex Sifter	9 tons/hr
57PK546001	Bag Packer – West Leg	9 tons/hr
57PK546002	Bag Packer – East Leg	9 tons/hr

The following emission units exhaust through EP-059:

EU ID	Description	Rated Capacity
57FR545503	Sifter	20 tons/hr
57BN545503	Surge Hopper	3.9 tons
57PK545501	Supersacker	15 tons/hr

Monitoring Requirements

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

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary

Authority for Requirement: 567 IAC 22.108(14)

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: 89, 90, 91, 92

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
89	BLDG03-05-FUGSO2	Fugitive – Bldg 03 – 05	Fugitive Emissions From Corn Wet Milling	105 tph	--	--
90	BLDG16-FUGPM	Fugitive – Bldg 16	Fugitive Emissions From Loading / Unloading	105 tph	--	--
91	BLDG61-FUGPM	Fugitive – Bldg 61	Fugitive Emissions from Loading / Unloading	37 tph	--	--
92	BLDG69-FUGPM	Fugitive – Bldg 69	Fugitive Emissions from Loading / Unloading	23.2 tph	--	--

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
89	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCO 10.12(2)

Pollutant: Fugitive Dust (EPs 90, 91, 92)

No person shall allow, cause or permit 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, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance. 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.

Authority for Requirement: 567 IAC 23.3(2)"c"
LCO 10.13

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: 94

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
94	BUBBLE-VOC-GR	Facility VOC/HAP Bubble (Grind Operations)	Shelled Corn	135 tph (90,000 BPD)	--	--
	BUBBLE-VOC-ST	Facility VOC/HAP Bubble (Starch Operations)	Starch	58.2 tph	--	--

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
94	VOC (Grind & Starch Operations)	136 ¹	LCPH ATI 6803 / PTO 5923-R5
	VOC (Plant-wide)	244 ²	
	Single HAP	9.4 ³	
	Total HAP	24.4 ³	

¹ Plant-wide limit for only the grind and starch operations (refer to emission units listed in Table A, Column B.1 – PSD Minor VOC Bubble).

² Plant-wide limit to remain minor for PSD (refer to emission units listed in Table A, Column B.3 – Facility VOC Bubble).

³ Plant-wide limit to remain classified as an 'area source' (refer to emission units listed in Table A, Column B.2 – Facility HAP Bubble).

Operational Limits & Requirements

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

PSD Minor VOC Bubble (Grind/Starch): A facility emission 'Bubble' limit has been established to account for Volatile Organic Compound (VOC) emissions associated with the grind and starch process. These VOC emissions are the result of a biological process that occurs naturally during the steeping process and are generated at various emission rates throughout the corn milling and starch finishing operations. Table A specifies all emission units covered under this VOC bubble limit.

Facility Minor HAP Bubble: A facility emission 'Bubble' limit has been established to account for plant-wide Hazardous Air Pollutant (HAP) emissions. For the plant to remain an 'area source,' the plant must quantify HAP emissions from all sources at the facility. Table A specifies all emission units covered under this facility bubble limit.

Facility Minor VOC Bubble: A facility emission 'Bubble' limit has been established to account for plant-wide VOC emissions. For the plant to remain minor for PSD applicability, the plant must quantify VOC emissions from all sources at the facility. Table A specifies all emission units covered under this facility bubble limit.

The following items are issued as permit conditions pursuant to the operation and compliance of this facility. These conditions are in addition to any specific permit conditions for individual sources.

Facility Operating Limits

Sources covered under bubble limit shall comply with the following operational limits:

- A. The facility shall be limited to a grind rate of 32,850,000 bushels each year, based on a 12-month rolling total (135 tons/hr).
- B. The facility shall be limited to a dried starch production rate of 503,400 tons each year, based on a 12-month rolling total (57.5 tons/hr).

Authority for Requirement: LCPH ATI 6083 / PTO 5923-R5

Facility 'Bubble Limit' Recordkeeping Requirements

Unless specified by a federal regulation, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator shall track and maintain records of the monthly and 12-month rolling total bushels ground at the facility on a monthly basis.
- B. The owner or operator shall track and maintain records of the monthly and 12-month rolling total of starch dried at the facility on a monthly basis.
- C. The owner or operator shall track and maintain monthly records of each parameter used to calculate emissions for all sources under the Facility VOC and HAP bubble limits (i.e., raw material inputs, fuel consumption, product throughput, hours of operation, emission factor, emission factor basis, etc.).
- D. The owner or operator shall submit reports that identify all exceedances of any 12-month rolling emission limitation. The report shall be submitted no later than 30 days from the end of the month in which the exceedance occurred.

PSD Minor VOC Bubble (Grind & Starch Operations):

Emission units categorized in Table A, Column B.1 (PSD Minor VOC Bubble) shall comply with all the recordkeeping requirements in Condition Facility 'Bubble Limit' Recordkeeping Requirements above and the following:

- E. The owner or operator shall calculate and maintain records of the monthly and 12-month rolling total VOC emissions (tons) for sources in the PSD Minor VOC Bubble (Grind & Starch Operations) on a monthly basis. If the 12-month rolling total emission rate exceeds 122.4 tons, the owner or operator shall maintain daily records for total emissions and 365-day rolling total emissions for VOCs. The owner or operator may use the monthly average for the previous days not calculated on a daily basis. Daily calculations for VOCs shall continue until the 12-month rolling total emissions drop below 122.4 tons on the last day of a month. Monthly calculations for VOCs will then begin the following month.

Facility VOC Bubble (Plant-Wide Operations):

Emission units categorized in Table A, Column B.3 (Facility VOC Bubble) shall comply with all the recordkeeping requirements in Condition Facility 'Bubble Limit' Recordkeeping Requirements above and the following:

- F. The owner or operator shall calculate and maintain records of the monthly and 12-month rolling total VOC emissions (tons) for sources in the Facility VOC Bubble on a monthly basis. If the 12-month rolling total emission rate exceeds 224 tons, the owner or operator shall maintain daily records for total emissions and 365-day rolling total emissions for VOCs. The owner or operator may use the monthly average for the previous days not calculated on a daily basis. Daily calculations for VOCs shall continue until the 12-month rolling total emissions drop below 224 tons on the last day of the month. Monthly calculations for VOCs will then begin in the following month.

Facility HAP Bubble (Plant-Wide Operations):

Emission units categorized in Table A, Column B.2 (Facility HAP Bubble) shall comply with all the recordkeeping requirements in Condition Facility 'Bubble Limit' Recordkeeping Requirements above and the following:

- G. The owner or operator shall calculate and maintain records of the monthly and 12-month rolling total emissions (tons) of each single HAP (SHAP) for sources in the Facility HAP Bubble on a monthly basis. If the 12-month rolling total SHAP emission rate exceeds 8.46 tons, the owner or operator shall maintain daily records for total emissions and 365-day rolling total emissions for the affected SHAP(s). The facility may use the monthly average for the previous days not calculated on a daily basis. Daily calculation for the affected SHAP(s) shall continue until the 12-month rolling total emissions drop below 8.46 tons on the last day of the month. Monthly calculations for the affected SHAP(s) will then begin in the following month.
- H. The owner or operator shall calculate and maintain records of the monthly and 12-month rolling total emissions (tons) of total combined HAP (THAP) for sources in the Facility HAP Bubble on a monthly basis. If the 12-month rolling total THAP emission rate exceeds 21.96 tons, the owner or operator shall maintain daily records for total emissions and 365-day rolling total emissions for THAPs. The facility may use the monthly average for the previous days not calculated on a daily basis. Daily calculations for THAPs shall continue until the 12-month rolling total emissions drop below 21.96 tons on the last day of a month. Monthly calculations for THAPs will then begin in the following month.

The following emission units are covered under the Ingredion Incorporated Facility VOC emission bubble limit. The emission tracking requirements are listed in condition Facility 'Bubble Limit' Recordkeeping Requirements.

Table A

Ingredion EU #	Linn County EP #	EU Description	Emission Tracking Categories		
			B.1 PSD Minor VOC Bubble	B.2 Facility HAP Bubble	B.3 Facility VOC Bubble
EU56S01	001	Storage Bin #1	Yes	Yes	Yes
EU56S02	002	Storage Bin #2	Yes	Yes	Yes
EU56S03	003	Storage Bin #3	Yes	Yes	Yes
EU56S04	004	Storage Bin #4	Yes	Yes	Yes
EU56S05	005	Storage Bin #5	Yes	Yes	Yes
EU56S06	006	Storage Bin #6	Yes	Yes	Yes
EU56S07	007	Storage Bin #7	Yes	Yes	Yes
EU56S08	008	Storage Bin #8	Yes	Yes	Yes
EU56S09	009	Storage Bin #9	Yes	Yes	Yes
EU56S10	010	Storage Bin #10	Yes	Yes	Yes
EU61W21	011	Pneumatic System - Dryer #1 Mixers to Scalping Reel	Yes	Yes	Yes
EU61Z22	012	Scalping Reel, Dryer #1	Yes	Yes	Yes
EU61W16	013	Vacuum System - Bldg 61	Yes	Yes	Yes
EU57FN535001	014	Bin Conveyors		Yes	Yes
EU61D11	015	Dryer #1	Yes	Yes	Yes
EU61W31	018	Pneumatic System - Bins to Blender/ Loadout #1	Yes	Yes	Yes
EU61Z32	019	Blender #1	Yes	Yes	Yes
EU61K39	020	Bulk Loadout #1	Yes	Yes	Yes
EU61W34	021	Pneumatic System - Blender to Storage Bins	Yes	Yes	Yes
EU61H73; EU61D73	023	Dryer #2	Yes	Yes	Yes
EU61W80	025	Pneumatic System - Loadout #3	Yes	Yes	Yes
EU61K119	026	Bulk Loadout #3	Yes	Yes	Yes
EU61D99-HEAT	030	Dryer #3 - Heating Zone	Yes	Yes	Yes
EU61W105	031	Pneumatic System - Dryer #3 Mixers to Scalping Reel	Yes	Yes	Yes
EU61Z105	032	Scalping Reel, Dryer #3	Yes	Yes	Yes
EU56S11	033	Storage Bin #11	Yes	Yes	Yes
EU56S12	034	Storage Bin #12	Yes	Yes	Yes
EU56S13	035	Storage Bin #13	Yes	Yes	Yes
EU56S14	036	Storage Bin #14	Yes	Yes	Yes
EU61M125	037	Supersacker Packaging	Yes	Yes	Yes
EU61W115	038	Pneumatic System - Loadout #2	Yes	Yes	Yes
EU61K40	039	Bulk Loadout #2	Yes	Yes	Yes
EU61D99-COOL	042	Dryer #3 - Cooling Zone	Yes	Yes	Yes

Ingredient EU #	Linn County EP #	EU Description	Emission Tracking Categories		
			B.1 PSD Minor VOC Bubble	B.2 Facility HAP Bubble	B.3 Facility VOC Bubble
EU61W27	056	Pneumatic System - Bins to Packing	Yes	Yes	Yes
EU57PK546001-2	057	Starch Packaging	Yes	Yes	Yes
EU57BL545501	058	Pneumatic System - Bins to Packing	Yes	Yes	Yes
EU57PK545501	059	Supersacker	Yes	Yes	Yes
EU57BN526001	060	Surge Bin		Yes	Yes
EU56BL526001	061	Bulk Loadout		Yes	Yes
BLDG16-FUGVOC	088	Fugitive - Bldg 16 VOC		Yes	No
EU95-FUGITIVE	095	Ethanol Fugitives		Yes	No
EU13PU095201	105	Fire Pump		Yes	Yes
EU14TK140001-701	106	Main Fermentation Vent		Yes	Yes
EU15TK160001	108	Stillage Tank		Yes	Yes
EU15DISTILLATION	109	Distillation Vent		Yes	Yes
EU15PU160102	110	Vacuum Pump - Stillage Evaporator		Yes	Yes
EU17TK210101	112	Storage Tank - Off-Spec Ethanol		Yes	Yes
EU17TK210201	114	Storage Tank - Anhydrous Ethanol		Yes	Yes
EU17TK210401	115	Storage Tank - Denaturant		Yes	Yes
EU17FL211501	117	Flare		Yes	Yes
EU13CT400001	118	Cooling Tower - Bldg 13		Yes	Yes
EU25CT400101	119	Cooling Tower - Bldg 25		Yes	Yes
EU85S01	121	Soda Ash Storage Bin		Yes	NA
EU25-VACUUMPUMPS	122	Vacuum Pumps		Yes	Yes
EU95TK210501	123	Storage Tank - Denatured Product		Yes	Yes
EU95TK210601	124	Storage Tank - Denatured Product		Yes	Yes
EU16BL71601	206	Vacuum System - Bldg 16	Yes	Yes	Yes
EU16-CONVEY&LOAD	207	Convey & Load & Transfer Feed	Yes	Yes	Yes
EU04-STEEPS&MILL	241	Steep & Surge Tanks & Millhouse Tanks		Yes	Yes
EU05-GLUTF&VETP	251	Gluten Filters & Vetter Presses	Yes	Yes	Yes
EU05BL53001	255	Pneumatic System - Gluten Meal Recycle	Yes	Yes	Yes
EU05DR042006	260	Germ Rotary Tube Dryer #6		Yes	Yes
EU05DR42004	261	Germ Rotary Tube Dryer #4 - Cooling	Yes	Yes	Yes
EU05DR42003	262	Germ Rotary Tube Dryer #3	Yes	Yes	Yes
EU05DR42002	263	Germ Rotary Tube Dryer #2	Yes	Yes	Yes
EU05DR42001	264	Germ Rotary Tube Dryer #1	Yes	Yes	Yes
EU05DR42005; EU05MS42001	265	Germ Predryer	Yes	Yes	Yes
EU05VP52701	271	Vacuum Pump - #6 Gluten Filter	Yes	Yes	Yes
EU70BH54003	273	Gluten Blower Dust Collector		Yes	Yes

Ingredient EU #	Linn County EP #	EU Description	Emission Tracking Categories		
			B.1 PSD Minor VOC Bubble	B.2 Facility HAP Bubble	B.3 Facility VOC Bubble
EU70DR54001; EU70MS54001	275	Gluten Meal Dryer	Yes	Yes	Yes
EU05-PROCESS-TKS	279	Bldg 05 Process Tanks	Yes	Yes	Yes
EU58-CORNCONVEY	285	Corn Unload & Handling		NA ¹	NA ¹
EU04CT08001	287	Cooling Tower - Bldg 04		Yes	Yes
EU60CT008101	288	Cooling Tower - Bldg 60		Yes	Yes
EU08TANKS	290	Starch Slurry Tanks - Bldg 8	Yes	Yes	Yes
EU58W22	294	Vacuum System - Bldg 58/59		Yes	Yes
EU25BD171601&TK	325	Starch Reslurry - Bldg 25		Yes	Yes
EU69Z02	403	Blender #2	Yes	Yes	Yes
EU69Z482501	404	Blender #1	Yes	Yes	Yes
EU69-LOADOUTMID	407	Bulk Loadout - Middle	Yes	Yes	Yes
EU69W11	409	Pneumatic System - Dryer #11	Yes	Yes	Yes
EU69W02	413	Pneumatic System - Blender #2 & Finish Bins	Yes	Yes	Yes
EU69Z11	414	Scalping Reel, Dryer #11	Yes	Yes	Yes
EU69S13	415	A Bin		Yes	Yes
EU69S14	416	B Bin		Yes	Yes
EU69S15	417	C Bin		Yes	Yes
EU69BN490101	421	Storage Bin #1	Yes	Yes	Yes
EU69Y02S	422	Storage Bin #2		Yes	Yes
EU69BN490301	423	Storage Bin #3	Yes	Yes	Yes
EU69Y04	424	Storage Bin #4		Yes	Yes
EU69BN490501	425	Storage Bin #5	Yes	Yes	Yes
EU69Y06	426	Storage Bin #6		Yes	Yes
EU69BN490701	427	Storage Bin #7	Yes	Yes	Yes
EU69Y08	428	Storage Bin #8		Yes	Yes
EU69BN490901	429	Storage Bin #9	Yes	Yes	Yes
EU69BN491001	430	Storage Bin #10	Yes	Yes	Yes
EU69BN491101	431	Storage Bin #11	Yes	Yes	Yes
EU69VP471201	437	Vacuum Pump - Dryer #4		Yes	Yes
EU69D11	446	Dryer #11	Yes	Yes	Yes
EU69D12	457	Dryer #12	Yes	Yes	Yes
EU69DR471404	458	Dryer #4		Yes	Yes
EU69W22	460	Vacuum System - Bldg 69	Yes	Yes	Yes
EU69Z12	461	Scalping Reel, Dryer #12	Yes	Yes	Yes
EU69W12	463	Pneumatic System - Dryer #12 to Scalping Reel	Yes	Yes	Yes
EU69W05	464	Pneumatic System - ABC Storage Bins to Bldg 69	Yes	Yes	Yes

Ingredient EU #	Linn County EP #	EU Description	Emission Tracking Categories		
			B.1 PSD Minor VOC Bubble	B.2 Facility HAP Bubble	B.3 Facility VOC Bubble
EU69W16	465	Pneumatic System - ABC Bins to Bulk Loadout #1	Yes	Yes	Yes
EU69W12A	466	Pneumatic System - Dryer #12 SR to Bins/Loadout	Yes	Yes	Yes
EU69-LOADOUTEAST	467	Bulk Loadout - East	Yes	Yes	Yes
EU69-LOADOUTWEST	468	Bulk Loadout - West	Yes	Yes	Yes
EU69W01	469	Pneumatic System - Blender #1 & Finish Bins	Yes	Yes	Yes
EU69K17A-B	472	Bulk Loadout Conveyor - North	Yes	Yes	Yes
EU69K18A-B	473	Bulk Loadout Conveyor - South	Yes	Yes	Yes
EU69T19-39	477	Treating Tanks - Bldg 69	Yes	Yes	Yes
EU77T01-07	478	Treating Tanks - Bldg 77	Yes	Yes	Yes
EU97-REACTORS-EO; EU97-REACTORS-PO	480	EO/PO Reactors		Yes	Yes
EU68T51-52	481	Treating Tanks - Bldg 68		Yes	Yes
EU65BO201001	521	Boiler #1		Yes	Yes
EU65BO202001	522	Boiler #2		Yes	Yes
EU21H01	565	Cooling Tower - Bldg 21		Yes	Yes
EU69BN099301	573	Sodium Sulfate Storage Bin		NA ¹	NA ¹
EU69TK099301	574	Sodium Sulfate Mix Tank		NA ¹	NA ¹
EU93-UNLOADSALT1	575	Salt Tank #1		NA ¹	NA ¹
EU93-UNLOADSALT2	576	Salt Tank #2		NA ¹	NA ¹
EU93-UNLOADSALT3	577	Salt Tank #3		NA ¹	NA ¹
EU94-UNLOADHCL; EU94-UNLOADAAA; 95T097201	582	HCl Unload & Storage & AA/AdA Unload & Storage		Yes	Yes
EU96H21	610	Cooling Tower - Bldg 96		Yes	Yes
EU95CT103100	611	Cooling Tower - Bldg 95		Yes	Yes
EU95T100B	685	Reslurry Tank	Yes	Yes	Yes
EU700	700	Exemption - R&D Activities		Yes	Yes
EU67TK	750	Starch Reslurry - Bldg 67A		Yes	Yes
EU67-R&D	752	R&D Scrubber		Yes	Yes
EU041	--	Starch Slurry Tank	Yes	Yes	Yes
EU042	--	Starch Slurry Tank	Yes	Yes	Yes
EU043-46	--	Combo EU043-46	Yes	Yes	Yes
EU047	--	Dryers No. 1 - 2 Vacuum Pump	Yes	Yes	Yes
EU048	--	Dryers No. 1 - 2 Vacuum Pump	Yes	Yes	Yes
EU049	--	Dryer No. 3 Vacuum Pump	Yes	Yes	Yes
EU050	--	Dryers No. 1 - 2 Vacuum Pump	Yes	Yes	Yes
EU070	--	Evaporator Vacuum Pump	Yes	Yes	Yes
EU100	--	Storage Tank - Treatment Chemical (Cortrol Tank, etc.)		Yes	Yes

Ingredient EU #	Linn County EP #	EU Description	Emission Tracking Categories		
			B.1 PSD Minor VOC Bubble	B.2 Facility HAP Bubble	B.3 Facility VOC Bubble
EU134K; EU134NG	--	Furnaces		Yes	Yes
EU181	--	N. Equalization Tank		Yes	Yes
EU188	--	Wastewater Flume		Yes	Yes
EU231-EU240	--	Dust Vents on Top of Silos		Yes	Yes
EU266	--	No. 1 Gluten Filter Vacuum Pump	Yes	Yes	Yes
EU267	--	No. 2 Gluten Filter Vacuum Pump	Yes	Yes	Yes
EU268	--	No. 3 Gluten Filter Vacuum Pump	Yes	Yes	Yes
EU269	--	No. 4 Gluten Filter Vacuum Pump	Yes	Yes	Yes
EU270	--	No. 5 Gluten Filter Vacuum Pump	Yes	Yes	Yes
EU323	--	Vacuum Pump – B25	Yes	Yes	Yes
EU329	--	HC1 Tank Vent		Yes	Yes
EU333	--	Saccharification Tanks		Yes	Yes
EU373	--	Bubble VOC, Sugar		Yes	Yes
EU433	--	No. 9 Vacuum Pump		Yes	Yes
EU434	--	No. 10 Vacuum Pump		Yes	Yes
EU435	--	No. 11 Vacuum Pump	Yes	Yes	Yes
EU436	--	No. 12 Vacuum Pump	Yes	Yes	Yes
EU583	--	Fugitive EO and PO Emissions		Yes	No ²
EU584	--	Fugitive Chlorine Emissions		Yes	No ²
EU588	--	Fuel Oil Storage Tanks		Yes	Yes
EU620	--	Starch Slurry	Yes	Yes	Yes
EU621	--	Starch Slurry	Yes	Yes	Yes
EU623	--	Vacuum Pump Discharge	Yes	Yes	Yes
EU13G01	--	Craftsman 4500W Portable (gas) 7.8 Hp		Yes	Yes
EU13J02	--	Portable Air Compressor		Yes	Yes
EU13P02	--	Blue Goose		Yes	Yes
EU13P03	--	Shop (gas)		Yes	Yes

¹ Source does not have the potential to emit VOC or HAP.

² Fugitive VOC emissions are not included in determining major source status pursuant to 40 CFR §52.21(b)(1)(i)(a)(iii).

NOTE: Sources without Linn County EP ID's are either listed in Ingredient's Operating Permit under the Insignificant Units section or are fugitive in nature.

Authority for Requirement: LCPH ATI 6083 / PTO 5923-R5

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: 95

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
95	95-FUGITIVE	Ethanol Fugitives	Ethanol	50 MMGal/yr	--	--

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
95	VOC	9.8 ¹	LCPH ATI 5991 / PTO 5678-R1

¹ This emission limit was calculated using emission factors from EPA Document 453-R-95-017, titled 'Protocol for Equipment Leak Emission Estimates.'

Operational Limits & Requirements

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

Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCCO)	Federal Reference (40 CFR)
95-FUGITIVE	A	General Conditions	NA	10.9(2)	§60.1 – §60.19
	VV	Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006	NA	10.9(2)(40)	§60.480 – §60.489

Authority for Requirement: LCPH ATI 5991 / PTO 5678-R1

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall document the number and type of all equipment, as defined in NSPS Subpart VV 40 CFR §60.481.
- B. This owner or operator shall comply with the requirements of NSPS Subpart VV by meeting the standards of 40 CFR §60.482-1 through 40 CFR §60.485.
- C. The owner or operator shall maintain records of the VOC emissions from all equipment plant-wide, as defined in NSPS Subpart VV 40 CFR §60.481, and update the 12-month rolling total on a monthly basis. Emission factors shall be based on EPA Document 453-R-95-017, titled 'Protocol for Equipment Leaks Emission Estimates.'
- D. Recordkeeping for NSPS Subpart VV shall be completed according to 40 CFR §60.486.
- E. Reporting for NSPS Subpart VV shall be completed according to 40 CFR §60.487.

Authority for Requirement: LCPH ATI 5991 / PTO 5678-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
95			Fugitive			LCPH ATI 5991 / PTO 5678-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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: 105

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
105	13PU095201	Fire Pump	Diesel Fuel	288 hp-hr 15 gph	--	--

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.

NSPS Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
105	PM-Federal	0.40 grams/HP-hr	40 CFR §60.4205(c) LCO 10.9(2)"a"(77) ¹	LCPH ATI 5567 / PTO 5468-R1
	Opacity – Acceleration Mode	20% ²	40 CFR §60.4211(b)(1) 40 CFR §89.113(a)(1)	
	Opacity – Lugging Mode	15% ²	40 CFR §60.4211(b)(1) 40 CFR §89.113(a)(2)	
	Opacity – Peaks in either the Acceleration or Lugging Modes	50% ²	40 CFR §60.4211(b)(1) 40 CFR §89.113(a)(3)	
	NMHC + NO _x	7.8 grams/HP-hr	40 CFR §60.4205(c) LCO 10.9(2)"a"(77) ¹	
	CO	2.6 grams/HP-hr	40 CFR §60.4205(c) LCO 10.9(2)"a"(77) ¹	
	Fuel Sulfur Content	15 ppm (0.0015%) by weight	40 CFR §60.4207(b) 40 CFR §80.510(b)(1)(i)	

¹ Linn County's reference to 40 CFR Part 60, Subpart IIII – *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.*

² Opacity levels are to be measured and calculated as set forth in 40 CFR Part 86, Subpart I.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
105	PM	0.1 gr/dscf	LCO 10.9(1)"a"	LCPH ATI 5567 / PTO 5468-R1
	PM/PM ₁₀	0.21 lb/hr		
	Opacity	20%	LCO 10.7	
	SO ₂	1.5 lb/MMBtu	LCO 10.12(1)"b"	

Operational Limits & Requirements

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

Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCCO)	Federal Reference (40 CFR)
13PU095201	A	General Conditions	NA	10.9(2)	§60.1 – §60.19
	III	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	Fire Pump	10.9(2)(77)	§60.4200 – §60.4219

B. National Emission Standards for Hazardous Air Pollutants (NESHAP):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCCO)	Federal Reference (40 CFR)
13PU095201	ZZZZ ¹	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	Fire Pump	10.9(4)"zzzz"	§63.6580 – §63.6675

¹ In accordance with 40 CFR §63.6590(a)(2)(iii), the emergency fire pump is considered a new stationary reciprocating internal combustion engine, because its construction was commenced on or after June 12, 2006. As a result, in accordance with 40 CFR §63.6590(c) and §63.6590(c)(1), a new or reconstructed stationary reciprocating internal combustion engine located at an area source of hazardous air pollutants (HAP) emissions must meet the applicable requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart III, for compression ignition engines. No further requirements apply for such engines under subpart ZZZZ.

Authority for Requirement: LCPH ATI 5567 / PTO 5468-R1

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall comply with the Fuel Requirements for Owners and Operators of 40 CFR §60.4207 (NSPS Subpart III). Specifically, the emergency fire pump is limited to burning diesel fuel with a maximum sulfur content of 15 ppm (0.0015%) by weight and either a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.
 - i. The owner or operator shall have the fuel supplier certify that the fuel delivered meets the definition of non-road diesel fuel as indicated in 40 CFR §80.510(b); or
 - ii. The owner or operator shall obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
 - iii. The owner or operator shall perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.
- B. The emergency fire pump is limited to operating a maximum of 1,000 hours in any 12-month rolling period.
 - i. The owner or operator shall maintain the following monthly records:
 - 1. The total number of hours the fire pump operated;
 - 2. The rolling 12-month total of the number of hours that the fire pump operated.
- C. This engine is limited to operate as an emergency fire pump engine as defined in §60.4219 and in accordance with §60.4211. There is no limit on the use of the fire pump in emergency situations provided that the annual hourly limit established in this permit is not exceeded. In accordance with §60.4211, the fire pump engine is limited to operating a maximum of 100 hours per year for maintenance checks and readiness testing. The fire pump engine is also allowed to operate up to 50 hours per year in non-

emergency situations, but the 50 hours are counted towards the 100 hours provided for maintenance and testing. The 50 hours per year for non-emergency operation cannot be used to generate income for the facility to supply power to the electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. This fire pump engine is not allowed to operate as a peak shaving unit.

- i. The owner or operator shall maintain the following monthly records:
 1. The number of hours that the engine operated for maintenance checks and readiness testing and
 2. The number of hours that the engine operated for allowed non-emergency situations.
 - ii. The owner or operator shall maintain the following annual records:
 1. The number of hours that the engine operated for maintenance checks and readiness testing and
 2. The number of hours that the engine operated for allowed non-emergency operations.
- D. The owner or operator shall comply with the applicable standards in 40 CFR Part 60, Subpart IIII [§60.4200 - §60.4219], including those not specifically mentioned in this permit.
- i. In accordance with §60.4206, the owner or operator must ensure that the emergency fire pump complies with the emission standards in §60.4205 over the entire life of the engine by doing the following:
 1. Operate and maintain the engine according to the manufacturer's emission-related written instructions;
 2. Change only those emission-related settings that are permitted by the manufacturer; and
 3. Meet the requirements of 40 CFR Parts 89, 94, and/or 1068, as applicable.
 - ii. In accordance with §60.4209(a), the engine shall be equipped with a non-resettable hour meter;
 - iii. In accordance with §60.4211(b), the owner or operator of a fire pump engine that must comply with the emission standards specified in §60.4205(c), must demonstrate compliance by:
 1. Purchasing an engine certified according to 40 CFR Part 89 or 40 CFR Part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.
 2. Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in Subpart IIII and these methods must have been followed correctly.
 3. Keeping records of engine manufacturer data indicating compliance with the standards.
 4. Keeping records of control device vendor data indicating compliance with the standards.
 5. Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.
 - iv. If the emergency fire pump is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or the emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as follows:
 1. Keep a maintenance plan and records of conducted maintenance.
 2. To the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions; and
 3. Conduct an initial performance test to demonstrate compliance with the applicable emission standards as instructed in 40 CFR §60.4211(g)(2).

Authority for Requirement: LCPH ATI 5567 / PTO 5468-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
105	3	H	3	952	1,632	LCPH ATI 5567 / PTO 5468-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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: 106, 109

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
106	14TK140001-701	Main Fermentation Vent	Ethanol	50 MMgal/yr	14SR140901	Scrubber
109	15DISTILLATION	Distillation Vent	Ethanol	50 MMgal/yr	15SR150401	Scrubber

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
106	VOC	4.25 lb/hr; 18.69 tpy	LCPH ATI 52255 / PTO 5959-R2
109		0.61 lb/hr	LCPH ATI 5875 / PTO 5671-R1

Operational Limits & Requirements

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

Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCCO)	Federal Reference (40 CFR)
14TK140001-701 15DISTILLATION	A	General Conditions	NA	10.9(2)	§60.1 – §60.19
	VV	Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006	NA	10.9(2)(40)	§60.480 – §60.489

Authority for Requirement: LCPH ATI 5255 / PTO 5959-R2; LCPH ATI 5875 / PTO 5671-R1

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall comply with the requirements of NSPS Subpart A (40 CFR §60.1 through §60.19) to comply with LCCO 10.9(2).
- B. The owner or operator shall comply with the requirements of NSPS Subpart VV by meeting the standards of 40 CFR §60.482-1 through §60.485 to comply with LCCO 10.9(2)"a"(40).
- C. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- D. The owner or operator shall comply with the notification and record keeping requirements of NSPS Subpart A, pursuant to 40 CFR §60.7.
- E. The owner or operator shall comply with the recordkeeping requirements of NSPS Subpart VV, pursuant to 40 CFR §60.486.
- F. The owner or operator shall comply with the reporting requirements of NSPS Subpart VV, pursuant to 40 CFR §60.487.

Authority for Requirement: LCPH ATI 5255 / PTO 5959-R2; LCPH ATI 5875 / PTO 5671-R1

(EP106 only)

- A. This facility is limited to a maximum of 50 million gallons of anhydrous alcohol per 12-month rolling period. The owner or operator shall record the amount of anhydrous alcohol produced on a monthly and rolling 12-month total basis.
- B. The fresh water flow rate in the scrubber shall be no less than 40 gpm during normal operation. At reduced rates (<100 gpm glucose feed), the fresh water flow rate in the scrubber shall be no less than 27 gpm¹. The owner or operator shall monitor and record the fresh water flow rate in the scrubber on a weekly³ basis.
- C. The normal differential pressure across the scrubber shall be maintained between 0.5" and 6.0" of water column². The owner or operator shall monitor and record the differential pressure across the scrubber on a weekly basis.

¹ When the glucose feed is less than 32 gpm and fermentation has reduced such that the differential pressure is 0.7" of water column or less, the fresh water flow rate in the scrubber shall be no less than 10 gpm.

² If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not apply during periods of startup, shutdown, cleaning of control equipment, or at reduced operating rates (less than 100 gpm glucose feed).

³ CAM requirements in Appendix B requires the fresh water flow rate to be monitored and recorded on a daily basis.

Authority for Requirement: LCPH ATI 5255 / PTO 5959-R2

(EP109 only)

- A. The fresh water flow rate in the scrubber shall be no less than 4 gpm during normal operation. At reduced rates (< 43 gpm anhydrous alcohol), the fresh water flow rate in the scrubber shall be no less than 2.9 gpm. The owner or operator shall monitor and record the fresh water flow rate in the scrubber on a weekly basis.
- B. The normal differential pressure across the scrubber shall be maintained between 0.5" to 4.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the scrubber on a weekly basis.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, cleaning of control equipment, or at reduced operating rates (less than 43 gpm anhydrous ethanol production rate).

Authority for Requirement: LCPH ATI 5875 / PTO 5671-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
106	80	V	17.5	60	6,100	LCPH ATI 5255 / PTO 5959-R2
109	71.4	V	3	50	60	LCPH ATI 5875 / PTO 5671-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

The following emission units exhaust through EP-106:

EU ID	Description	Storage Capacity
14TK140001	Pre-fermenter	289,194 Gallons
14TK140101	Fermenter 1	437,800 Gallons
14TK140201	Fermenter 2	437,800 Gallons
14TK140301	Fermenter 3	437,800 Gallons
14TK140401	Fermenter 4	437,800 Gallons
14TK140701	Beer Well	289,184 Gallons

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?⁽¹⁾ Yes No
See Appendix B, CAM Plans Summary. (EP106 only)

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 108

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
108	15TK160001	Stillage Tank	Stillage	419,630 gallons	--	--

Applicable Requirements

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
108	32	D	8	176	PD	LCPH ATI 5264 /PTO 5516-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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: 110

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
110	15PU160102	Vacuum Pump – Stillage Evaporator	Air/Filtrate Water	50 MMgal/yr	--	--

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
110	VOC	0.1 lb/hr	LCPH ATI 5257 / PTO 5517-R1

Operational Limits & Requirements

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

Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCCO)	Federal Reference (40 CFR)
15PU160102	A	General Conditions	NA	10.9(2)	§60.1 – §60.19
	VV	Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006	NA	10.9(2)(40)	§60.480 – §60.489

Authority for Requirement: LCPH ATI 5257 / PTO 5517-R1

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall comply with the requirements of NSPS Subpart A (40 CFR §60.1 through §60.19) to comply with LCCO 10.9(2).
- B. The owner or operator shall comply with the requirements of NSPS Subpart VV by meeting the standards of 40 CFR §60.482-1 through §60.485 to comply with LCCO 10.9(2)"a"(40).
- C. The owner or operator shall comply with the notification and record keeping requirements of NSPS Subpart A, pursuant to 40 CFR §60.7.
- D. The owner or operator shall comply with the recordkeeping requirements of NSPS Subpart VV, pursuant to 40 CFR §60.486.
- E. The owner or operator shall comply with the reporting requirements of NSPS Subpart VV, pursuant to 40 CFR §60.487.

Authority for Requirement: LCPH ATI 5257 / PTO 5517-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
110	40	V	3	120	24	LCPH ATI 5257 / PTO 5517-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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: 112, 114, 115, 123, 124

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
112	17TK210101	Storage Tank – Off-Spec Ethanol	Ethanol	115,500 gallons	17TK210101	Internal Floating Roof
114	17TK210201	Storage Tank – Anhydrous Ethanol	Ethanol	424,480 gallons	17TK210201	Internal Floating Roof
115	17TK210401	Storage Tank – Denaturant	Denaturant	46,998 gallons	17TK210401	Internal Floating Roof
123	95TK210501	Storage Tank – Denatured Product	Ethanol	25,220 gallons	95TK210501	Internal Floating Roof
124	95TK210601	Storage Tank – Denatured Product	Ethanol	25,220 gallons	95TK210601	Internal Floating Roof

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
112	VOC	0.1 tons/yr	LCPH ATI 5258 / PTO 5518-R1
114		0.21 ton/yr	LCPH ATI 5259 / PTO 5519-R1
115		1.0 tons/yr	LCPH ATI 5353 / PTO 5511-R1
123		0.65 tons/yr	LCPH ATI 5355 / PTO 5512-R1
124		0.65 tons/yr	LCPH ATI 5356 / PTO 5513-R1

Operational Limits & Requirements

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

Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCCO)	Federal Reference (40 CFR)
17TK210101 17TK210201 17TK210401 17TK210501 17TK210601	A	General Conditions	NA	10.9(2)	§60.1 – §60.19
	VV	Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006	NA	10.9(2)(40)	§60.480 – §60.489
	Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or	NA	10.9(2)(56)	§60.110b – §60.117b

EU ID	Subpart	Title	Type	Local Reference (LCCO)	Federal Reference (40 CFR)
		Modification Commenced after July 23, 1984			

B. National Emission Standards for Hazardous Air Pollutants (NESHAP):

The National Emission Standards for Hazardous Air Pollutants (NESHAP) Subparts A (General Provisions; 40 CFR §63.1 through §63.16) and VVVVVV (National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources; 40 CFR §63.11494 through §63.11503) **shall not** apply to this source. The Chemical Manufacturing Process Unit (CMPU) does not meet the conditions specified in 40 CFR §63.11494 since the HAPs generated or produced in the CMPU and are present in the process fluids (at concentrations greater than 0.1 percent for carcinogens, as defined by the Occupational Safety and Health Administration [29 CFR §1910.1200(d)(4)] and greater than 1.0 percent for noncarcinogens) does not meet these thresholds. Authority for Requirement: LCPH ATI 5258 / PTO 5518-R1; LCPH ATI 5259 / PTO 5519-R1; LCPH ATI 5353 / PTO 5511-R1; LCPH ATI 5355 / PTO 5512-R1; LCPH ATI 5356 / PTO 5513-R1

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall comply with the requirements of NSPS Subpart A (40 CFR §60.1 through §60.19) to comply with LCCO 10.9(2).
- B. The owner or operator shall comply with the requirements of NSPS Subpart VV by meeting the standards of 40 CFR §60.482-1 through §60.485 to comply with LCCO 10.9(2)"a"(40).
- C. The owner or operator shall comply with the requirements of NSPS Subpart Kb by meeting the standards of 40 CFR §60.112b and the testing procedures of 40 CFR §60.113b to comply with LCCO 10.9(2)"a"(56).
- D. The owner or operator shall comply with the notification and record keeping requirements of NSPS Subpart A, pursuant to 40 CFR §60.7.
- E. The owner or operator shall comply with the recordkeeping requirements of NSPS Subpart VV, pursuant to 40 CFR §60.486.
- F. The owner or operator shall comply with the reporting requirements of NSPS Subpart VV, pursuant to 40 CFR §60.487.
- G. The owner or operator shall comply with the recordkeeping requirements of NSPS Subpart Kb, 40 CFR §60.115b and 40 CFR §60.116b.
- H. The owner or operator shall comply with the reporting requirements of NSPS Subpart Kb, 40 CFR §60.115b.
- I. The total denaturant usage shall not exceed 15 million gallons per 12-month rolling period. The owner or operator shall monitor and record the amount of denaturant on a monthly and 12-month rolling total basis.

Authority for Requirement: LCPH ATI 5258 / PTO 5518-R1; LCPH ATI 5259 / PTO 5519-R1; LCPH ATI 5353 / PTO 5511-R1; LCPH ATI 5355 / PTO 5512-R1; LCPH ATI 5356 / PTO 5513-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
112	30	H (4 Vents)	20 (each)	Ambient	PD	LCPH ATI 5258 / PTO 5518-R1
114	44	H (5 Vents)	20 (each)	Ambient	PD	LCPH ATI 5259 / PTO 5519-R1
115	24	H (4 Vents)	20 (each)	Ambient	PD	LCPH ATI 5353 / PTO 5511-R1
123	22.5	H (4 Vents)	20 (each)	Ambient	PD	LCPH ATI 5355 / PTO 5512-R1
124	22.5	H (4 Vents)	20 (each)	Ambient	PD	LCPH ATI 5356 / PTO 5513-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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: 117

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
117	17FL211501	Flare	Natural Gas	0.005 mmcf/hr	17FL211501	Flare
	17PU210601	Railcar Loading	Denatured Ethanol	54,000 gallons/hr		
	95PU210801	Truck Loading	Denatured Ethanol	54,000 gallons/hr		
	95PRESSURETEST	Railcar Pressure Test	Denatured Ethanol	2 tests/hr		

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
117	VOC	5.456 lb/hr; 3.3 tpy	LCPH ATI 6275 / PTO 6076-R2
	Opacity	No VE	40 CFR §60.18(c)(1) LCPH ATI 6275 / PTO 6076-R2

Operational Limits & Requirements

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

Federal Standards

A. **New Source Performance Standards (NSPS):**

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCCO)	Federal Reference (40 CFR)
95PU210801 17PU210601	A	General Conditions	NA	10.9(2)	§60.1 – §60.19
	VV	Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006	NA	10.9(2)(40)	§60.480 – §60.489

- B. National Emission Standards for Hazardous Air Pollutants (NESHAP):
The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCCO)	Federal Reference (40 CFR)
95PU210801 17PU210601	A	General Conditions	NA	10.9(4)	§63.1 – §63.16
	6B	National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities	NA	10.9(4)(bbbbb)	§63.11080 – §63.11100

Authority for Requirement: LCPH ATI 6275 / PTO 6076-R2

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- B. The facility is limited to maximum production of 50,000,000 gallons of anhydrous alcohol per 12-month rolling period. The owner or operator shall record and calculate monthly and 12-month rolling totals of the amount of anhydrous alcohol loaded out.
- C. Total denaturant usage shall not exceed 15,000,000 gallons per 12-month rolling period. The owner or operator shall record and calculate monthly and 12-month rolling totals of the amount of denaturant loaded out.
- D. Total E85 loadout shall not exceed 23,400,000 gallons per 12-month rolling period. The owner or operator shall record and calculate the monthly and 12-month rolling totals of the amount of E85 loaded out.
- E. Daily gasoline throughput shall be less than 250,000 gallons per day. This shall be the amount of all gasoline and gasoline blends greater than 10% gasoline into cargo tanks. The owner or operator shall monitor and record the total daily amount of gasoline and gasoline blends loaded into cargo tanks.
- F. The owner or operator shall comply with the requirements of NSPS Subpart A (General Provisions; 40 CFR §60.1 through §60.19) to comply with LCCO 10.9(2).
- G. The owner or operator shall comply with the requirements of NSPS Subpart VV by meeting the standards of 40 CFR §60.482-1 through §60.485 to comply with LCCO 10.9(2)"a"(40).
- H. The owner or operator shall comply with the requirements of NESHAP Subpart A by meeting the standards of 40 CFR §63.1 through §63.16, as identified in Subpart BBBBBB, Table 3, referenced in 40 CFR §63.11082.
- I. The owner or operator shall comply with the requirements of NESHAP Subpart BBBBBB by meeting the standards of 40 CFR §63.11087 through §63.11092.
- J. The flare shall be designed and operated to meet the minimum requirements of 40 CFR §60.18(b) through §60.18(f).
- K. The flare shall use only natural gas or propane as auxiliary fuel.
- L. The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- M. The owner or operator shall comply with the notification and recordkeeping requirements of NSPS Subpart A, 40 CFR §60.7.
- N. The owner or operator shall comply with the recordkeeping requirements of NSPS Subpart VV, 40 CFR §60.486.
- O. The owner or operator shall comply with the reporting requirements of NSPS Subpart VV, 40 CFR §60.487.
- P. The owner or operator shall comply with the notification requirements of NESHAP Subpart BBBBBB, 40 CFR §63.11093.
- Q. The owner or operator shall comply with the recordkeeping requirements of NESHAP Subpart BBBBBB, 40 CFR §63.11094.

- R. The owner or operator shall comply with the reporting requirements of NESHAP Subpart BBBBBB, 40 CFR §63.11095.
- S. The owner or operator shall monitor the presence of the pilot flame and other parameters of the flare, according to the provisions of 40 CFR §60.18. Loadout operations shall be discontinued any time the pilot flame is out, as required in 40 CFR §60.18(e).

Authority for Requirement: LCPH ATI 6275 / PTO 6076-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
117	24	V	48	1,400	2,567	LCPH ATI 6275 / PTO 6076-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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

See Appendix C, Agency O&M Plans Summary.

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: 118, 119

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
118	13CT400001	Cooling Tower – Bldg 13	Water	840,000 gals/hr	13CT400001	Mist Eliminator
119	25CT400101	Cooling Tower – Bldg 25	Water	126,000 gals/hr	25CT400101	Mist Eliminator

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
118	PM/PM ₁₀	1.23 lb/hr	LCPH ATI 5262 / PTO 5947-R1	LCPH ATI 5262 / PTO 5947-R1 LCPH ATI 5263 / PTO 5948-R1
119		0.18 lb/hr	LCPH ATI 5263 / PTO 5948-R1	
118	Opacity	20%	LCO 10.7	
119	PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(1) LCO 10.9(1)"a"	

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- B. Water treatment chemicals containing chromium (Cr) shall not be used in this emission unit.
- C. The Total Dissolved Solids (TDS) concentration in the cooling water shall not exceed 3,500 parts per million, by weight (3,500 mg/L), for any single sampling event.
- D. The owner or operator shall continuously monitor conductivity of the water in the emission unit.
- E. The owner or operator shall monitor and record the TDS in the cooling water at least once per month the cooling tower is in operation.
- F. The owner or operator shall maintain records of the manufacturer’s design guarantee.
- G. The owner or operator shall maintain Safety Data Sheets for all water treatment chemicals used in this emission unit.

Authority for Requirement: LCPH ATI 5262 / PTO 5947-R1; LCPH ATI 5263 / PTO 5948-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
118	35	V	288 per cell (2 cells total)	85	1,353,656	LCPH ATI 5262 / PTO 5947-R1
119	69	V	144	85	206,630	LCPH ATI 5263 / PTO 5948-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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: 121

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
121	85S01	Soda Ash Storage Bin	Sodium Carbonate	4.82 tph	85Y01	BH-BV

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
121	PM	0.1 gr/scf	LCO 10.9(1)"a"	LCPH ATI 2233 / PTO 2813-R2
	PM/PM ₁₀	0.63 lb/hr		
	Opacity	20%	LCO 10.7	

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment.
- B. The normal differential pressure across the baghouse shall be maintained between 0.1" and 8.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.
- C. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.

Authority for Requirement: LCPH ATI 2233 / PTO 2813-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
121	70	H	6	70	1,493	LCPH ATI 2233 / PTO 2813-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary

Authority for Requirement: 567 IAC 22.108(14)

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: 122

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
122	25- VACUUMPUMPS	Vacuum Pumps	Air/Filtrate Water	143 lb/hr	--	--

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
122	SO ₂	500 ppm _v	LCO 10.12(2) 567 IAC 23.3(3)"e"	LCPH ATI 5992 / PTO 5938-R1
	VOC	0.07 lb/hr		

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
122	64	D	3	120	70	LCPH ATI 5992 / PTO 5938-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

The following emission units exhaust through EP-122:

EU ID	Description	Rated Capacity
25PU130102	Vacuum Pump, Cooked Mash Condenser	54 lb/hr
25PU130202	Vacuum Pump, Sacch Prep Condenser	35 lb/hr
25PU135102	Vacuum Pump, LSW Condenser	54 lb/hr

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: 206, 207

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
206	16BL71601	Vacuum System – Bldg 16	Corn By-Products	105 tph	16BH66003	BH-FR
207	16-CONVEY&LOAD	House Dust Collector – Convey/Load/Transfer	Corn By-Products	30 tph	16BH71601	BH-DC

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
206	PM/PM ₁₀	0.16 lb/hr	LCPH ATI 5872 / PTO 5646-R1	LCPH ATI 5872 / PTO 5646-R1 LCPH ATI 5873 / PTO 5647-R1
207		2.41 lb/hr	LCPH ATI 5873 / PTO 5647-R1	
206	Opacity	20%	LCO 10.7	
207	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- C. The normal differential pressure across the baghouse shall be maintained between 0.4" and 8.0" of water column¹ (**EP206**). The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.
- D. The normal differential pressure across the baghouse shall be maintained between 0.6" and 9.0" of water column¹ (**EP207**). The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly² basis.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.*

² *CAM requirements in Appendix B requires the differential pressure to be monitored and recorded on a daily basis.*
 Authority for Requirement: LCPH ATI 5872 / PTO 5646-R1; LCPH ATI 5873 / PTO 5647-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
206	97.2	V	8	180	2,319	LCPH ATI 5872 / PTO 5646-R1
207	107	V	37.08	90	30,015	LCPH ATI 5873 / PTO 5647-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
Authority for Requirement: 567 IAC 22.108(14)

Stack Testing

See Appendix E, Stack Testing Summary (**EP207 only**)
Authority for Requirement – 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required?⁽¹⁾ Yes No
See Appendix B, CAM Plans Summary. (**EP 207 only**)

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 241

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
241	04-STEEPS&MILL	Steep & Surge Tanks & Millhouse Tanks	Steeped Corn	130 tph (111,000 BPD)	04SR70402	Scrubber - Alkaline
					04SR070403	Scrubber - Water

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
241	SO ₂	500 ppm _v	LCO 10.12(2) 567 IAC 23.3(3)"e"	LCPH ATI 6098 / PTO 5919-R1
		0.55 lb/hr		
	VOC	8.42 lb/hr		

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment (CE04SR70402 and CE04SR070403) on this emission unit shall be maintained according to the manufacturer’s specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- B. The recirculation water flow rate in the alkaline scrubber (CE04SR70402) shall be ≥ 270 gpm. The owner or operator shall monitor and record the recirculation water flow rate in the alkaline scrubber (CE04SR70402) on a daily basis.
- C. The pH of the scrubbing liquid in the alkaline scrubber (CE04SR70402) shall be ≥ 11.8 . The owner or operator shall monitor and record the pH of the scrubbing liquid in the alkaline scrubber (CE04SR70402) on a daily basis.
- D. The normal differential pressure across the alkaline scrubber (CE04SR70402) shall be maintained between 0.5" to 6.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the alkaline scrubber (CE04SR70402) on a daily basis.
- E. The fresh water flow rate in the wet scrubber (CE04SR070403) shall be ≥ 85 gpm. The owner or operator shall monitor and record the fresh water flow rate in the wet scrubber (CE04SR070403) on a daily basis.
- F. The normal differential pressure across the wet scrubber (CE04SR070403) shall be maintained between 0.5" to 7.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the wet scrubber (CE04SR070403) on a daily basis.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of control equipment.*

Authority for Requirement: LCPH ATI 6098 / PTO 5919-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
241	79.2	V	42	80	21,000	LCPH ATI 6098 / PTO 5919-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

The following emission units exhaust through EP-241:

EU ID	Emission Unit Description	EU ID	Emission Unit Description
EU03TK10101	#1 Steep tank	EU04TK30503	#2 Light steepwater tank
EU03TK10201	#2 Steep tank	EU04TK30504	#3 Light steepwater tank
EU03TK10301	#3 Steep tank	EU04TK14502	North mill starch tank
EU03TK10401	#4 Steep tank	EU04TK14503	South mill starch tank
EU03TK10501	#5 Steep tank	EU04TK30003	Bldg 4 process water tank
EU03TK10601	#6 Steep tank	EU04TK51001	Heavy gluten surge tank
EU03TK10701	#7 Steep tank	EU04TK60003	North fiber surge tank
EU03TK10801	#8 Steep tank	EU04TK60004	South fiber surge tank
EU03TK10901	#9 Steep tank	EU04TK012701	Cracked corn steep tank
EU03TK11001	#10 Steep tank	EU04TK14001	Sluice tank
EU03TK11701	#17 Steep tank	EU04TK14002	Corn tank
EU03TK11801	#18 Steep tank	EU04TK15001	First grind tank
EU03TK11901	#19 Steep tank	EU04TK17001	Second grind tank
EU03TK12001	#20 Steep tank	EU04TK20001	Fiberwash tank
EU03TK12101	#21 Steep tank	EU04TK40001	Germ filtrate tank
EU03TK12201	#22 Steep tank	EU04TK21001	Mill starch transfer tank
EU03TK12301	#23 Steep tank	EU04TK21002	Mill starch surge tank
EU03TK12401	#24 Steep tank	EU04TK60001	Fiber transfer tank
EU03TK12501	#25 Steep tank	EU04GM19001	#1 Third grind discharge
EU03TK12601	#26 Steep tank	EU04GM19002	#2 Third grind discharge
EU03TK30501	Large light steepwater tank	EU04GM19003	#3 Third grind discharge
EU04TK30502	#1 Light steepwater tank	EU04GM19004	#4 Third grind discharge

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

See Appendix B, CAM Plans Summary.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 251

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
251	05-GLUTF&VETP	Gluten Filters & Vetter Presses	Corn By-Products	44 tph (112,000 BPD)	05SR54001	Scrubber - Alkaline

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
251	SO ₂	500 ppm _v	LCO 10.12(2) 567 IAC 23.3(3)"e"	LCPH ATI 6086 / PTO 5924-R1
		0.08 lb/hr		

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- B. The normal differential pressure across the scrubber shall be maintained between 0.4" and 9.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the scrubber on a weekly basis.
- C. The recirculation water flow rate in the scrubber shall be ≥ 135 gpm. The owner or operator shall monitor and record the recirculation water flow rate in the scrubber on a weekly basis.
- D. The pH of the scrubbing liquid in the scrubber shall be ≥ 11 standard units. The owner or operator shall monitor and record the pH of the scrubbing liquid on a weekly basis.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.*

Authority for Requirement: LCPH ATI 6086 / PTO 5924-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
251	65.9	V	29	100	19,981	LCPH ATI 6086 / PTO 5924-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

The following emission units exhaust through EP-251:

EU ID	Emission Unit Description	Maximum Rated Capacity
05FR52101	#1 Gluten Filter Hood	44 tons/hr 112,000 bu/day
05FR52201	#2 Gluten Filter Hood	
05FR52301	#3 Gluten Filter Hood	
05FR52401	#4 Gluten Filter Hood	
05FR52501	#5 Gluten Filter Hood	
05FR52701	#6 Gluten Filter Hood	
05PR61001	#1 Vetter Press	
05PR61002	#2 Vetter Press	
05PR61003	#3 Vetter Press	
05PR61004	#4 Vetter Press	
05PR61005	#5 Vetter Press	
05PR61006	#6 Vetter Press	
05PR61007	#7 Vetter Press	
05CN60001	Spinner Discharge Conveyor	

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

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
255	05BL53001	Pneumatic System – Gluten Meal Recycle	Corn Gluten Meal	4.3 tph	05BH53001	BH-FR

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
255	PM/PM ₁₀	0.05 lb/hr		LCPH ATI 5269 / PTO 5935-R1
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/scf	567 IAC 23.4(7) LCO 10.9(1)"g"	

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- C. The normal differential pressure across the baghouse shall be maintained between 0.4" and 8.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.*

Authority for Requirement: LCPH ATI 5269 / PTO 5935-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
255	57	V	6	180	690	LCPH ATI 5269 / PTO 5935-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
Authority for Requirement: 567 IAC 22.108(14)

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: 260

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
260	05DR042006	Germ Rotary Tube Dryer #6	Germ	5.8 tph water removed (evaporation rate)	05CY042008	Cyclone
					05SR042007	Scrubber - Alkaline

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement	
260	PM/PM ₁₀	1.63 lb/hr; 33.5 tpy ¹	LCO 10.12(2) 567 IAC 23.3(3)"e"	LCPH ATI 6281 / PTO 6147-R2	
	PM _{2.5}	33.5 tpy ¹			
	SO ₂	500 ppm _v			
		2.81 lb/hr; 82.9 tpy ¹			
	VOC	8.7 lb/hr			
	Opacity	20%			LCO 10.7
	PM	0.1 gr/scf			567 IAC 23.4(7) LCO 10.9(1)"g"

¹ This emission rate applies to the combined emissions of EP260, EP261, EP262, EP263, EP264, and EP265 to remain 'minor' for PSD.

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- C. The normal differential pressure across the venturi scrubber (CE05SR042007) shall be maintained between 10" and 14" of water column¹. The owner or operator shall monitor and record the differential pressure across the scrubber cyclone (CE05SR042008) on a weekly basis.
- D. The recirculation flow rate in the venturi scrubber (CE05SR042007) shall be ≥ 105 gpm. The owner or operator shall monitor and record the recirculation flow rate in the scrubber on a weekly basis.
- E. The pH of the scrubbing liquid in the venturi scrubber (CE05SR042007) shall be ≥ 7 standard units. The owner or operator shall monitor and record the pH of the scrubbing liquid in the scrubber on a weekly² basis.
- F. The fresh water flow rate in the venturi scrubber (CE05SR042007) shall be ≥ 10 gpm on a 3-hour average. The owner or operator shall monitor and record the fresh water flow rate scrubber on a weekly basis.
- G. The owner or operator shall monitor and record the number of hours the dryer is operated each month.
- H. The owner or operator shall calculate and record the monthly total and 12-month rolling total emissions for PM, PM₁₀, PM_{2.5}, and SO₂ from EP260, EP261, EP262, EP263, EP264, and EP265.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.

² CAM requirements in Appendix B requires the pH to be monitored and recorded on a daily basis.

Authority for Requirement: LCPH ATI 6281 / PTO 6147-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
260	68	V	36	170	14,100	LCPH ATI 6281 / PTO 6147-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

See Appendix B, CAM Plans Summary. (SO₂ only)

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 261, 262, 263, 264

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
261	05DR42004	Germ Rotary Tue Dryer #4 – Cooling	Corn Germ	8.8 tph; 103,000 BPD	05CY42004	Cyclone
262	05DR42003	Germ Rotary Tube Dryer #3	Corn Germ	8.8 tph; 103,000 BPD	05CY42003	Cyclone
263	05DR42002	Germ Rotary Tube Dryer #2	Corn Germ	8.8 tph; 103,000 BPD	05CY42002	Cyclone
264	05DR42001	Germ Rotary Tube Dryer #1	Corn Germ	8.8 tph; 103,000 BPD	05CY42001	Cyclone

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
261 262	PM/PM ₁₀	2.0 lb/hr	LCPH ATI 6087 / PTO 5925-R2 LCPH ATI 6088 / PTO 5926-R2	
	PM/PM ₁₀	33.5 tpy ¹		
	PM _{2.5}	33.5 tpy ¹		
261 262	SO ₂	500 ppm _v	LCO 10.12(2) 567 IAC 23.3(3)"e"	LCPH ATI 6087 / PTO 5925-R2 LCPH ATI 6088 / PTO 5926-R2
263 264		82.9 tpy ¹		LCPH ATI 6089 / PTO 5927-R2 LCPH ATI 6090 / PTO 528-R2
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/scf	567 IAC 23.4(7) LCO 10.9(1)"g"	

¹ This emission rate applies to the combined emissions of EP260, EP261, EP262, EP263, EP264, and EP265 to remain 'minor' for PSD.

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. The control equipment on his unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- C. The normal differential pressure across the cyclone shall be maintained between 0.1" and 6.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the cyclone on a weekly basis.
- D. The owner or operator shall monitor and record the number of hours the dryer is operated each month.
- E. The owner or operator shall calculate and record the monthly total and 12-month rolling total emissions for PM, PM₁₀, PM_{2.5}, and SO₂ from EP260, EP261, EP262, EP263, EP264, and EP265.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.

Authority for Requirement: LCPH ATI 6087 / PTO 5925-R2; LCPH ATI 6088 / PTO 5926-R2
LCPH ATI 6089 / PTO 5927-R2; LCPH ATI 6090 / PTO 5930-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
261	68.1	V	28	100	5,000	LCPH ATI 6087 / PTO 5925-R2
262	68.1	V	28	170	5,000	LCPH ATI 6088 / PTO 5926-R2
263	68.1	V	28	170	5,000	LCH ATI 6089 / PTO 5927-R2
264	68.1	V	28	170	5,000	LCPH ATI 6090 / PTO 5928-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
Authority for Requirement: 567 IAC 22.108(14)

Stack Testing

See Appendix E, Stack Testing Summary
Authority for Requirement – 567 IAC 22.108(3)

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: 265

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
265	05DR42005	Germ Predryer	Corn Germ	8.63 tph; 101,000 BPD	05CY42005	Cyclone 1
	05MS42001	Germ Predryer Burner	Natural Gas	33.75 MMBtu/hr	05CY42006 05CY42007	Cyclone 2 Cyclone 3

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.

BACT Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
265	PM/PM ₁₀ ^{1,2}	0.015 gr/dscf; 2.66 lb/hr	DNR PSD 03-A-097-P1
	Opacity	No Visible Emissions	LCPH ATI 6091 / PTO 5929-R2

¹ The emission limit is expressed as filterable PM only per original PSD Project 90-249.

² Particulate matter was assumed to be 100% PM₁₀ in original PSD Project 90-249.

Other Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
265	PM/PM ₁₀ ¹	3.34 lb/hr		DNR PSD 03-A-097-P1 LCPH ATI 6091 / PTO 5929-R2
	NO _x	100 lb/MMscf		
	SO ₂	8.7 lb/hr		
		500 ppm _v		
	Opacity	40%	567 IAC 22.3(2)"d"	
	PM	0.1 gr/dscf	567 IAC 23.4(7)	
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/dscf	LCO 10.9(1)"g"	LCPH ATI 6091 / PTO 5929-R2
SO ₂	500 ppm _v	LCO 10.12(2)		

¹ The emission limit is expressed as total PM (Filterable and Condensable).

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The Germ Predryer Burner (EU05MS42001) shall not combust more than 251.30 MMscf of natural gas per twelve-month rolling period. The owner or operator shall record natural gas usage (units of MMscf/month) for EU05MS42001 on a monthly and 12-month rolling total basis.
- B. The owner or operator shall check for visible emissions from the Cyclones (CE05CY42005 – CE05CY42007) once per day at a time when the Germ Predryer (05DR42005) is being operated. The owner or operator shall record the date of the observation and the presence or absence of visible emissions. If the owner or operator observes visible emissions from the Cyclones (CE05CY42005-CE05CY42007), the owner or operator shall investigate the emission unit, control equipment or operations associated with the emission unit and make corrections to the associated operations or equipment. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the Germ Predryer (EU05DR42005) is not operated.

- C. The normal static pressure drop across each cyclone (CE05CY42005 – CE05CY42007) shall be maintained between 7.0" and 15" of water column.¹
- 1) The owner or operator shall record the static pressure drop across each cyclone (CE05CY42005, CE05CY42006, and CE05CY42007) on a daily basis.
- D. The owner or operator shall properly operate and maintain equipment to monitor the static pressure drop across each cyclone (CE05CY42005, CE05CY42006, and CE05CY42007). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plans.
- 1) The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the Cyclones (CE05CY42005, CE05CY42006, and CE05CY42007).

¹If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not apply during periods of startup, shutdown, or cleaning of the control equipment.

Authority for Requirement: DNR PSD 03-A-097-P1; LCPH ATI 6091 / PTO 5929-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (dscfm)	Authority for Requirement
265	90	V	60	153	41,000	DNR PSD 03-A-097-P1 LCPH ATI 6091 / PTO 5929-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
 Authority for Requirement: 567 IAC 22.108(14)

Stack Testing

See Appendix E, Stack Testing Summary
 Authority for Requirement – 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

See Appendix B, CAM Plans Summary.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 271

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
271	05VP52701	Vacuum Pump - #6 Gluten Filter	Air/Filtrate Water	0.88 tph	--	--

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
271	PM/PM ₁₀	0.06 lb/hr		LCPH ATI 5073 / PTO 5936-R3
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCO 10.12(2)	
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. Refer to the EP094 Facility VOC/HAP Bubble Permit, Attachment A for the operating limits and recordkeeping requirements of this emission point.

Authority for Requirement: LCPH ATI 6091 / PTO 5929

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
271	52	V	6	118	1,000	LCPH ATI 5073 / PTO 5936-R3

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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: 275

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
275	70DR54001	Gluten Meal Dryer	Corn Gluten Meal	6.1 tph; 101,000 BPD	70SR54001	Scrubber
	70MS54001	Gluten Meal Dryer Burner	Natural Gas	40 MMBtu/hr		

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.

BACT Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
275	PM/PM ₁₀ ^{1,2}	0.03 gr/dscf; 14.51 lb/hr	DNR PSD 03-A-098-P1 LCPH ATI 6091 / PTO 5930-R2
	Opacity	No Visible Emissions	

¹ The emission limit is expressed as filterable PM only per original PSD Project 90-249.

² Particulate matter was assumed to be 100% PM₁₀ in original PSD Project 90-249.

Other Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
275	PM/PM ₁₀ ¹	2.7 lb/hr	567 IAC 23.3(3)"e"	DNR PSD 03-A-098-P1 LCPH ATI 6091 / PTO 5930-R2
	NO _x	100 lb/MMscf		
	SO ₂	6.5 lb/hr		
		500 ppm _v		
	Opacity	40%	567 IAC 22.3(2)"d"	
	PM	0.1 gr/dscf	567 IAC 23.4(7)	
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/dscf	LCO 10.9(1)"g"	LCPH ATI 6091 / PTO 5930-R2
SO ₂	500 ppm _v	LCO 10.12(2)		

¹ The emission limit is expressed as total PM (Filterable and Condensable).

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The Gluten Meal Burner (EU70MS54001) shall not combust more than 300 MMscf of natural gas per twelve-month rolling period. The owner or operator shall record natural gas usage (units of MMscf/month) for EU70MS54001 on a monthly and 12-month rolling total basis.
- B. The owner or operator shall check for visible emissions from the Scrubber (CE70SR54001) once per day at a time when the Gluten Meal Dryer (EU70DR54001) is being operated. The owner or operator shall record the date of the observation and the presence or absence of visible emissions. If the owner or operator observes visible emissions from the Scrubber (CE70SR54001), the owner or operator shall investigate the emission unit, control equipment or operations associated with the emission unit and make corrections to the associated operations or equipment. The owner or operator shall maintain a record of all corrective actions taken. This requirement shall not apply on the days that the Gluten Meal Dryer (EU70DR54001) is not operated.

- C. The differential pressure drop across the scrubber (CE70SR54001) shall be maintained between 6.0" and 18" of water column.¹
 - 1) The owner or operator shall record the differential pressure drop across the Scrubber (CE70SR54001) on a daily basis.
- D. The Scrubber (CE70SR54001) recirculation flowrate shall be maintained at a rate ≥ 270 gallons per minute.
 - 1) The owner or operator shall record the water flow to the Scrubber (CE70SR54001) on a daily basis.
- E. The pH of the scrubbing liquid shall be maintained > 5.6 .¹
 - 1) The owner or operator shall monitor and record the pH of the scrubbing liquid on a daily basis.
- F. The addition of no less than 2 gallons per minute of steepwater shall be added at all times the Gluten Meal Dryer (EU70DR54001) is operating.
 - 1) The owner or operator shall monitor and record the amount of steepwater added on a daily basis.
- G. A spin sample shall be taken from the scrubber recycle water once every eight (8) hours. Solids in the scrubber recycle water after centrifuging shall not exceed 1.2 mL per 15 mL sample, or eight percent (8%) solids. If there is an exceedance of the solids content in the recycle water, documentation shall be retained showing the corrective actions taken.
 - 1) The owner or operator shall monitor and record the scrubber water solids content on a daily basis.
- H. The owner or operator shall properly operate and maintain equipment to monitor, the differential pressure drop across, the recirculation flowrate, and the pH of the Scrubber (CE70SR54001). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plans.
 - 1) The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the Scrubber (CE70SR54001).

¹If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not apply during periods of startup, shutdown, or cleaning of the control equipment.

Authority for Requirement: DNR PSD 03-A-098-P1; LCPH ATI 6092 / PTO 5930-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (dscfm)	Authority for Requirement
275	117	V	57	123	41,000	DNR PSD 03-A-098 LCPH ATI 6092 / PTO 5930-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
 Authority for Requirement: 567 IAC 22.108(14)

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

See Appendix B, CAM Plans Summary.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 279

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
279	05-PROCESS-TKS	Bldg 05 Process Tanks	Corn Wet Milled Products	135 tph; 112,000 BPD	05SR04650	Scrubber - Alkaline

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
279	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCO 10.12(2)	LCPH ATI 6601 / PTO 6439-R1
		0.4 lb/hr		

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- B. The normal differential pressure across the scrubber shall be maintained between 0.1" and 7.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the scrubber on a weekly basis.
- C. The recirculation water flow rate in the scrubber shall be ≥ 125 gpm. The owner or operator shall monitor and record the recirculation water flow rate in the scrubber on a weekly basis.
- D. The pH of the scrubbing liquid shall be ≥ 9.0 standard units¹. The owner or operator shall monitor and record the pH of the scrubbing liquid on the weekly basis.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning the control equipment.*

Authority for Requirement: LCPH ATI 6601 / PTO 6439-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
279	61.5	V	28	85	6,500	LCPH ATI 6601 / PTO 6439-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

The following emission units exhaust through EP-279:

EU ID	Emission Unit Description	Maximum Rated Capacity
05TK08101	Cooling Water Return Tank	135 tons/hr 112,000 bu/day
05TK20001	Fiber Filtrate Tank	
05TK21001	Dorrclone Feed Tank	
05TK21002	Dorrclone Wash Water Tank	
05TK22001	SPS Feed Tank	
05TK27001	Finished Starch Tank	
05TK28001	Clarified Feed Tank	
05TK28002	Clarified O/F Tank	
05TK28003	Clarified U/F Tank	
05TK30001	Bldg 5 Process Water Tank	
05TK30002	GT Overflow Tank	
05TK50001	Light Gluten Tank	
05TK51001	Heavy Gluten Tank	
28TK031004	Hotwell Tanks	
--	Germ Conveyor Hoods	
05TK52001	Gluten Filtrate Tank	

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: 285

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
285	58-CORNCONVEY	Corn Unload & Handling	Corn Cleanings	135 tph; 112,000 BPD	58BH003210	BH-DC

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
285	PM/PM ₁₀	3.32 lb/hr		LCPH ATI 6094 / PTO 5932-R2
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- C. The normal differential pressure across the baghouse shall be maintained between 0.4" and 9.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of control equipment.*

Authority for Requirement: LCPH ATI 6094 / PTO 5932-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
285	106.5	V	60	70	49,385	LCPH ATI 6094 / PTO 5932-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary.
Authority for Requirement: 567 IAC 22.108(14)

Stack Testing

See Appendix E, Stack Testing Summary
Authority for Requirement – 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

See Appendix B, CAM Plans Summary.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 290

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
290	08TANKS	Starch Slurry Tanks – Bldg 8	Starch Slurry	600 gpm starch slurry/hr	08Q01	Scrubber

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
290	SO ₂	1.0 lb/hr	567 IAC 23.3(3)"e" LCO 10.12(2)	LCPH ATI 6442 / PTO 6214-R1
		500 ppm _v		

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- B. The fresh water flow rate in the scrubber shall be maintained ≥ 1 liter per minute¹. The owner or operator shall monitor and record the fresh water flow rate in the scrubber on a weekly basis.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.

Authority for Requirement: LCPH ATI 6442 / PTO 6214-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
290	37	H	18	100	997	LCPH ATI 6442 / PTO 6214-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

The following emission units exhaust through EP-290:

EU ID	Emission Unit Description	Maximum Rated Capacity
08T01A	Starch Slurry Tank A	600 gpm
08T01B	Starch Slurry Tank B	600 gpm
08T01C	Starch Slurry Tank C	600 gpm
08TK410401	Starch Slurry Tank D	600 gpm
08TK410501	Starch Slurry Tank E	600 gpm

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: 294, 325

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
294	58W22	Vacuum System – Bldg 58	Corn By-Products	135 tph; 112,000 BPD	58BH003201	BH-FR
325	25BD171601	Starch Reslurry – Bldg 25	Starch Slurry	20 tph	25BH171901	BH-DC

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
294	PM/PM ₁₀	0.04 lb/hr	LCPH ATI 6096 / PTO 5934-R1	LCPH ATI 6096 / PTO 5934-R1 LCPH ATI 6312 / PTO 6101-R1
325		0.26 lb/hr	LCPH ATI 6312 / PTO 6101-R1	
294	Opacity	20%	LCO 10.7	
325	PM	0.1 gr/scf	567 IAC 23.4(7) LCO 10.9(1)"g"	

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- C. The normal differential pressure across the baghouse shall be maintained between 0.4" and 8.0" of water column¹ (**EP294**). The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.
- D. The normal differential pressure across the baghouse shall be maintained between 0.1" and 8.0" of water column¹ (**EP325**). The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.

Authority for Requirement: LCPH ATI 6096 / PTO 5934-R1; LCPH ATI 6312 / PTO 6101-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
294	25	H	6	180	601	LCPH ATI 6096 / PTO 5934-R1
325	29.5	V	14	110	1,500	LCPH ATI 6312 / PTO 6101-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

The following emission units exhaust through EP-325:

EU ID	Emission Unit Description	Maximum Rated Capacity
25BD171601	Supersack Bag Dump Station	20 tons/hr
25TK171601	Reslurry Tank	2,500 gallons

Monitoring Requirements

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

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
Authority for Requirement: 567 IAC 22.108(14)

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: 400 CAP (60, 273, 415, 416, 417, 422, 424, 426, 428, 574, 750)

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
60	57BN526001	Surge Bin	Starch	20 tons/hr	57BH526001	BH-BV
273	70BH54003	Gluten Blower DC	Starch	6.1 tons/hr	70BH54003	BH-BV
415	69S13	A Bin	Starch	150 tons/hr	69Y13	BH-BV
416	69S14	B Bin	Starch	150 tons/hr	69Y14	BH-BV
417	69S15	C Bin	Starch	150 tons/hr	69Y15	BH-BV
422	69BN490201	Storage Bin #2	Starch	45 tons/hr	69Y02S	BH-BV
424	69BN490401	Storage Bin #4	Starch	45 tons/hr	69Y04	BH-BV
426	69BN490601	Storage Bin #6	Starch	45 tons/hr	69Y06	BH-BV
428	69BN490801	Storage Bin #8	Starch	45 tons/hr	69Y08	BH-BV
574	69TK099301	Sodium Sulfate Mix Tank	Sodium Sulfate, Starch	10,000 gallons	69FR099303	Furnace Filter
750	67TANKS	Starch Reslurry – Bldg 67A	Starch	3 tons/hr	67SR610801	Rotoclone

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
60 273	Opacity	No VE	LCO 10.5(3)"b"	LCPH ATI 6502 / PTO 6306-R1 LCPH ATI 6817 / PTO 6584
415 416	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	
417 422				
424 426				
428 574				
750	PM/PM ₁₀	0.01 lb/hr	LCPH ATI 6502 / PTO 6306-R1	
60		0.02 lb/hr	LCPH ATI 6817 / PTO 6584	
273		0.21 lb/hr		
415		0.21 lb/hr		
416		0.21 lb/hr		
417		0.21 lb/hr		
422		0.21 lb/hr		
424		0.21 lb/hr		
426		0.21 lb/hr		
428		0.21 lb/hr		
574		0.01 lb/hr		
750	0.01 lb/hr			

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment.
- B. The normal differential pressure across each baghouse shall be maintained between 0.1" and 8.0" of water column¹. With the exception of EP273, the owner or operator shall monitor and record the differential pressure across each baghouse on a weekly basis.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.*

Authority for Requirement: LCPH ATI 6502 / PTO 6306-R1; LCPH ATI 6817 / PTO 6584

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
60	--	Indoor	--	--	160 scfm	LCPH ATI 6502 / PTO 6306-R1
273	--	Indoor	--	--	50 scfm	LCPH ATI 6817 / PTO 6584
415	--	Indoor	--	--	500 scfm	
416	--	Indoor	--	--	500 scfm	
417	--	Indoor	--	--	500 scfm	
422	--	Indoor	--	--	500 scfm	
424	--	Indoor	--	--	500 scfm	
426	--	Indoor	--	--	500 scfm	
428	--	Indoor	--	--	500 scfm	
574	--	Indoor	--	--	100 scfm	
750	--	Indoor	--	--	2,000 scfm	

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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: 403, 404, 407, 409, 413, 414, 421, 423, 425, 427, 429, 430, 431

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
403	69Z02	Blender #2	Starch	25 tph	69Y02B	BH-DC
404	69Z482501	Blender #1	Starch	25 tph	69BH482501	BH-DC
407	69-LOADOUTMID	Bulk Loadout – Middle	Starch	25 tph	69Y03	BH-DC
409	69W11	Pneumatic System – Dryer #11	Starch	21.5 tph	69Y11A	BH-FR
413	69W02	Pneumatic System – Blender #2 & Finish Bins	Starch	25 tph	69Y02A	BH-FR
414	69Z11	Scalping Reel – Dryer 11	Starch	6 tph	69Y11B	BH-DC
421	69BN490101	Storage Bin #1	Starch	25 tph	69BH490101	BH-BV
423	69BN490301	Storage Bin #3	Starch	25 tph	69BH490301	BH-BV
425	69BN490501	Storage Bin #5	Starch	25 tph	69BH490501	BH-BV
427	69BN490701	Storage Bin #7	Starch	25 tph	69BH490701	BH-BV
429	69BN490901	Storage Bin #9	Starch	25 tph	69BH490901	BH-BV
430	69BN491001	Storage Bin #10	Starch	25 tph	69BH491001	BH-BV
431	69BN491101	Storage Bin #11	Starch	25 tph	69BH491101	BH-BV

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.

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement		
403	Opacity	20%	LCO 10.7	LCPH ATI 5305 / PTO 5281-R1		
404				LCPH ATI 4356 / PTO 4451-R2		
407				LCPH ATI 5307 / PTO 5283-R1		
409				LCPH ATI 5308 / PTO 5284-R1		
413				LCPH ATI 5309 / PTO 5285-R1		
414				LCPH ATI 5310 / PTO 5286-R1		
421				0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	LCPH ATI 3995 / PTO 3995-R2
423						LCPH ATI 3996 / PTO 3996-R2
425						LCPH ATI 3997 / PTO 3997-R2
427						LCPH ATI 3998 / PTO 3998-R2
429						LCPH ATI 3999 / PTO 3999-R2
430						LCPH ATI 4000 / PTO 4000-R2
431						LCPH ATI 4001 / PTO 4001-R2
403	PM/PM ₁₀	0.21 lb/hr	LCPH ATI 5305 / PTO 5281-R1			
404		0.12 lb/hr	LCPH ATI 4356 / PTO 4451-R2			
407		0.1 lb/hr	LCPH ATI 5307 / PTO 5283-R1			
409		0.08 lb/hr	LCPH ATI 5308 / PTO 5284-R1			
413		0.14 lb/hr	LCPH ATI 5309 / PTO 5285-R1			
414		0.09 lb/hr	LCPH ATI 5310 / PTO 5286-R1			
421		0.04 lb/hr	LCPH ATI 3995 / PTO 3995-R2			
423		0.04 lb/hr	LCPH ATI 3996 / PTO 3996-R2			
425		0.04 lb/hr	LCPH ATI 3997 / PTO 3997-R2			
427		0.04 lb/hr	LCPH ATI 3998 / PTO 3998-R2			
429		0.04 lb/hr	LCPH ATI 3999 / PTO 3999-R2			
430		0.04 lb/hr	LCPH ATI 4000 / PTO 4000-R2			
431		0.04 lb/hr	LCPH ATI 4001 / PTO 4001-R2			

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record corrective action taken.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- C. The normal differential pressure across the baghouse shall be maintained between 0.4" and 8.0" of water column¹ (**EP403, EP407, EP413, EP414**). The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.
- D. The normal differential pressure across the baghouse shall be maintained between 0.1" and 8.0" of water column¹ (**EP404, EP421, EP423, EP425, EP427, EP429, EP430, EP431**). The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not after 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.*

Authority for Requirement: LCPH ATI 5305 / PTO 5281-R1; LCPH ATI 4356 / PTO 4451-R2
LCPH ATI 5307 / PTO 5283-R1; LCPH ATI 5308 / PTO 5284-R1; LCPH ATI 5309 / PTO 5285-R1
LCPH ATI 5310 / PTO 5286-R1; LCPH ATI 3995 / PTO 3995-R2; LCPH ATI 3996 / PTO 3996-R2
LCPH ATI 3997 / PTO 3997-R2; LCPH ATI 3998 / PTO 3998-R2; LCPH ATI 3999 / PTO 3999-R2
LCPH ATI 4000 / PTO 4000-R2; LCPH ATI 4001 / PTO 4001-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
403	80.4	V	11	90	2,648	LCPH ATI 5305 / PTO 5281-R1
404	62.6	V	11	100	1,377 dscfm	LCPH ATI 4356 / PTO 4451-R2
407	76.2	V	6	90	1,194	LCPH ATI 5307 / PTO 5283-R1
409	67	H	6	180	1,126	LCPH ATI 5308 / PTO 5284-R1
413	69.1	H	8	180	2,011	LCPH ATI 5309 / PTO 5285-R1
414	82	H	5	90	1,129	LCPH ATI 5310 / PTO 5286-R1
421	69.2	V	7	90	500	LCPH ATI 3995 / PTO 3995-R2
423	69.2	V	7	90	500	LCPH ATI 3996 / PTO 3996-R2
425	69.2	V	7	90	500	LCPH ATI 3997 / PTO 3997-R2
427	69.2	V	7	90	500	LCPH ATI 3998 / PTO 3998-R2
429	77	V	6	90	500	LCPH ATI 3999 / PTO 3999-R2
430	73.7	V	6	90	500	LCPH ATI 4000 / PTO 4000-R2
431	77.5	V	6	90	500	LCPH ATI 4001 / PTO 4001-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary

Authority for Requirement: 567 IAC 22.108(14)

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: 446, 457

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
446	69D11	Dryer #11	Starch	6 tph	69HRU	Heat Reclaim Unit
457	69D12	Dryer #12	Starch	8 tph	69Q12	Scrubber

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
446	PM/PM ₁₀	6.0 lb/hr; 53 tpy ¹	LCPH ATI -- / PTO 1852-R2	LCPH ATI -- / PTO 1852-R2 LCPH ATI 3285 / PTO 3989-R3 LCPH ATI 6771-R1 /
457		2.07 lb/hr; 53 tpy ¹	LCPH ATI 3285 / PTO 3989-R3	
458		3.81 lb/hr; 53 tpy ¹	LCPH ATI 6771-R1 /	
446	Opacity	20%	LCO 10.7	
457	PM	0.1 gr/scf	567 IAC 23.4(7) LCO 10.9(1)"g"	

¹ This emission rate applies to the combined emissions of EP015, EP023, EP030, EP042, EP446, EP457, and EP458 to remain 'minor' for PSD.

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

(EP446)

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- C. The owner or operator shall monitor and record the number of hours the dryer is operated each month.
- D. The owner or operator shall monitor and record the monthly and 12-month rolling sum emissions for PM and PM₁₀ from EP015, EP023, EP030, EP042, EP446, EP457, and EP458.

Authority for Requirement: LCPH ATI -- / PTO 1852-R2

(EP457)

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- C. The normal differential pressure across the scrubber shall be maintained between 7.0" and 14.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the scrubber on a weekly basis.

- D. The scrubber water recycle rate shall be maintained ≥ 248 gpm. The owner or operator shall monitor and record the scrubber recycle rate on a weekly basis.
- E. A densitometer shall be installed to monitor the density (g/cc) of the scrubber recycle water. The densitometer readings shall not exceed 1.030 g/cc. The owner or operator shall monitor and record the densitometer readings on a weekly basis.
- F. The owner or operator shall monitor and record the number of hours the dryer is operated each month.
- G. The owner or operator shall monitor and record the monthly and 12-month rolling sum emissions for PM and PM₁₀ from EP015, EP023, EP030, EP042, EP446, EP457, and EP458.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.
 Authority for Requirement: LCPH ATI 3285 / PTO 3989-R3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
446	82	V	90 x 90	111	34,763	LCPH ATI -- / PTO 1852-R2
457	128.6	V	72	108	53,269	LCPH ATI 3285 / PTO 3989-R3

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
 Authority for Requirement: 567 IAC 22.108(14)

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: 460, 461, 463, 464, 465, 466, 467, 468, 469, 472, 473

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
460	69W22	Vacuum System – Bldg 69	Starch	1 tph	69Y22S	BH-FR
461	69Z12	Scalping Reel – Dryer #12	Starch	17.5 tph	69Y12B	BH-DC
463	69W12	Pneumatic System – Dryer #12 to Scalping Reel	Starch	17.5 tph	69Y12A	BH-FR
464	69W05	Pneumatic System – ABC Bins to Bldg 69	Starch	25 tph	69Y05	BH-FR
465	69W16	Pneumatic System – ABC Bins to Bulk Loadout	Starch	25 tph	69Y16	BH-FR
466	69W12A	Pneumatic System – Dryer #12 SR to Bins/Loadout	Starch	17.5 tph	69Y12C	BH-FR
467	69-LOADOUTEAST	Bulk Loadout – East	Starch	25 tph	69Y19	BH-DC
468	69-LOADOUTWEST	Bulk Loadout – West	Starch	25 tph	69Y20	BH-DC
469	69W01	Pneumatic System – Blender #1 & Finish Bins	Starch	25 tph	69Y01A	BH-FR
472	69K17A-B	Bulk Loadout Conveyor – North	Starch	25 tph	69Y17	BH-DC
473	69K18A-B	Bulk Loadout Conveyor – South	Starch	25 tph	69Y18	BH-DC

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.

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement			
460	Opacity	20%	LCO 10.7	LCPH ATI 3286 / PTO 3990-R2			
461				LCPH ATI 5311 / PTO 5287-R1			
463				LCPH ATI 5312 / PTO 5288-R1			
464				LCPH ATI 5313 / PTO 5289-R1			
465				LCPH ATI 5314 / PTO 5290-R1			
466				LCPH ATI 5315 / PTO 5291-R1			
467				LCPH ATI 5316 / PTO 5292-R1			
468				LCPH ATI 5317 / PTO 5293-R1			
469				LCPH ATI 5318 / PTO 5294-R1			
472				LCPH ATI 1424 / PTO 1281-R2			
473				LCPH ATI 1425 / PTO 1280-R2			
460				PM/PM ₁₀	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	0.09 lb/hr LCPH ATI 3286 / PTO 3990-R2
461							0.06 lb/hr LCPH ATI 5311 / PTO 5287-R1
463	0.15 lb/hr LCPH ATI 5312 / PTO 5288-R1						
464	0.15 lb/hr LCPH ATI 5313 / PTO 5289-R1						
465	0.15 lb/hr LCPH ATI 5314 / PTO 5290-R1						
466	0.09 lb/hr LCPH ATI 5315 / PTO 5291-R1						
467	0.12 lb/hr LCPH ATI 5316 / PTO 5292-R1						
468	0.12 lb/hr LCPH ATI 5317 / PTO 5293-R1						
469	0.16 lb/hr LCPH ATI 5318 / PTO 5294-R1						
472	0.4 lb/hr LCPH ATI 1424 / PTO 1281-R2						
473	0.4 lb/hr LCPH ATI 1425 / PTO 1280-R2						

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- C. The normal differential pressure across the baghouse shall be maintained between 0.1" and 8.0" of water column¹ (**EP460, EP472, EP473**). The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.
- D. The normal differential pressure across the baghouse shall be maintained between 0.4" and 8.0" of water column¹ (**EP461, EP463, EP464, EP465, EP466, EP469**). The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.
- E. The normal differential pressure across the baghouse shall be maintained between 0.1" and 7.0" of water column¹ (**EP467, EP468**). The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours after observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.*

Authority for Requirement: LCPH ATI 3286 / PTO 3990-R2; LCPH ATI 5311 / PTO 5287-R1

LCPH ATI 5312 / PTO 5288-R1; LCPH ATI 5313 / PTO 5289-R1; LCPH ATI 5314 / PTO 5290-R1

LCPH ATI 5315 / PTO 5291-R1; LCPH ATI 5316 / PTO 5292-R1; LCPH ATI 5317 / PTO 5293-R1

LCPH ATI 5318 / PTO 5294-R1; LCPH ATI 1424 / PTO 1281-R2; LCPH ATI 1425 / PTO 1280-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
460	69	VR	8	180	1,044	LCPH ATI 3286 / PTO 3990-R2
461	89	H	6	90	786	LCPH ATI 5311 / PTO 5287-R1
463	43.5	V	9	180	2,134	LCPH ATI 5312 / PTO 5288-R1
464	43.5	V	9	180	2,219	LCPH ATI 5313 / PTO 5289-R1
465	43.5	V	9	180	2,107	LCPH ATI 5314 / PTO 5290-R1
466	43.5	V	9	180	1,270	LCPH ATI 5315 / PTO 5291-R1
467	52.5	H	8	90	1,434	LCPH ATI 5316 / PTO 5292-R1
468	49.5	H	8	90	1,434	LCPH ATI 5317 / PTO 5293-R1
469	94	V	10	180	2,309	LCPH ATI 5318 / PTO 5294-R1
472	69.8	H	11	90	1,002	LCPH ATI 1424 / PTO 1281-R2
473	61.8	H	11	90	1,002	LCPH ATI 1425 / PTO 1280-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary

Authority for Requirement: 567 IAC 22.108(14)

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: 474

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
474	EU_TRANSLOAD	Starch Transload	Starch	30 tph	69FR498001	Sock Filter

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
474	PM/PM ₁₀	0.5 lb/hr; 1.20 tpy		LCPH ATI 6846 / PTO 6585
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/scf	567 IAC 23.4(7) LCO 10.9(1)"g"	

Operational Limits & Requirements

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

Operating Limits

- A. The control equipment shall be maintained according to the manufacturer’s specifications and good operating practices.
- B. The transloading process is limited to 3000 trucks per 12-month rolling period.
- C. Authority for Requirement: LCPH ATI 6846 / PTO 6585

Operating Condition Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis for trucks with a built-in dust collection system.
- B. The owner or operator shall record 'no visible emissions' observations with **each** truck transloading event for all other trucks.
- C. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- D. The owner or operator shall monitor and record the number of trucks starch is transloading into on a monthly and 12-month rolling period.

Authority for Requirement: LCPH ATI 6846 / PTO 6585

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
474		Varies by truck		Ambient	1,000	LCPH ATI 6846 / PTO 6585

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
Authority for Requirement: 567 IAC 22.108(14)

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: 476, 478 CAP

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
476	77TK440801	Bldg 96 Treating Tank 8	Starch Slurry	15 tons/hr	--	--
478	77TANKS	Tanks – Bldg 77 & Bldg 96	Starch Slurry	20 tons/hr	77Q10	Scrubber - Alkaline

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
476	PM/PM ₁₀	0.26 lb/hr		LCPH ATI 6980 / PTO 6760
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/scf	567 IAC 23.4(7) LCO 10.9(1)"g"	
478	SO ₂	0.02 lb/hr		LCPH ATI 6848 / PTO 6623
		500 ppm _v	567 IAC 23.3(3)"e" LCO 10.12(2)	

Alternative Operating Scenario Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
478	PM/PM ₁₀	0.86 lb/hr ¹		LCPH ATI 6848 / PTO 6623
	Opacity	20% ²	LCO 10.7	
	PM	0.1 gr/scf	567 IAC 23.4(7) LCO 10.9(1)"g"	

¹ This limit applies to EU77T01 (Treating Tank 1) during the starch batch re-slurry process.

² The opacity standard applies to all functional openings to Building 77 during the starch batch re-slurry process.

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by these permits shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for these permits shall be:

- A. CE-77Q10 shall be maintained according to manufacturer's specifications and good operating practices and must be operational during starch treatment only. The owner or operator shall maintain records of all maintenance completed on CE-77Q10.
- B. The normal differential pressure across CE-77Q10 shall be maintained between 0.2" and 6.0" of water column¹. The owner or operator shall record the differential pressure across CE-77Q10 on a weekly basis.
- C. The pH of the scrubbing liquid shall be maintained ≥ 8.5. The owner or operator shall record the pH of the scrubbing liquid on a weekly basis.
- D. The recirculation water flow rate in CE-77Q10 shall be maintained ≥ 50 gallons per minute. The owner or operator shall record the recirculation water flow rate in CE-77Q10 on a weekly basis.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This does not include periods of startup, shutdown or cleaning of the control equipment.

Authority for Requirement: LCPH ATI 6980 / PTO 6760; LCPH ATI 6848 / PTO 6623

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
476	28	H	12	180	600	LCPH ATI 6980 / PTO 6760
478	39	V	16	100	2,000	LCPH ATI 6848 / PTO 6623

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

The following emission unit exhausts through EP-476 during the starch reslurry process:

EU ID	EU Description	Rated Capacity
77TK440801	Bldg 96 Treating Tank 8	70,000 gallons (15 tons/hr dry starch reslurry)

The following emission units exhaust through EP-478 during the starch treatment process:

EU ID	EU Description	Rated Capacity
77T01	Bldg 77 Treating Tank 1	70,000 gallons (20 tons/hr dry starch addition)
77T02	Bldg 77 Treating Tank 2	70,000 gallons
77T03	Bldg 77 Treating Tank 3	70,000 gallons
77T04	Bldg 77 Treating Tank 4	70,000 gallons
77T05	Bldg 77 Treating Tank 5	70,000 gallons
77T06	Bldg 77 Treating Tank 6	70,000 gallons
77T07	Bldg 77 Treating Tank 7	70,000 gallons
77TK440801	Bldg 96 Treating Tank 8	70,000 gallons (15 tons/hr dry starch reslurry)

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: 477

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
477	69T19-39	Treating Tanks – Bldg 69 (21 tanks)	Starch Slurry	22,00 gallons each	69Q01	Scrubber - Alkaline

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
477	SO ₂	500 ppm _v	LCO 10.12(2) 567 IAC 23.3(3)"e"	LCPH ATI -- / PTO 1851-R2
		0.3 lb/hr		

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- B. The normal differential pressure across the scrubber shall be maintained between 0.1" and 8.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the scrubber on a weekly basis.
- C. The pH of the scrubbing liquid shall be maintained ≥ 8 standard units. The owner or operator shall monitor and record the pH of the scrubbing liquid on a weekly basis.
- D. The water recirculation flow rate shall be maintained ≥ 50 gpm. The owner or operator shall monitor and record the water recirculation flow rate in the scrubber on a weekly basis.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This does not include periods of startup, shutdown, or cleaning of the control equipment.*

Authority for Requirement: LCPH ATI -- / PTO 1851-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
477	75.4	V	14	100	3,500	LCPH ATI -- / PTO 1851-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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: 480

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
480	97-REACTORS-EO	EO Reactors	Starch Slurry	1 batch/hr per reactor	96Q01	Scrubber – Acid
	97-REACTORS-PO	PO Reactors				

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
480	PM	0.19 lb/hr		LCPH ATI 6837 / PTO 6586
	VOC	1 lb EO/batch; 2.1 lb PO/batch		
	SHAP	1 lb EO/batch; 2.1 lb PO/batch		
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/scf	567 IAC 23.4(7) LCO 10.9(1)"g"	

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. CE96Q01 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE96Q01.
- B. The recycled liquor flow rate in CE96Q01 shall be maintained at a minimum of 70 gpm. The owner or operator shall monitor and record the recycled liquor flow rate on a daily basis.
- C. The normal differential pressure across the fan shall be maintained between 0.2" and 2.0" of water column¹. The owner or operator shall record the differential pressure across the fan on a daily basis.
- D. The acid content of CE96Q01 must be maintained greater than or equal to 10% sulfuric acid (titration) any time that the batch tanks are vented. The owner or operator shall monitor and record the scrubber water acid content on a daily basis.
- E. This source shall be limited to a total of 7,300 starch batches calculated on a 12-month rolling total with no more than 1,500 being PO starch batches.
 - i. The owner or operator shall maintain the following monthly records:
 1. The number of EO batches produced and
 2. The number of PO batches produced and
 3. The rolling 12-month total of the number of PO batches produced and
 4. The rolling 12-month total of the total number of EO & PO batches produced.

¹ It is noted that the fan differential pressure will behave inversely with the scrubber differential pressure. Under certain conditions, the scrubber differential pressure will be high enough that the fan will drop below 0.2" of water column.

Authority for Requirement: LCPH ATI 6837 / PTO 6586

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
480	49	V	5.9	90	500	LCPH ATI 6837 / PTO 6586

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

The following emission units exhaust through EP-480:

EU ID	Tank ID	Emission Unit Description
EU-97-REACTORS-EO	97T01	Reactor 1
	97T02	Reactor 2
	97T03	Reactor 3
	97T04	Reactor 4
	97T08	Reactor 8
	--	Reactor 8 Sample Vent
EU-97-REACTORS-PO	96T06	Reactor 6
	--	Reactor 6 Sample Vent
	96T07	Reactor 7
	--	Reactor 7 Sample Vent
	96T08	Reactor 8
	--	Reactor 8 Sample Vent

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

See Appendix B, CAM Plans Summary.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 481

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
481	68T51-52	Treating Tanks – Bldg 68 (2 tanks)	Starch Slurry	70,000 gallons each	68Q20	Scrubber – Alkaline
	68T25	SBS Tank	SBS	8,200 gallon		

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement	
481	PM/PM ₁₀	0.86 lb/hr		LCPH ATI 162 / PTO 5950-R2	
	Opacity	20%	LCO 10.7		
	PM	0.1 gr/scf	567 IAC 23.3(2)"a"(1) LCO 10.9(1)"a"		
	SO ₂		0.20 lb/hr		
			500 ppm _v		567 IAC 23.3(3)"e" LCO 10.12(2)

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- B. The normal differential pressure across the scrubber shall be maintained between 0.1" and 8.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the scrubber on a weekly basis.
- C. The recirculation water flow rate in the scrubber shall be maintained \geq 60 gpm. The owner or operator shall monitor and record the recirculation water flow rate in the scrubber on a weekly basis.
- D. The pH of the scrubbing liquid shall be \geq 10 standard units. The owner or operator shall monitor and record the pH of the scrubbing liquid on a weekly basis.

Authority for Requirement: LCPH ATI 6162 / PTO 5950-R2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
481	71	V	20	100	2,000	LCPH ATI 6162 / PTO 5950-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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: 521, 522

Boiler 1 & Boiler 2 Table 1

EP	EU	EU Description	Fuel	Rated Capacity
521	65BO201001	Boiler #1	Natural Gas	185 MMBtu/hr
522	65BO202001	Boiler #2	Natural Gas	185 MMBtu/hr

Boiler 1 & Boiler 2 Table 2

EP	CE ID	CE Description	CEM
521	65BR201001	Low NO _x Burners/ & FGR	ME65AI201002B – NO _x /O ₂ ME65AI201003B - CO
522	65BR202001	Low NO _x Burners & FGR	ME65AI202002B – NO _x /O ₂ ME65AI202003B - CO

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.

NSPS Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
521	NO _x	0.10 lb/MMBtu ¹	567 IAC 23.3(2)"a"(1) LCO 10.9(1)"a"	LCPH ATI 5547 / PTO 5399-R1 LCPH ATI 5548 / PTO 5400-R1
522	SO ₂	0.32 lb/MMBtu ¹	567 IAC 23.3(3)"e" LCO 10.12(2)	

¹ This emission limit applies at all times, including periods of startup, shutdown, or malfunction (40 CFR §60.42b(g) and §60.44b(h)) and is determined on a 30-day rolling average basis.

Other Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
521 522	PM	0.2 lb/MMBtu	LCCO 10.8(2)"c"	LCPH ATI 5547 / PTO 5399-R1 LCPH ATI 5548 / PTO 5400-R1
	PM/PM ₁₀	1.48 lb/hr		
	Opacity	20%	LCO 10.7	
	NO _x	39.4 tpy		
	CO	90 tpy		
	PM	0.1 gr/scf	567 IAC 23.3(2)"a"(1) LCO 10.9(1)"a"	
	SO ₂	2.04 lb/hr; 17.8 tpy		
		500 ppm _v	567 IAC 23.3(3)"e" LCO 10.12(2)	

Operational Limits & Requirements

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

Federal Standards

A. New Source Performance Standards (NSPS):

The following subparts apply to the emission unit(s) in this permit:

EU ID	Subpart	Title	Type	Local Reference (LCCO)	Federal Reference (40 CFR)
65BO201001 65BO202001	A	General Conditions	NA	10.9(2)	§60.1 – §60.19
	Db	Industrial-Commercial-Institutional Steam Generating Units	185 MMBtu/hr	10.9(2)"a"(55)	§60.40b – §60.49b

Authority for Requirement: LCPH ATI 5547 / PTO 5399-R1; LCPH ATI 5548 / PTO 5400-R1

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall meet the standards of NSPS Subpart A (40 CFR §60.1 through §60.19) to comply with LCCO 10.9(2).
- B. The owner or operator shall meet the standards of NSPS Subpart Db (40 CFR §60.40b through §60.49b) to comply with LCCO 10.9(2)"a"(55).
- C. The owner or operator shall meet the testing and emission monitoring procedures of NSPS Subpart Db (40 CFR §60.45b through §60.48b) to comply with LCCO 10.9(2)"a"(55).
- D. The owner or operator shall comply with the recordkeeping and reporting requirements in accordance with NSPS Subpart Db (40 CFR §60.49b).
- E. Fuel in this boiler shall be limited to natural gas only. The owner or operator shall maintain fuel supplier certifications of the sulfur content of all fuels burned in the boiler, in accordance with NSPS Subpart Db (40 CFR §60.45b(k)).
- F. The owner or operator shall calculate and record the monthly and 12-month rolling sum emissions for NO_x and CO from EP521 and EP522.

Quarterly Report Requirements

The following information shall be submitted to this department by the 30th of each month for the previous quarter (January 30th, April 30th, July 30th, and October 30th):

1. In accordance with NSPS Subpart Db (40 CFR §60.49b(i)), a quarterly report containing the information recorded under 40 CFR §60.49b(g) shall be submitted.

Authority for Requirement: LCPH ATI 5547 / PTO 5399-R1; LCPH ATI 5548 / PTO 5400-R1

Continuous Emission Monitoring Systems (CEMS)

In accordance with NSPS Subpart Db (40 CFR §60.48b(b)), the facility shall install, calibrate, maintain, and operate a CEMS on EP521 and record the output of the system for measuring nitrogen oxides (NO_x) emissions discharged to the atmosphere. The system shall be designed to meet Subpart Db, Appendix B (Performance Specification 2). The specifications of Subpart Db (Quality Assurance Procedures) shall apply. This facility shall meet the requirements of Subpart Db (40 CFR §60.48b) for monitoring NO_x emissions.

In accordance with NSPS Subpart Db (40 CFR §60.48b(g)), the owner or operator of an applicable facility that has a heat input of 250 MMBtu/hr or less, and which has an annual capacity factor for natural gas having a nitrogen content of greater than 10% (0.10), shall comply with the provisions of paragraphs (b), (c), (d), (e)(2), (e)(3), and (f) of Subpart Db (40 CFR §60.48b).

In accordance with NSPS Subpart Db (40 CFR §60.48b(j)), units that burn only gaseous fuels with potential sulfur dioxide emission rates of 0.32 lb/MMBtu heat input or less are not required to conduct PM emissions monitoring if they maintain fuel supplier certifications of the sulfur content of the fuels burned.

The facility shall install, calibrate, maintain, and operate a CEMS on EP521 and record the output of the system for measuring carbon monoxide (CO) emissions discharged to the atmosphere. The system shall be designed to meet Subpart Db, Appendix B (Performance Specification 4A). The specifications of Appendix F (Quality Assurance Procedures) shall apply.

Authority for Requirement: LCPH ATI 5547 / PTO 5399-R1; LCPH ATI 5548 / PTO 5400-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
521	139	V	54	300	54,301	LCPH ATI 5547 / PTO 5399-R1
522	139	V	54	300	54,301	LCPH ATI 5548 / PTO 5400-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Compliance Testing

CEMS cylinder gas audit (CGA) and relative accuracy test audit (RATA) requirements within 40 CFR Appendix B (performance specifications) and Appendix F (Quality Assurance Procedures) satisfy the test requirements. No additional testing is required.

Authority for Requirement – 567 IAC 22.108(3)

Continuous Emissions Monitoring

Pollutant:	NO _x /O ₂	CO
Continuous Emissions Monitor ID:	ME65AI1201002B (EP521) ME65AI202002B (EP522)	ME65AI201003B (EP521) ME65AI202003 (EP522)
Operational Specifications:	40 CFR 60	40 CFR 60
Date of Initial System Calibration & Quality Assurance:	9/24/14 (EP521) 9/25/14 (EP522)	9/24/14 (EP521) 9/24/15 (EP522)
Ongoing System Calibration/Quality Assurance:	40 CFR 60	40 CFR 60
Reporting & Recordkeeping:	40 CFR 60	40 CFR 60
Authority for Requirement:	LCPH ATI 5547 / PTO 5399-R1 LCPH ATI 5548 / 5400-R1 567 IAC 23.1(2)"ccc" LCO 10.9(2)"55"	LCPH ATI 5547 / PTO 5399-R1 LCPH ATI 5548 / 5400-R1

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: 573

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
573	69BN099301	Sodium Sulfate Storage Silo	Sodium Sulfate	145,000 lbs	69BH099302	BH-BV

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
573	PM/PM ₁₀	0.07 lb/hr		LCPH ATI 6818 / PTO 6651
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/scf	567 IAC 23.3(2)"a"(1) LCO 10.9(1)"a"	

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment.
- B. The normal differential pressure across the baghouse shall be maintained between 0.4" – 8.0" of water column¹. The owner or operator shall record the differential pressure across the baghouse on a weekly basis.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This does not include periods of startup, shutdown or cleaning of the control equipment.

Authority for Requirement: LCPH ATI 6818 / PTO 6651

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
573	73	V	10	140	1,600	LCPH ATI 6818 / PTO 6651

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary

Authority for Requirement: 567 IAC 22.108(14)

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: 575, 576, 577

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
575	93-UNLOADSALT1	Salt Tank (Brineer) #1	Salt	30.12 tph	93Y02A	Scrubber
576	93-UNLOADSALT2	Salt Tank (Brineer) #2	Salt	30.12 tph	93Y02B	Scrubber
577	93-UNLOADSALT3	Salt Tank (Brineer) #3	Salt	30.12 tph	93Y02C	Scrubber

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
575	PM/PM ₁₀	0.08 lb/hr	LCO 10.7	LCPH ATI 3218 / PTO 3203-R2 LCPH ATI 3216 / PTO 3204-R2 LCPH ATI 3215 / PTO 3205-R2
	Opacity	20%		
576 577	PM	0.1 gr/scf	567 IAC 23.3(2)"a"(1) LCO 10.9(1)"a"	

Operational Limits & Requirements

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

Operating Requirements with associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- C. The recirculation water flow rate in the scrubber shall be maintained ≥ 2 gpm. The owner or operator shall monitor and record the recirculation water flow rate on a weekly basis.

Authority for Requirement: LCPH ATI 3218 / PTO 3203-R1; LCPH ATI 3216 / PTO 3204-R1;
LCPH ATI 3215 / PTO 3205-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
575	31.5	V	18	70	901	LCPH ATI 3218 / PTO 3203-R2
576	32	V	18	70	901	LCPH ATI 3216 / PTO 3204-R2
577	31.9	V	18	70	901	LCPH ATI 3215 / PTO 3205-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary
Authority for Requirement: 567 IAC 22.108(14)

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: 582

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
582	94-UNLOADAA	AA Unload and Storage Tank	Acetic Anhydride	54 tph	94Q01	Scrubber – Alkaline
	94-UNLOADHCL	HCL Unload and Storage Tanks	Hydrochloric Acid	22.12 tph		
	95T097201	Ada Unload and Storage Tank	Adipic Anhydride	200 gpm		

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
582	VOC	0.35 lb/hr	LCO 10.7 567 IAC 23.3(2)"a"(1) LCO 10.9(1)"a"	LCPH ATI 5701 / PTO 5508-R1
	PM/PM ₁₀	0.02 lb/hr		
	Opacity	20%		
	PM	0.1 gr/scf		

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- B. The normal differential pressure across the scrubber shall be maintained between 0.1" and 4.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the scrubber on a weekly basis.
- C. The scrubber will maintain a 10-foot deep bed of #1 Tellerette[®] packaging and an entrainment separator section consisting of 12 inches of #1 Tellerettes[®].
- D. The normal pH of the scrubbing liquid shall be maintained \geq 8 standard units. The owner or operator shall monitor and record the pH of the scrubbing liquid on a weekly basis.
- E. The owner or operator shall maintain Safety Data Sheets (SDS) for all chemicals stored in tanks associated with this emission point.

¹ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This does include periods of startup, shutdown or cleaning of the control equipment.*

Authority for Requirement: LCPH ATI 5701 / PTO 5508-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
582	31.9	V	8	70	100	LCPH ATI 5701 / PTO 5508-R1

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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: 685

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
685	95T100B	Reslurry Tank	Starch	8 tph	95BH100A	BH-DC

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
685	PM/PM ₁₀	0.42 lb/hr		LCPH ATI 6174 / PTO 5958-R2
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/scf	567 IAC 23.3(2)"a"(1) LCO 10.9(1)"a"	

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall record the date and description of all maintenance completed on the control equipment.
- C. The normal differential pressure across the baghouse shall be maintained between 0.1" and 8.0" of water column¹. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.

¹ If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment.

Authority for Requirement: LCPH ATI 6174 / PTO 5958-R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
685	22	V	14	70	2,500	LCPH ATI 6174 / PTO 5958-R2

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Opacity Monitoring

See Appendix D, Opacity Monitoring Summary

Authority for Requirement: 567 IAC 22.108(14)

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: 752

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
752	67-R&D	R&D Scrubber	Starch & Ethanol	1 batch/day	67BH621401	BH-DC
					67Q10	Scrubber

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.

Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
752	VOC	2.89 lb/hr; 60.9 lbs/batch		LCPH ATI 6756 / PTO 6587
	PM/PM ₁₀	0.34 lb/hr		
	Opacity	20%	LCO 10.7	
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"	

Operational Limits & Requirements

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

Operating Limits

- A. The total number of batches shall be limited to 95 based on a 12-month rolling total.
- B. The fresh water flow rate in the scrubber shall be no less than 2 gpm¹.
- C. The control equipment on this unit shall be maintained according to the manufacturer’s specifications and good operating practices.
- D. The normal differential pressure across the baghouse shall be maintained between 0.4" – 6.0" w.c².

¹ This operating limit applies during the following steps: reactor fill step, material transfer activities, washing step, dewatering step, and drying step. This operating limit does not apply during periods where the reactor is closed and none of the listed activities are in progress.

² If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This does not include periods of startup, shutdown or cleaning of the control equipment.

Authority for Requirement: LCPH ATI 6756 / PTO 6587

Operating Condition Monitoring and Recordkeeping

Unless specified by a federal regulation, 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator shall record the number of batches processed on a monthly and 12-month rolling total basis.
- B. The owner or operator shall monitor and record the fresh water flow rate in the scrubber at least once during each batch produced.
- C. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.
- D. The owner or operator shall maintain a record of all maintenance completed on the control equipment.

Authority for Requirement: LCPH ATI 6756 / PTO 6587

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Temp (°F)	Flowrate (acfm)	Authority for Requirement
752	30	H	8	70	800	LCPH ATI 6756 / PTO 6587

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 any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

The following emission units exhaust through EP-752:

EU ID	EU Description	Rated Capacity
67VS620101	Reactor	300 gallon
67VS620201	Reactor	300 gallon
67VS620301	Reactor	100 gallon
67PR620601	Filter	10 gpm
67FR621001	Filter	4.9 ft ²
67DR621401	Dryer	4.9 ft ²
67BH621401	Dust Collector	72 ft ²

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 and Linn County Code of Ordinance (LCCO) Chapter 10, paragraph 10.4.

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 Linn County Public Health Air Quality Division. *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 Linn County Public Health Air Quality Division. *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" and LCCO 10.22*

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" and LCCO 10.18 and 10.19*

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) and LCCO 10.14(2)*

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) and LCCO 10.16(1)*

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

515 725-8694 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) and LCCO 10.14*
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) This notification must be made to Linn County Air Quality Division, in lieu of the Department, upon adoption of the NSPS or NESHAP into Chapter 10.*

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) and LCCO 10.5*

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 may be allowed by LCCO 10.10.

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. Exceedences 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) and LCCO 10.27*

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:

Iowa Department of Natural Resources
Air Quality Bureau
Stack Test Review Coordinator
502 E. 9th Street
Des Moines, IA 50319
(515) 725-9545

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

567 IAC 25.1(7)"a", 567 IAC 25.1(9) and LCCO 10.17

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:

Iowa Department of Natural Resources

Chief, Air Quality Bureau
502 E. 9th Street
Des Moines, IA 50319
(515) 725-9500

Reports or notifications to the local program shall be directed to the supervisor at the appropriate local program.
Current address and phone number is:

Linn County Public Health
Air Quality Division
1240 26th Avenue Ct SW
Cedar Rapids, IA 52404
(319) 892-6000

V. APPENDIX A – Applicable Federal Standards

40 CFR part 60 Subpart Db - *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units*

A link to the current final rule can be found at the link below:

http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.d_0b

40 CFR part 60 Subpart Kb - *Standards of Performance for Volatile Organic Liquid Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced after July 23, 1984*

A link to the current final rule can be found at the link below:

http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.k_0b

40 CFR part 60 Subpart VV - *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or before November 7, 2006*

A link to the current final rule can be found at the link below:

<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.vv>

40 CFR part 60 Subpart IIII - *Standards of Performance for Stationary Compression Ignition Engines*

A link to the current final rule can be found at the link below:

<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.iiii>

A listing of all the promulgated NSPS rules, EPA Region 7 staff contact information (for questions pertaining to the rule), compliance assistance links and a link to each NSPS can be found at the link below:

<http://www2.epa.gov/caa-permitting/new-source-performance-standards-region-7>

40 CFR 63 Subpart ZZZZ – *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*

A link to the current final rule can be found at the link below:

<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.14.63.zzzz>

40 CFR 63 Subpart BBBBBB – *National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities.*

A link to the current final rule can be found at the link below:

<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.15.63.bbbbbb>

A listing of all the promulgated MACT rules, EPA Region 7 staff contact information (for questions pertaining to the rule), compliance assistance links and a link to each MACT can be found at the link below:

<http://www2.epa.gov/caa-permitting/maximum-achievable-control-technology-standards-region-7>

V. APPENDIX B – CAM Plans Summary

I. Background

A. Emissions Unit

Description: See CAM Table 1 for full listing
Identification: See CAM Table 1 for full listing
Facility: Ingredion Incorporated
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: See CAM Table 1 for full listing
Emission Limit or Standard: See CAM Table 1 for full listing
Current Monitoring Requirements: See CAM Table 1 for full listing

C. Control Technology

See CAM Table 1 for full listing

II. Monitoring Approach

General Monitoring Guidelines

- CAM involves the observation of control equipment indicators: See CAM Table 1 for full listing. This plan defines acceptable ranges for these indicators. CAM also includes control equipment inspections when excursions of the indicator have taken place and possible corrective action and maintenance, if necessary.
- Monitoring is not required during periods of time greater than one day in which the source does not operate.

Excursion from Compliance

- An excursion occurs when an observed compliance indicator is outside of its defined acceptable indicator range during normal operations, not including startup and shutdown events. An excursion does not necessarily indicate a violation of applicable permit terms, conditions, and/or requirements. However, an excursion must be reported in the Annual Compliance Certification Report.
- Corrective actions will begin as soon as possible, but no later than eight hours from the observation of the excursion.

A. Indicator

See CAM Table 1 for a full list of monitoring indicators identified by emission point and associated control equipment.

B. Indicator Range

See CAM Table 1 for the appropriate indicator range(s) for each of the selected monitoring indicators identified by emission point and associated control equipment. An excursion is defined as an observation of a monitoring indicator that falls outside/below the identified indicator range. Where no visible emissions are the monitoring indicator, the presence of visible emissions is defined as an excursion. Excursions trigger an inspection, corrective action and a recordkeeping requirement.

C. Measurement Approach

See CAM Table 1 for individual monitoring frequencies for each of the selected monitoring indicators identified by emission point and associated control equipment.

D. Performance Criteria

Data representativeness:

Excursions from the normal operating range(s) of the monitoring indicators listed in CAM Table 1 could reveal a decrease in the performance of the control equipment and potentially result in an increase of emissions if corrective actions are not initiated.

Verification of operational status:

Record any excursions and corrective actions, inspections and maintenance resulting from readings outside/below the indicator range, or the presence of visible emissions. Records of monitoring indicator measurements shall be kept for a minimum of five (5) years and shall be available for inspection by the federal, state, and local air pollution regulatory agencies and/or their representatives. Records shall be legible and maintained in an orderly manner.

QA/QC practices and criteria:

All instruments and control equipment will be calibrated, maintained, and operated according to the manufacturer's specifications. For visible emissions observations as identified in CAM Table 1: observe no emissions are being emitted. If an emission is seen, the system is immediately shut down for review.

Monitoring frequency:

The facility shall check the monitoring indicators at the frequency identified in CAM Table 1 when the associated emission unit (or units) is in operation.

Data collection procedure:

Monitoring indicators are recorded on the air monitoring form (which may be electronic record in the future). Monitoring records will be maintained for 5 years. Maintenance records will be kept for 5 years.

CAM Table 1. Summary of CAM Requirements by Emission Point.

EP	EU	EU Description	CE	Pollutant	Emission Limit(s)	Regulation No.
23	61D73 61H73	Starch Flash Dryer #2	Scrubber	PM/PM ₁₀	0.05 gr/scf; 24.02 lb/hr 4.19 lb/hr	DNR PSD 03-A-095-P2 LCPH ATI 2338 / PTO 3209-R3
106	14TK140001-701	Main Fermentation Vent	Scrubber	VOC	4.25 lb/hr; 18.69 tpy	LCPH ATI 5255 / PTO 5959-R2
207	16-CONVEY&LOAD	House Dust Collector – Convey/Load/ Transfer Byproducts	Baghouse	PM	0.1 gr/scf; 2.41 lb/hr	LCPH ATI 5873 / PTO 5647-R1
				PM ₁₀	2.41 lb/hr	
241	04-STEEPS&MILL	Steep & Surge Tanks & Millhouse Tanks	Scrubber	VOC	8.42 lb/hr	LCPH ATI 6098 / PTO5919-R1
260	05DR042006	Germ Rotary Tube Dryer #6	Scrubber	SO ₂	2.81 lb/hr;	LCPH ATI 6281 / PTO 6147-R2
265	05DR42005; 05MS42001	Germ Predryer	Cyclones	PM	0.015 gr/dscf; 2.66 lb/hr ⁽¹⁾	DNR PSD 03-A-097-P1 LCPH ATI 6091 / PTO 5929-R2
				PM ₁₀	0.015 gr/dscf; 2.66 lb/hr ⁽¹⁾ ; 3.34 lb/hr ⁽²⁾	
275	70DR54001; 70MS54001	Gluten Meal Dryer	Scrubber	PM/PM ₁₀	0.03 gr/dscf; 14.51 lb/hr	DNR PSD 03-A-098-P1 LCPH ATI 6092 / PTO 5930-R2
				PM ₁₀	2.7 lb/hr	
				SO ₂	500 ppm _v ; 6.5 lb/hr	
285	58-CORNCONVEY	Corn Unload & Handling	Baghouse	PM	0.1 gr/scf; 3.32 lb/hr	LCPH ATI 6094 / PTO 5932-R2
				PM ₁₀	3.32 lb/hr	
480	EU97-REACTORS-EO; EU97-REACTORS-PO	EO/PO Reactors	Scrubber	HAP	1 lb EO/batch 2.1 lbs PO/batch	LCPH ATI 6837 / PTO 6586-R1

⁽¹⁾ The emission limit is expressed as filterable PM only per original PSD Project 90-249.

⁽²⁾ The emission limit is expressed as total PM (Filterable and Condensable).

CAM Table 1. Summary of CAM Requirements by Emission Point. (Continued)

EP	Current Monitoring Requirements	Monitoring Indicator	Indicator Range	Measurement Approach	Monitoring Frequency
23	Scrubber water recirculation flow rate	Recirc water flow	≥ 180 gpm	Flow rate measurement using flow meter	Daily
106	Scrubber water flow rate	Fresh water flow	≥ 40 gpm during normal operation; ≥ 27 gpm at reduced operation (<100 gpm glucose feed); ≥ 10 gpm during sustain-mode operation (< 32 gpm glucose feed, dP < 0.7 in w.c.) ⁽¹⁾	Flow rate measurement using flow meter	Daily
207	Differential pressure readings	ΔP	≥ 0.6 in w.c. ⁽²⁾	Differential pressure measurement using pressure gauge	Daily
241	Scrubber water flow rate	Fresh water flow	≥ 85 gpm during normal operation ⁽¹⁾	Flow rate measurement using flow meter	Daily
260	Scrubber water pH	pH	≥ 7.0	pH measurement using pH meter	Daily
265	Visible emissions	VE	No Visible Emissions	Visible emissions from cyclone exhaust	Daily
275	Scrubber water solids Scrubber water pH	Specific gravity	Maximum of 1.2 mL per 15 mL sample	Specific gravity measurement using densitometer	Daily
		pH	> 5.6	pH measurement using pH meter	
285	Differential pressure readings	ΔP	≥ 4 in w.c. ⁽²⁾	Differential pressure measurement using pressure gauge	Daily
480	Scrubber water recirculation flow rate	Recirc water flow	≥ 70 gpm during normal operation ⁽¹⁾	Flow rate measurement using flow meter	Daily

⁽¹⁾ An excursion is defined as an hourly average (60 minute) scrubber water flow rate less than the indicator range. If the DAS display (real-time) is outside the indicator range, the hourly average flow rate (sixty 1-minute readings) will be calculated and recorded.

⁽²⁾ Except during startup, shutdown, cleaning of control equipment, or immediately after new bags are installed. An excursion is defined as an hourly average (60 minute) differential pressure reading that is less than the indicator range. If the DAS display (real-time) is outside the indicator range, the hourly average flow rate (sixty 1-minute readings) will be calculated and recorded.

V. APPENDIX C – Agency O&M Plans Summary

Agency Operation & Maintenance Plan Thermal Oxidizer

Thermal Oxidizer Parameters

- Thermal Oxidizer Type: Flare
- Associated Emission Units: EP117
- Pollutants Controlled: VOC, VHAP

General Monitoring Guidelines

- Ingestion will monitor process and control equipment operations to maintain compliance with applicable permit terms, conditions, and requirements.
- Ingestion will perform Weekly Monitoring: The Operation's Department personnel will obtain at least one reading per every seven days in which equipment is operating with product. Within a calendar month, the seven days are sequential, but not necessarily consecutive. Monitoring is not required during periods of time greater than one week in which the source does not operate with product.
- For Weekly Monitoring of visible emissions, Department personnel will observe stack exhaust to ensure no visible emissions occur while waste gases are being flared.
 - If weather conditions prevent visible emissions monitoring, the observer will note the weather condition on the monitoring form. If an observation is necessary to meet the required weekly monitoring, at least three attempts will be made to retake the observation throughout the day. If unsuccessful that day due to weather, an observation will be made the next possible day in which the equipment is operating with product and weather permits.
- For Weekly Monitoring of flare stack exhaust temperature, Department personnel will record the temperature in the exhaust stack of the flare while waste gases are being flared.
- Ingestion will perform Annual Monitoring: The Maintenance Department will perform preventive maintenance (PM) on equipment at least once during a 12-month period. Preventive maintenance is scheduled utilizing a Computerized Maintenance Management System (CMMS). Monitoring is performed at least once within a consecutive 12-month time period as long as the equipment was not out-of-service for an extended period of time.
 - If the equipment is out-of-service for an extended period of time (and locked out per the Lockout/Tagout Program), then the annual PM will indicate an out-of-service status in lieu of performing a complete PM. If equipment is out-of-service for an extended period of time, then the annual monitoring PM will be performed on the equipment before it is started up.
- Ingestion makes a commitment to take timely corrective action during periods of excursion where the visual or mechanical indicators are out of range. An excursion is determined by the averaged discrete data point over a period of time or the presence of a monitored abnormal condition. An excursion does not necessarily indicate a deviation or violation of applicable permit terms, conditions, and/or requirements.
- If through monitoring Ingestion finds an abnormal condition, such as visible emissions or monitoring equipment indicators out of range, Ingestion will take corrective action. An abnormal condition does not necessarily indicate a deviation or violation of applicable permit terms, conditions, and/or requirements.
- Ingestion will take corrective action in accordance with the severity of the excursion/abnormal condition. Corrective actions will begin as soon as possible, but no later than eight hours from the observation of the excursion/abnormal condition.
- Corrective actions include, but are not limited to:
 - Investigating the cause of the excursion/abnormal condition;
 - Verifying that the excursion/abnormal condition is not start-up/shutdown related;
 - Notifying area Team Leader or Facility Manager of the abnormal condition;
 - Writing/submitting a Work Order to the Maintenance Department;
 - Performing repairs or adjustments that return the process and control operations to normal;
 - Repairing and/or replacing equipment components;
 - Shutting down the process and control equipment.

- For visible emissions, if corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If a Method 9 observation is made that exceeds the Linn County emission-point-specific PTO limit or exceeds 20% opacity (if the stack has no Linn County PTO limit), then a violation would result.
- Corrective actions will result in one of the following:
 - If the corrective action returns the process and control equipment operations to normal, the excursion/abnormal condition does not result in a monitoring deviation.
 - If the corrective action does not correct the excursion/abnormal condition or no corrective action is taken, then a monitoring deviation results.
- If corrective actions do not return process and control equipment operations to normal, Ingredion will perform the following follow-up actions, as applicable:
 - Promptly report the excursion/abnormal condition to Linn County;
 - Shut down the process and control equipment;
 - Conduct source testing within 90 days of the excursion/abnormal condition to demonstrate compliance.
 - If the test demonstrates compliance with emission limits, Ingredion will determine new indicator ranges for monitoring and incorporate on monitoring form;
 - If the test demonstrates noncompliance with emission limits, Ingredion will, within 60 days, propose a schedule to implement corrective action to bring the source into compliance and conduct source testing to demonstrate compliance;
 - Report monitoring deviation(s) as required by IDNR requirements.
- If the required monitoring, recordkeeping, or stack tests, are not performed within specified time periods, then the resulting deviations and/or violations will be reported per IDNR requirements.

Monitoring Methods

- This Operation and Maintenance Plan utilizes the following monitoring methods to demonstrate compliance.
 - Operator Assessment of Visible Emissions
 - Operator Evaluation of Exhaust Temperature
 - Maintenance Department Equipment Integrity Inspection and Remediation Procedures
- Weekly (by Operations Department)
 - Assess exhaust to ensure no visible emissions occur from the stack while waste gases are being flared.
 - Check flare stack exhaust temperature.
 - Observe additional mechanical, visual and audible conditions.
- Annually (by Maintenance Department)
 - Inspect flare integrity.
 - Inspect waste gas system.
 - Inspect natural gas system.
 - Inspect control system.
 - Inspect/validate gauges and monitoring instruments.
 - Inspect safety system.

Record Keeping and Reporting

- Ingredion will maintain records of the following:
 - Weekly Operation's and annual Maintenance monitoring logs in written and/or electronic form.
 - Corrective actions resulting from the monitoring noted on Operations Monitoring Forms and/or Maintenance Work Orders or Preventive Maintenance logs, in written and/or electronic form, as appropriate.
- Records will be kept for at least five years and be available upon request.

Quality Control

- The flare will be operated and maintained according to manufacturer recommendations and/or as outlined in the above monitoring requirements.
- Ingredion will maintain an adequate inventory of spare parts.

Authority for Requirement: 567 IAC 22.108(3)"b"

V. APPENDIX D – Opacity Monitoring Summary

Visible Emission Monitoring

The facility shall check visible emissions during a period when the emission unit listed in Opacity Monitoring Table 1 is operating with product and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Stack exhaust shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

Weekly Monitoring: Obtain at least one reading per every seven days in which equipment is operating with product. Within a calendar month, the seven days are sequential, but not necessarily consecutive. Monitoring is not required during periods of time greater than one week in which the source does not operate with product. If weather conditions prevent visible emissions monitoring, the observer will note the weather condition on the monitoring form. If an observation is necessary to meet the required weekly monitoring, at least three attempts will be made to retake the observation throughout the day. If unsuccessful that day due to weather, an observation will be made the next possible day in which the equipment is operating with product and weather permits.

Opacity Monitoring

If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Opacity Monitoring Table 1.

EP	EU ID	EP	EU ID	EP	EU ID
1	56S01	23	61D73 (Daily) ¹	121	85S01
2	56S02	25	61W80	206	16BL71601
3	56S03	26	61K119	207	16-CONVEY&LOAD
4	56S04	30	61D99-Heat	255	05BL53001
5	56S05	31	61W105	260	05DR042006
6	56S06	32	61Z105	261	05DR42004
7	56S07	33	56S11	262	05DR42003
8	56S08	34	56S12	263	05DR42002
9	56S09	35	56S13	264	05DR42001
10	56S10	36	56S14	265	05DR42005 (Daily) ¹
11	61W21	37	61M125	275	70DR54001 (Daily) ¹
12	61Z22	38	61W115 (Daily) ¹	285	58-CORNCONVEY
13	61W16	39	61K40 (Daily) ¹	294	58W22
14	56FN535001	42	61D99-COOL	325	25BD171601&TK
15	61D11	56	61W27	403	69Z02
18	61W31	57	57PK546001-2	404	69Z482501
19	61Z32	58	57BL545501	407	69-LOADOUTMID
20	61K39	59	57PK545501	409	69W11
21	61W34	61	56BL526001	413	69W02

Opacity Monitoring Table 1. (Continued)

EP	EU ID	EP	EU ID	EP	EU ID
414	69Z11	457	69D12	469	69W01
421	69BN490101	460	69W22	472	69K17A-B
423	69BN490301	461	69Z12	473	69K18A-B
425	69BN490501	463	69W12	474	EU_TRANSLOAD
427	69BN490701	464	69W05	573	69BN099301
429	69BN490901	465	69W16	575	93-UNLOADSALT1
430	69BN491001	466	69W12A	576	93-UNLOADSALT2
431	69BN491101	467	69-LOADOUTEAST	577	93-UNLOADSALT3
446	69D11	468	69-LOADOUTWEST	685	95T100B

⁽¹⁾ Daily visible emissions checks are required for those sources with note ⁽¹⁾. All others are weekly.

Authority for Requirement: 567 IAC 22.108(14)

V. APPENDIX E – Stack Testing Summary

EP	EU Description	Pollutant	Compliance Methodology	Completion Deadline	Test Method
31	Pneumatic System – Dryer #3 Mixers to Scalping Reel	PM	Stack Test	1/01/2021	40 CFR 60, Appendix A, Method 5 40 CFR 51, Appendix M, Method 202
207	Convey & Load & Transfer Feed	PM	Stack Test	1/01/2021	40 CFR 60, Appendix A, Method 5 40 CFR 51, Appendix M, Method 202
261	Germ Dryer #4 – Cooling Section	PM	Stack Test	1/01/2021	40 CFR 60, Appendix A, Method 5 40 CFR 51, Appendix M, Method 202
265	Germ Predryer	SO ₂	Stack Test	1/01/2021	40 CFR 60, Appendix A, Method 6C
285	Corn Unload & Handling	PM	Stack Test	1/01/2021	40 CFR 60, Appendix A, Method 5 40 CFR 51, Appendix M, Method 202

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Authority for Requirement – 567 IAC 22.108(3) (All)