

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

Name of Permitted Facility: Cargill, Inc. – Cedar Rapids

Facility Location: 1710 16th Street SE, Cedar Rapids, IA 52401

Air Quality Operating Permit Number: 07-TV-006R3 **DRAFT**

Expiration Date: **Month Day, Year**

Permit Renewal Application Deadline: **Month Day, Year**

EIQ Number: 92-9020

Facility File Number: 57-01-004

Responsible Official

Name: Dan Pulis

Title: Facility Manager

Mailing Address: 1710 16th Street SE, Cedar Rapids, IA 52401

Phone #: (319) 399-2177

Permit Contact Person for the Facility

Name: Tom Loving

Title: Environmental Specialist

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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

Marnie Stein, Supervisor of Air Operating Permits Section

Date

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Abbreviations

acfm	actual cubic feet per minute	LCCO	Linn County Code of Ordinances
ATI	authorization to install	MMBtu/hr	million British thermal units per hour
BHP	brake horse power	MMcf/hr	million cubic feet per hour
Btu	British thermal units	MVAC	motor vehicle air conditioner
CFR	Code of Federal Regulation	NAICS	North American Industry Classification System
CI	compression ignition	NSPS	new source performance standard
CEMS	continuous emission monitoring System	ppm _v	parts per million by volume
CE	control equipment	PTO	permit to operate
°F	degrees Fahrenheit	lb/hr	pounds per hour
D	downward discharge	lb/MMBtu	pounds per million British thermal units
EIQ	emissions inventory questionnaire	PO	propylene oxide
EP	emission point	scfm	standard cubic feet per minute
EU	emission unit	SIC	standard Industrial Classification
GPH	gallons per hour	tph	tons per hour
gpm	gallons per minute	tpy	tons per year
gr./dscf	grains per dry standard cubic foot	USEPA	United States Environmental Protection Agency
H	horizontal	V	vertical, unobstructed
I	inside-vent inside building	VR	Vertical, with obstruction rain cap
IAC	Iowa Administrative Code		
IDNR	Iowa Department of Natural Resources		
LCPH	Linn County Public Health		

Pollutants

PM	particulate matter
PM ₁₀	particulate matter ten microns or less in diameter
PM _{2.5}	particulate matter two point five microns and less in diameter
SO ₂	sulfur dioxide
NO _x	nitrogen oxides
NMHC	nonmethane hydrocarbons
VOC	volatile organic compound
CO	carbon monoxide
HCl	hydrochloric acid
HAP	hazardous air pollutant
SHAP	single hazardous air pollutant
THAP	total hazardous air pollutant
VHAP	volatile hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: Cargill, Inc. – Cedar Rapids

Permit Number: 07-TV-006-R3

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

Table 1 – Equipment List by Process Group

Emission Point #	Emission Unit #	Emission Unit Description	Construction Permit # (LCPH ATI / PTO)
Utilities (Process Group 1)			
100	100	Gas Boiler	6774 / 6728
101	101	#2 Gas Boiler	7746 / 7507-R1
210	210	Emergency Generator	7490 / 7211-R1
258	258	500 kW Back-up Generator	6215 / 6085-R3
516	516	Refinery Loadout Boiler	--
Refinery (Process Group 2)			
24	24	Precoat Bin from Railcar	7664 / 7505
32	32A	Carbon Furnace	7648 / 7449
	32B	Carbon Furnace Burner	
33	33	Refinery Process Tanks	6378 / 6116-R5
Process (Process Group 3)			
11	11	Corn Truck Unload	6068 / 5794-R2
12	12	Gluten Sizing System	7124 / 6897
13	13A	Feedhouse Truck Loadout	5674 / 5681-R3
	13B	Rail Gluten/Germ Loadout System	
14	14A	Gluten Scale	6950 / 6756-R1
	14B	Gluten Conveying	
15	15	East Germ Storage Bin	5512 / 5560-R3
16	16	West Germ Storage Bin	5513 / 5561-R3
17	17	West Gluten Bin	5514 / 5562-R3
20	20A	Germ Dryer Burner	7402 / 7250
	20BNEW	Gluten Steam Tube Dryer	
	20C	Germ Dryer Sections 1-4	
	20D	Waste Gas Steepwater Evaporator	
	20F	Bran Dewatering System	
23	20A	Germ Dryer Burner	7064 / 6799-R1
	20C	Germ Dryer Sections 1-4	
37	37	Corn Cleaning & Conveying Aspiration	7687 / 7438
40	40A	Mill Aspiration System	7021 / 6800-R2
	40B	Gluten Tank	
	40C	Clarifier Feed Tank	
	40D	Primary Feed Tank	
	40E	Clarifiers	
	40F	MST Feed Tank	
	40G	Millwater Tank	
41	41	Steep House Scrubber	6034 / 5761-R2
68	68	Cracked Corn Hammermill	5881 / 5582-R3
109	109A	Gluten Filter Vent	6953 / 6815-R2
	20F	Bran Dewatering System	
113	113	Germ Dryer Section 5	7065 / 6801-R1
	113B	Germ Dryer Burner	
130	130	Corn Silos 1-4	6069 / 5795-R2

Emission Point #	Emission Unit #	Emission Unit Description	Construction Permit # (LCPH ATI / PTO)
176	176A	Waxy Corn Silo #1	4330 / 4469-R4
	176B	Waxy Corn Silo #2	
177	177	Grain Receiving Pit	7541 / 7378
230	230	Cracked Corn Conveying	4720 / 4785-R2
245	245	East Gluten Bin	4998 / 5034-R3
246	246	Dried Gluten Receiver	5173 / 5146-R3
247	247	Wetbran Conveyor	5475 / 5236-R3
249	249	East Gluten Filter Vacuum Pump	5337 / 5217-R4
250	250	Middle Gluten Filter Vacuum Pump	5643 / 5397-R3
251	251	West Gluten Filter Vacuum Pump	5644 / 5398-R2
252	252	Starch Slurry Tank #7	5344 / 5673-R1
255	255A	Rail Germ Loadout	5676 / 5440-R3
	255B	Germ Conveying	
263	263	Elevator Tunnel Vacuum Filter	6629 / 6441-R1
410	20A	Germ Dryer Burner	7403 / 7251
	20B	Gluten Steam Tube Dryer	
	20C	Germ Dryer Sections 1-4	
	20D	Waste Gas Steepwater Evaporator	
	113	Germ Dryer Section 5	
	113B	Germ Dryer Burner	
410	410	RTO Burner	
451	451	Heavy Steepwater Tank	7111 / 6841
Food Starch (Process Group 4)			
6	6	#5 Starch Bulk Storage	4460 / 4476-R3
8	8	#7 Starch Bulk Storage	4461 / 4477-R3
27	27	#3 Starch Bulk Storage	4558 / 4618-R4
43	43	Vacuum Cleaner Vent	5462 / 5443-R3
51	51A	Packer Pulsaire	6951 / 6730-R1
	51B	Industrial Starch Packer Web	
	51C	Packers 5 & 6	
	51D	A & B Bins	
52	52	#1 Starch Bulk Storage	4559 / 4619-R3
58	58	Food Grade Truck	6243 / 6040-R3
65	65	Starch Loadout	2139 / 2246-R5
149	149	Starch Bulk Bagger	2977 / 3662-R4
254	254	Slurry Tank #5	5416 / 5674-R2
390	390	Food Starch Sifter	6395 / 6257-R3
450	180	Turbilizer	7539 / 7377
	181	Merco O/F Tank	
	182	Mod Tank #101	
	183	Deactivation Tank	
	184	Wash Merco Feed Tank	
	185	Merco 36	
	450	Slurry Tank #8	
Industrial Starch Process Group 5)			
1	1	#3 Starch Flash Dryer	6922 / 6802-R1
5	5	Bulk Soda Ash Loadout	4879 / 4872-R2
9	9	C* Starch Bin #8	5460 / 5441-R3
61	61	Mod House Heil Wet Scrubber	6960 / 6731-R1
70	70A	Starch Modification Tank 1	7345 / 7125
	70B	Starch Modification Tank 2	
	70C	Starch Washer 1	
	70D	Starch Washer 2	

Emission Point #	Emission Unit #	Emission Unit Description	Construction Permit # (LCPH ATI / PTO)
	70E	Soda Ash Storage Tank 3	
	IU-544	SBS Tank Starch	
71	71A	Tank 9	6952 / 6814-R2
	71B	Tank 10	
	71C	Tank 12	
	71D	Tank 14	
	71E	Tank 15	
	71F	Tank 16	
	71G	Tank 17	
79	79	Industrial Starch Loadout	5463 / 5345-R3 DNR PSD 16-A-258-P1
85	85	#10 Starch Bulk Storage Bin	5464 / 5444-R4
90	90	Starch Flash Dryer #4	6923 / 6803-R1 DNR PSD 16-A-259-P2
91	91	#11 Starch Storage Bin	2447 / 2410-R3 DNR PSD 16-A-260-P1
92	92	#12 Starch Storage Bin	2446 / 2409-R3 DNR PSD 16-A-261-P1
93	93	#13 Starch Storage Bin	2445 / 2408-R3 DNR PSD 16-A-262-P1
94	94	#18 Industrial Starch Storage Bin	5465 / 5445-R4
95	95	Starch Surge Bin	2475 / 2416-R3
102	102	#14 Starch Storage Bin	2563 / 2559-R3
103	103	C* Film Vertical Bin #15	5466 / 5446-R3
104	104	#16 Starch Storage Bin	2565 / 2558-R3
105	105	Starch Storage Bin	2566 / 2556-R3
155	155	Industrial Grade Packer / Blower	3715 / 4212-R4
300	300	C* Film Starch Receiving Filter	5456 / 5447-R5
	301WF	Weight Feeder	
320	320	Dryer	5043 / 5583-R3
	310SH	Starch Hopper	
330	330	Modified Starch Receiving Filter	5044 / 5448-R4
340	340	Sifter	5045 / 5449-R4
350	350	C* Film Final Product Hopper	5457 / 5450-R4
360	360	Product Receiving Filter	5047 / 5451-R4
370	370	C* Film Loadout Surge Hopper	5458 / 5452-R4
380	380	C* Cooling Tower	5459 / 5453-R1
452	452	Starch Centrifuge	7196 / 6914
453	1A	Dryer 3 Paddle Mixer	7395 / 7121
	1B	Dryer 3 Rotosieve	
	1C	Dryer 3 Surge Hopper	
454	90A	Dryer 4 Paddle Mixer	7396 / 7193
	90B	Dryer 4 Rotosieve	
	90C	Dryer 4 Surge Hopper	
Specialty Starch (Process Group 7)			
115	115	Loadout Dust Collector	2739 / 3668-R2
116	116A	Starch Dryer	7532 / 7405
	116B	Starch Dryer Burner	
118	118	Salt Storage Bin Vent	4276 / 4264-R1
119	119	#19 Starch Bulk Storage	6392 / 6247-R3
120	120	#20 Starch Storage Bin	6393 / 6248-R3
121	121	#21 Starch Storage Bin	6394 / 6249-R3

Emission Point #	Emission Unit #	Emission Unit Description	Construction Permit # (LCPH ATI / PTO)
124	124	Packer Hopper Vent	6587 / 6548-R1
153	153	Sodium Sulfate Receiving	5677 / 5439-R1
160	160A	PO Storage Tank	5876 / 5740-R3
	160C	Reactor #131	
	160D	Reactor #132	
	160E	Reactor #134	
	160F	Reactor #135	
	160H	Stripper #2	
161	161A	POCl ₃ Storage Tank	6961 / 6732-R1
	161B	H ₂ SO ₄ Storage Tank	
	161C	Deactivation Tank	
	161D	Modification Tank #101	
	161E	Modification Tank #102	
	161F	Modification Tank #103	
	161G	Modification Tank #104	
	161H	nOSA Tank	
	161I	Modification Tank #105	
162	162A	Flash Dryer #6	7533 / 7404
	162B	Flash Dryer #6 Burner	
164	164	Storage Bin #104	4026 / 4461-R3
165	165	Storage Bin #105	4027 / 4462-R3
166	166	Storage Bin #106	4028 / 4463-R3
167	167	Specialty Starch Bin #107	5320 / 5580-R3
169	169	Specialty Starch Bin #109	7669 / 7445
170	170	Specialty Starch Warehouse Receiver	6618 / 6549-R4
171	171	Specialty Starch Storage Bin 108	7668 / 7506
173	173A	Starch Packer	6727 / 6471-R2
	173B	Super Sacker	
	173C	Cleanup Vacuum	
174	174	Grinder Discharge Receiver	4272 / 4467-R3
175	175	Warehouse Vacuum Receiver	4273 / 4468-R4
240	240	Starch Re-Slurry System	4855 / 4862-R3
248	248	Slurry Tank #6	5137 / 5100-R2
260	260	East Dilute Phase Pot	6535 / 6434-R4
262	262	West Dilute Phase Pot	6750 / 6550-R4
265	265	West Dilute Supersack Receiver	7534 / 7427
266	266	West Dense Supersack Receiver	7535 / 7428
267	267	West Supersack Vacuum System	7536 / 7429
268	268	West Dilute Supersack Surge Bin	7537 / 7430-R1
269	269	West Dense Supersack Surge Bin	7538 / 7431-R1

Table 2 - Equipment List by Emission Point

Emission Point #	Emission Unit #	Emission Unit Description	Process Group
1	1	#3 Starch Flash Dryer	Industrial Starch
5	5	Bulk Soda Ash Loadout	Food Starch
6	6	#5 Starch Bulk Storage	Food Starch
8	8	#7 Starch Bulk Storage	Food Starch
9	9	#8 Starch Bulk Storage	Industrial Starch
11	11	Corn Truck Unload	Process
12	12	Gluten Sizing System	Process

Emission Point #	Emission Unit #	Emission Unit Description	Process Group
13	13A	Feedhouse Truck Loadout	Process
	13B	Rail Gluten/Germ Loadout System	
14	14A	Gluten Scale	Process
	14B	Gluten Conveying	
15	15	East Germ Storage Bin	Process
16	16	West Germ Storage Bin	Process
17	17	West Gluten Storage Bin	Process
20	20A	Germ Dryer Burner	Process
	20BNEW	Gluten Steam Tube Dryer	
	20C	Germ Dryer Sections 1-4	
	20D	Waste Gas Steepwater Evaporator	
	20F	Bran Dewatering System	
23	20A	Germ Dryer Burner	Process
	20C	Germ Dryer Sections 1-4	
24	24	Precoat Bin from Railcar	Refinery
27	27	#3 Starch Bulk Storage	Food Starch
32	32A	Carbon Furnace	Refinery
	32B	Carbon Furnace Burner	
33	33	Refinery Process Tanks	Refinery
37	37	Corn Cleaning / Convey	Process
40	40	Mill House Scrubber	Process
41	41	Steep House Scrubber	Process
43	43	Vacuum Cleaner Vent	Food Starch
51	51A	Packer Pulsaire	Food Starch
	51B	Industrial Starch Packer Web	
	51C	Packers 5 & 6	
	51D	A & B Bins	
52	52	#1 Starch Bulk Storage	Food Starch
58	58	Food Grade Truck	Food Starch
61	61	Mod House Heil Wet Scrubber	Industrial Starch
65	65	Starch Loadout	Food Starch
68	68	Cracked Corn Hammertmill	Process
70	70A	Starch Modification Tank 1	Industrial Starch
	70B	Starch Modification Tank 2	
	70C	Starch Washer 1	
	70D	Starch Washer 2	
	70E	Soda Ash Storage Tank 3	
	IU-544	SBS Tank Starch	
71	71A	Tank 9	Industrial Starch
	71B	Tank 10	
	71C	Tank 12	
	71D	Tank 14	
	71E	Tank 15	
	71F	Tank 16	
	71G	Tank 17	
79	79	Industrial Starch Loadout	Industrial Starch
85	85	#10 Starch Bin	Industrial Starch
90	90	Starch Ring Flash Dryer	Industrial Starch
91	91	#11 Starch Storage Bin	Industrial Starch
92	92	#12 Starch Storage Bin	Industrial Starch
93	93	#13 Starch Storage Bin	Industrial Starch
94	94	#18 Starch Storage Bin	Industrial Starch

Emission Point #	Emission Unit #	Emission Unit Description	Process Group
95	95	Starch Surge Bin	Industrial Starch
100	100	Gas Boiler	Utilities
101	101	#2 Gas Boiler	Utilities
102	102	#14 Starch Storage Bin	Industrial Starch
103	103	#15 Starch Storage Bin	Industrial Starch
104	104	#16 Starch Storage Bin	Industrial Starch
105	105	Starch Storage Bin	Industrial Starch
109	109	Gluten Filter Vent	Process
	20F	Bran Dewatering System	
113	113	Germ Dryer Section 5	Process
	113B	Germ Dryer Burner	
115	115	Loadout Dust Collector	Specialty Starch
116	116A	Starch Dryer	Specialty Starch
	116B	Starch Dryer Burner	
118	118	Salt Storage Bin Vent	Specialty Starch
119	119	#19 Starch Bulk Storage	Specialty Starch
120	120	#20 Starch Storage Bin	Specialty Starch
121	121	#21 Starch Storage Bin	Specialty Starch
124	124	Packer Hopper Vent	Specialty Starch
130	130	Corn Silos 1-4	Process
149	149	Starch Bulk Bagger	Food Starch
153	153	Sodium Sulfate Receiving	Specialty Starch
155	155	Industrial Grade Packer / Blower	Industrial Starch
160	160A	PO Storage Tank	Specialty Starch
	160C	Reactor #131	
	160D	Reactor #132	
	160E	Reactor #134	
	160F	Reactor #135	
	160H	Stripper #2	
161	161A	POCl3 Storage Tank	Specialty Starch
	161B	Sulfuric Acid Storage Tank	
	161C	Deactivation Tank	
	161D	Modification Tank #101	
	161E	Modification Tank #102	
	161F	Modification Tank #103	
	161G	Modification Tank #104	
	161H	nOSA Tank	
161I	Modification Tank #105		
162	162A	Flash Dryer #6	Specialty Starch
	162B	Flash Dryer #6 Burner	
164	164	Storage Bin #104	Specialty Starch
165	165	Storage Bin #105	Specialty Starch
166	166	Storage Bin #106	Specialty Starch
167	167	Specialty Starch Storage Bin #107	Specialty Starch
169	169	Specialty Starch Storage Bin #109	Specialty Starch
170	170	Specialty Starch Warehouse Receiver	Specialty Starch
171	171	Starch Storage Bin 108	Specialty Starch
173	173A	Starch Packer	Specialty Starch
	173B	Super Sacker	
	173C	Cleanup Vacuum	
174	174	Grinder Discharge Receiver	Specialty Starch
175	175	Warehouse Vacuum Receiver	Specialty Starch

Emission Point #	Emission Unit #	Emission Unit Description	Process Group
176	176A	Waxy Corn Silo #1	Process
	176B	Waxy Corn Silo #2	
177	177	Grain Receiving Pit	Process
210	210	Emergency Generator	Utilities
230	230	Cracked Corn Conveying	Process
240	240	Starch Re-Slurry System	Specialty Starch
245	245	East Gluten Storage Bin	Process
246	246	Dried Gluten Receiver	Process
247	247	Wet Bran Conveyor	Process
248	248	Slurry Tank #6	Specialty Starch
249	249	East Gluten Filter Vacuum Pump	Process
250	250	Middle Gluten Filter Vacuum Pump	Process
251	251	West Gluten Filter Vacuum Pump	Process
252	252	Starch Slurry Tank #7	Specialty Starch
254	254	Slurry Tank #5	Specialty Starch
255	255A	Rail Germ Loadout	Process
	255B	Germ Conveying	
258	258	500 kW Back-up Generator	Utilities
260	260	East Dilute Phase Pot	Specialty Starch
262	262	West Dilute Phase Pot	Specialty Starch
263	263	Elevator Tunnel Vacuum Filter	Process
265	265	West Dilute Supersack Receiver	Specialty Starch
266	266	West Dense Supersack Receiver	Specialty Starch
267	267	West Supersack Vacuum System	Specialty Starch
268	268	West Dilute Supersack Surge Bin	Specialty Starch
269	269	West Dense Supersack Surge Bin	Specialty Starch
300	300	C* Film Starch Receiving Filter	Industrial Starch
	301WF	Weight Feeder	
320	320	Dryer	Industrial Starch
	310SH	Starch Hopper	
330	330	Modified Starch Receiving Filter	Industrial Starch
340	340	Sifter	Industrial Starch
350	350	C* Film Final Product Hopper	Industrial Starch
360	360	Product Receiving Filter	Industrial Starch
370	370	C* Film Loadout Surge Hopper	Industrial Starch
380	380	C* Cooling Tower	Industrial Starch
390	390	Food Starch Sifter	Food Starch
410	20A	Germ Dryer Burner	Process
	20BNEW	Gluten Steam Tube Dryer	
	20C	Germ Dryer Sections 1-4	
	20D	Waste Gas Steepwater Evaporator	
	20F	Bran Dewatering System	
	113	Germ Dryer Section 5	
	113B	Germ Dryer Burner	
410	RTO Burner		
450	450	#8 Starch Slurry Tank	Food Starch
452	452	Starch Centrifuge	Industrial Starch
453	1A	Dryer 3 Paddle Mixer	Industrial Starch
	1B	Dryer 3 Rotosieve	
	1C	Dryer 3 Surge Hopper	
454	90A	Dryer 4 Paddle Mixer	Industrial Starch
	90B	Dryer 4 Rotosieve	
	90C	Dryer 4 Surge Hopper	

Emission Point #	Emission Unit #	Emission Unit Description	Process Group
516	516	Refinery Loadout Boiler	Utilities

Table 3 – Insignificant Activities Equipment List

Insignificant Emission Unit #	Insignificant Activities Equipment List
EU-451	Heavy Steepwater Tank (LCPH ATI 7111 / PTO 6841)
IU-10	Aspiration of Sewer Pit
IU-35	Vacuum Filter Pumps
IU-69	Cracked Corn Conveying
IU-148	93% Sulfuric Acid Tank
IU-501	500 Gallon Gas Tank
IU-502	500 Gallon Diesel Tank
IU-513	Mod House Sewer Vent
IU-514	Sewage Drum Vacuum Pump
IU-515	Germ Wash Water Tank
IU-516	Light Steepwater Tank A
IU-517	Light Steepwater Tank B
IU-518	3 rd Stage Fiber Wash Tank
IU-519	6 th Stage Fiber Wash Tank
IU-520	Emergency Flush Water Tank
IU-521	Defoaming Tank
IU-522	Gluten Mill Water Tank
IU-523	Gluten Thickener Feed Tank (East)
IU-524	Dorrclone Feed Tank
IU-525	Dorrclone Wash Water Tank
IU-526	DCWW 93% Sulfuric Acid Tank
IU-527	SBS Mill Storage Tank
IU-528	Gluten Filtrate Spray Wash Tank
IU-529	Blue Tank
IU-530	Mixsteep Tank
IU-531	Neutralizer Tank
IU-532	Hydrolyzate Tank
IU-533	Liquid Holding Tank
IU-534	Mud Tank
IU-535	Sweet H2O Tank
IU-536	Used Carbon Tank
IU-537	Used Carbon Tank
IU-538	Candle Filter Precoat
IU-539	Evap Feed Tank
IU-540	South Hot Well
IU-541	SBS Tank Refinery
IU-542	North Hot Well
IU-543	Quab 69% Storage Tank
IU-545	Temp Chemical Storage
IU-546	#3 Flash Dryer Filtrate Tank
IU-547	#3 Flash Dryer Head Tank
IU-548	#4 Dryer Merco U/F Tank
IU-549	#4 Dryer Head Tank
IU-550	#4 Dryer Filtrate Tank
IU-551	Press Wash Water Tank
IU-552	#4 Flash Dryer CIP Tank
IU-553	Spec Starch Reclaim Tank

Insignificant Emission Unit #	Insignificant Activities Equipment List
IU-554	Liquefaction Deactivation Tank
IU-555	Liquefaction pH Adjustment Tank
IU-556	Neutralization Tank – Specialty
IU-557	Press Starch Head Tank
IU-558	Wash Merco Overflow Tank
IU-559	Wash Merco Feed Tank

II. Plant-Wide Conditions

Facility Name: Cargill, Inc. – Cedar Rapids

Permit Number: 07-TV-006-R3

Permit conditions are established in accordance with 567 Iowa Administrative Code (IAC) rule 22.108.

Permit Duration

The term of this permit is: 5 years

Commencing on: **Month Day, Year**

Ending on: **Month Day, Year**

Amendments, modifications and reopenings of this permit shall be obtained in accordance with 567 IAC rules 22.110 – 22.114. Permits may be suspended, terminated, or revoked as specified in 567 IAC rules 22.115.

Emission Limits

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

Opacity (visible emissions): 20% opacity
Authority for Requirement: LCCO Sec. 10-60(a)

Sulfur Dioxide (SO₂): 500 parts per million by volume (ppmv)
Authority for Requirement: 567 IAC 23.3(3)"e"; LCCO Sec. 10-65(a)(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 (dscf) of exhaust gas, except as provided in 567—21.2(455B), 567—23.1(455B), 567—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 567—23.1(455B) and 567—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 10-62-1 for the process weight rate allocated to such emission point. In any case, 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 or Table 10-62-1 of [LCCO Sec. 10-62(a)], whichever would result in the lowest allowable emission rate.

Authority for Requirement: LCCO Sec. 10-62(a)

The emission standards specified in [LCCO Sec. 10-62] shall apply and those specified in section 10-61, [LCCO Sec. 10-62] and Table 10-62-1 shall not apply to each process of the types listed in the following 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 shall enforce 0.1 grains per dry standard cubic foot of exhaust gas, section 10-61, or [LCCO Sec. 10-62], whichever would result in the lowest achievable emission rate.

Authority for Requirement: LCCO Sec. 10-62(a)(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, racetracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizer, or limestone.
4. Covering, at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.
6. Reducing the speed of vehicles traveling over on-property surfaces as necessary to minimize the generation of airborne dusts.

Authority for Requirement: 567 IAC 23.3(2)"c"; LCCO Sec. 10-66

Regulatory Authority

This facility is in Linn County, Iowa. Linn County Public Health, 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 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. Stack test notifications and test results for tests required as periodic monitoring in the Title V permit shall be submitted to Linn County Public Health. Stack test protocols and test results conducted as required by a PSD permit shall be submitted to the IDNR and Linn County Public Health Air Quality Division.

Authority for Requirement: 567 IAC 22.108

40 CFR 60 Subpart Db Requirements

This facility is subject to Standards of Performance Standards for Industrial-Commercial-Institutional Steam Generating Units. Affected unit(s) at the facility are EUs 100 and 101.

Authority for Requirement: 40 CFR Part 60 Subpart Db
567 IAC 23.1(2)"ccc"
LCCO Sec. 10-62(b)(55)

40 CFR 60 Subpart IIII Requirements

This facility is subject to Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. Affected unit(s) at the facility is EU 258.

Authority for Requirement: 40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"
LCCO Sec. 10-62(b)(77)

40 CFR 63 Subpart EEEE Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline). Affected unit(s) at the facility is EU160.

Authority for Requirement: 40 CFR Part 63 Subpart EEEE
567 IAC 23.1(4)"ce"
LCCO Sec. 10-62(d)(83)

40 CFR 63 Subpart DDDDD Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters. Affected unit(s) at the facility are EUs 100, 101, and 516.

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

40 CFR 63 Subpart ZZZZ Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. Affected unit(s) at the facility are EUs 210 and 258.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
LCCO Sec. 10-62(d)(104)

III. Emission Point-Specific Conditions

Facility Name: **Cargill, Inc. – Cedar Rapids**

Permit Number: **07-TV-006-R3**

Process Group 5 (Industrial Starch)

Emission Point ID Number: 1

Table 4 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
1	1	#3 Starch Flash Dryer	Non-oxidized Starch	15 tph	1	Wet Scrubber
	1A		Oxidized Starch	15 tph		

Applicable Requirements

Table 5 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
1	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6922 / PTO 6802-R1
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
		0.005 gr/dscf		
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec.10-65(a)(2)	
		2 ppm _v		
	VOC	10 ppm ¹		
1.46 lb/ton ²				
THAP	2.5 ppm ¹			
	1.15 lb/ton ²			

¹ This limit applies to non-oxidized starch production.

² This limit applies to oxidized starch production.

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

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. CE-1 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-1.
- B. The recycled liquor flow rate in CE-1 shall be maintained at a minimum of 150 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the averaged recycled liquor flow rate falls below 150 gallons per minute.

- 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.
- D. The owner or operator shall produce no more than 105,000 tons of oxidized starch based on a 12-month rolling basis. The owner or operator shall record the amount of oxidized starch produced monthly and calculate and record 12-month rolling totals.
- E. For purposes of staying a synthetic minor project (LCPH Project 2302) for Prevention of Significant Deterioration (PSD), the owner or operator shall demonstrate the significance of any emission increases as described below for a period of ten (10) years from the startup of the project pursuant to 567 IAC 33.3(18)"f".
 - i. Record the startup date of the sources following the modification or installation of sources associated with project 2302. This date signifies the beginning of the ten (10) year monitoring and recordkeeping period. The baseline actual emissions for the project are equal to the following (tons/year):

Table 6 - Baseline Actual Emissions

PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
39.45	35.87	9.66	240.30	139.44	29.69	224.38

- The baseline actual emissions shall remain unchanged throughout the ten (10) year period.
- ii. The owner or operator shall record the actual emissions for the project on a monthly and calendar year basis. Actual emissions minus the baseline actual emissions from the project shall not exceed the following PSD significant levels (tons/year) per calendar year:

Table 7 - PSD Significance Levels

PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
24.4	14.4	9.4	39.4	39.4	99.4	39.4

This written record shall be retained for a period of ten (10) years after the project is completed. If these limits are exceeded, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7), see Condition [Operating Requirements with Associated Monitoring and Recordkeeping] G.

- F. The owner or operator is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish Baseline Actual Emissions and are unrelated to this project (i.e., increased utilization due to demand growth). The owner or operator shall be required to include a justification for any emissions excluded due to demand growth.
- G. The owner or operator shall submit a report to the Department if the annual emissions, in tons per year, from the project identified in 567 IAC 33.3(18)"f"(1), exceed the baseline actual emissions, as documented and maintained pursuant to subparagraph (4), by an amount that is "significant" as defined in subrule 33.3(1) for that regulated NSR pollutant, and if such emissions differ from the preconstruction projection as documented and maintained pursuant to subparagraph (4). Such report shall be submitted to the Administrator within 60 days after the end of such year. The report shall contain the following:
 - i. The name, address and telephone number of the major stationary source;
 - ii. The annual emissions as calculated pursuant to subparagraph (4) of this section; and
 - iii. Any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection).

Authority for Requirement: LCPH ATI 6922 / PTO 6802-R1

Table 8 - 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
1	60	V	47	106	69,731	LCPH ATI 6922 / PTO 6802-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 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 <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Facility Maintained Operation & Maintenance Plan Required?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Compliance Assurance Monitoring (CAM) Plan Required?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Authority for Requirement: 567 IAC 22.108(3)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 5

Table 9 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
5	5	Soda Ash Storage Bin	Soda Ash	24 tph	5	Baghouse

Applicable Requirements

Table 10 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
5	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 4879 / PTO 4872-R2
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM10	0.01 gr/dscf		

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

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. CE-05 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 CE-05.
- B. 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.

Authority for Requirement: LCPH ATI 4879 / PTO 4872-R2

Table 11 - 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
5	56	H	4 x 5	70	1,120	LCPH ATI 4879 / PTO 4872-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 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 ¹ No

¹ Refer to Appendix C, Facility O&M Plans, for the applicable requirements.

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Process Group 4 (Food Starch) and Process Group 5 (Industrial Starch)

Emission Point ID Number: 6, 8, 9

Table 12 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
6	6	#5 Starch Bulk Storage Bin	Cornstarch	12.5 tph	6	Baghouse
8	8	#7 Starch Bulk Storage Bin	Cornstarch	12.5 tph	8	Baghouse
9	9	C* Starch Bin #8	Cornstarch	7 tph	9	Bin Vent

Applicable Requirements

Table 13 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
6 8 9	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 4460 / PTO 4476-R3 LCPH ATI 4461 / PTO 4477-R3 LCPH ATI 5460 / PTO 5441-R3
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	0.15 lb/hr		
	VOC	0.24 lb/hr; 1.07 tpy		
	THAP	0.06 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

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. CE-6 (CE-8, CE-9) shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-6 (CE-8, CE-9).
- B. The differential pressure across CE-6 (CE-8, CE-9) shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred in or out of the bin. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but not longer than eight (8) hours from observation of the abnormal condition. The owner or operator shall monitor and record the differential pressure across CE-6 (CE-8, CE-9) 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.

Authority for Requirement: LCPH ATI 4460 / PTO 4476-R3; LCPH ATI 4461 / PTO 4477-R3;
LCPH ATI 5460 / PTO 5441-R3

Table 14 - 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
6	73	V	9	72	1,790	LCPH ATI 4460 / PTO 4476-R3
8	73	H	9	72	1,790	LCPH ATI 4461 / PTO 4477-R3
9	65	H	6 x 6	72	1,790	LCPH ATI 5460 / PTO 5441-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 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)

Process Group 3 (Process)

Emission Point ID Number: 11

Table 15 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
11	11	Corn Truck Unload	Corn	600 tph	11	Baghouse

Applicable Requirements

Table 16 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
11	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6068 / PTO 5794-R2
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	0.41 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

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. CE-11 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 CE-11.
- B. The differential pressure across CE-11 shall be maintained between 0.02" and 8.0" w.c. when material is actively being processed. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-11 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.
- D. EU-11 shall be limited to 5,840 hours of operation based on a rolling 12-month total. The owner or operator shall monitor and record the hours of operation on a monthly and 12-month rolling total basis.

Authority for Requirement: LCPH ATI 6068 / PTO 5794-R2

Table 17 - 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	49.5	V	24	68	10,224	LCPH ATI 6068 / PTO 5794-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 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)

Process Group 3 (Process)

Emission Point ID Number: 12

Table 18 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
12	12	Gluten Sizing System	Gluten	9.375 tph	12	Baghouse

Applicable Requirements

Table 19 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
12	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7124 / PTO 6897
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	0.39 lb/hr		
	VOC	0.61 lb/hr; 2.66 tpy		
	THAP	0.15 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

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. CE-12 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-12.
- B. The differential pressure across CE-12 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but not longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-12 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.

Authority for Requirement: LCPH ATI 7124 / PTO 6897

Table 20 - 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
12	72	V	16	70	4,425	LCPH ATI 7124 / PTO 6897

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 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

Refer to Appendix E, Stack Testing Summary, for the applicable requirements.
 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)

Process Group 3 (Process)

Emission Point ID Number: 13

Table 21 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
13	13A	Truck Gluten / Germ Loadout	Gluten, Germ	135 tph	13	Baghouse
	13B	Rail Gluten Loadout	Gluten	135 tph		

Applicable Requirements

Table 22 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
13	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 5674 / PTO 5681-R3
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	3.25 lb/hr		
	VOC	5.80 lb/hr; 25.39 tpy		
	THAP	1.45 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

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. CE-13 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-13.
- B. The differential pressure across CE-13 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but not longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-13 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.
- D. EU-13 shall be limited to 5,840 hours of operation based on a rolling 12-month total. The owner or operator shall monitor and record the hours of operation on a monthly and 12-month rolling total basis.

Authority for Requirement: LCPH ATI 5674 / PTO 5681-R3

Table 23 - 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
13	54	V	20	70	43,239	LCPH ATI 5674 / PTO 5681-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 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 ¹ No

¹ Refer to Appendix B, CAM Plans Summary, for the applicable requirements.

Authority for Requirement: 567 IAC 22.108(3)

Process Group 3 (Process)

Emission Point ID Number: 14

Table 24 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
14	14A	Gluten Scale (Garner Scale)	Gluten	135 tph	14	Baghouse
	13B	Gluten Conveying		135 tph		

Applicable Requirements

Table 25 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
14	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6950 / PTO 6756-R1
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	0.20 lb/hr		
	VOC	0.61 lb/hr; 2.66 tpy		
	THAP	0.15 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

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. CE-14 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-14.
- B. The differential pressure across CE-14 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but not longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-14 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.
- D. EU-14 shall be limited to 5,840 hours of operation based on a rolling 12-month total. The owner or operator shall monitor and record the hours of operation on a monthly and 12-month rolling total basis.

Authority for Requirement: LCPH ATI 6950 / PTO 6756-R1

Table 26 - 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
14	30	V	12	70	4,441	LCPH ATI 6950 / PTO 6756-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 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)

Process Group 3 (Process)

Emission Point ID Number: 15, 16, 17

Table 27 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
15	15	East Germ Bin	Germ	7.5 tph	15	Baghouse
16	16	West Germ Bin	Germ	7.5 tph	16	Baghouse
17	17	West Gluten Bin	Gluten	7.5 tph	17	Baghouse

Applicable Requirements

Table 28 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
15	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 5512 / PTO 5560-R3
16	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 5513 / PTO 5561-R3
17				LCPH ATI 5514 / PTO 5562-R3
15	PM/PM10	0.09 lb/hr		LCPH ATI 5512 / PTO 5560-R3
16	VOC	0.14 lb/hr; 0.61 tpy		LCPH ATI 5513 / PTO 5561-R3
	THAP	0.03 lb/hr		
17	PM/PM10	0.10 lb/hr		LCPH ATI 5514 / PTO 5562-R3
	VOC	0.16 lb/hr; 0.68 tpy		
	THAP	0.04 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

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. CE-15 (CE-16, CE-17) may be shut down while discharging product from the bin while at the same time not actively filling the bin as long as no visible emissions are observed during this process to ensure product quality.
- B. CE-15 (CE-16, CE-17) shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-15 (CE-16, CE-17).
- C. The differential pressure across CE-15 (CE-16, CE-17) shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred in or out of the bin. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-15 (CE-16, CE-17) on a weekly basis.
- 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.

Authority for Requirement: LCPH ATI 5512 / PTO 5560-R3; LCPH ATI 5513 / PTO 5561-R3;
LCPH ATI 5514 / PTO 5562-R3

Table 29 - 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	73	V	6	78	1,027	LCPH ATI 5512 / PTO 5560-R3
16	73	V	6	78	1,027	LCPH ATI 5513 / PTO 5561-R3
17	72	V	6	82	1,163	LCPH ATI 5514 / PTO 5562-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 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)

Process Group 3 (Process)

Emission Point ID Number: 20

Table 30 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
20	20A	Germ Dryer Burner	Natural Gas	0.04 mmcf/hr	20 20C	Wet Scrubber Cyclone
	20C	Germ Dryer Sections 1-4	Germ	8.0 tph dry fiber	20	Wet Scrubber
	20BNEW	Gluten Steam Tube Dryer	Gluten	9.38 tph		
	20D	Waste Gas Steepwater Evaporator	Steepwater	4,583.33 bu/hr		
	20F	Bran Dewatering System ¹	Bran	10.1 tph dry fiber		

¹ EU-20F is also permitted to exhaust through EP-109 and EP-410.

Applicable Requirements

Table 31 - Emission Limits (During RTO (CE-410) Bypass)

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
20	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7402 / PTO 7250
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	
		4.67 lb/hr		
	VOC	24.79 lb/hr		
	THAP	5.06 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

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 (CE-20 and CE-20C).
- B. The recycled liquor flow rate in CE-20 shall be maintained at a minimum of 348 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 348 gallons per minute.
- C. The pH of CE-20 liquor shall be maintained at a minimum of 7.0 based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the pH of CE-20 liquor and record all rolling 3-hour averaging periods (during actual operations) when the average pH falls below 7.0.
- D. The owner or operator may bypass the RTO (CE-410) and exhaust through EP-20 for the purpose of off-line regeneration a maximum of 50 hours per calendar year with no individual off-line regeneration period exceeding 12 hours. The owner or operator shall record the dates and times the RTO (CE-410) is bypassed and update the total bypass hours per calendar year.

- E. The control equipment (CE-20 and 20C) on EUs-20A, 20BNEW, 20C, 20D and 20F shall be operational at all times the process equipment is online with the exception that EU20F may exhaust through EP-109 provided CE-109 is operational.

Authority for Requirement: LCPH ATI 7402 / PTO 7250

Table 32 - 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
20	59.6	V	32	170	31,000	LCPH ATI 7402 / PTO 7250

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 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)

Process Group 3 (Process)

Emission Point ID Number: 23

Table 33 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
23	20A	Germ Dryer Burner	Natural Gas	0.04 mmcf/hr	20C	Cyclone
	20C	Germ Dryer Sections 1-4	Germ	8.0 tph dry germ		

Applicable Requirements

Table 34 - Emission Limits (During RTO (CE-410) Bypass)

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
23	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7064 / PTO 6799-R1
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	
		4.67 lb/hr		
VOC	24.79 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

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 (CE-20C) on Germ Dryer Sections 1-4 (EU-20C) shall be operational at all times the process equipment is online.
- B. The control equipment (cyclone, CE-20C) on the Germ Dryer Sections 1-4 (EU-20C) 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.
- C. The purging of the Germ Dryer Sections 1-4 (EU-20C) during startup through EP-23 is limited to 100 hours per 12-month rolling period. Material shall not be fed into the dryer during the purging process. The owner or operator shall record the dates and times the Germ Dryer Sections 1-4 (EU-20C) is purged during startup and update the total startup purge hours per month and twelve-month rolling period.

Authority for Requirement: LCPH ATI 7064 / PTO 6799-R1

Table 35 - 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
23	59.6	V	32	159	20,740	LCPH ATI 7064 / PTO 6799-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 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)

Process Group 2 (Refinery)

Emission Point ID Number: 24

Table 36 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
24	24	Precoat Bin from Railcar	Precoat	6.67 tph	24	Baghouse

Applicable Requirements

Table 37 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
24	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7664 / PTO 7505
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.034 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

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. CE-24 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 CE-24.
- B. The differential pressure across CE-24 shall be continuously monitored and maintained between 0.02" and 8.0" w.c. (based on a 15-minute block averaging period) when material is actively being transferred. A differential pressure outside of this range, including transmitter failure, would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but not later than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-24 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.

Authority for Requirement: LCPH ATI 7664 / PTO 7505

Table 38 - 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
24	74	VR	12 x 12	Ambient	800 scfm	LCPH ATI 7664 / PTO 7505

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 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)

Process Group 4 (Food Starch)

Emission Point ID Number: 27

Table 39 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
27	27	#3 Starch Bulk Storage Bin	Cornstarch	12.5 tph	27	Baghouse

Applicable Requirements

Table 40 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
27	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 4558 / PTO 4618-R4
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	0.08 lb/hr		
	VOC	0.14 lb/hr		
	THAP	0.03 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

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. CE-27 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-27.
- B. The differential pressure across CE-27 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred in or out of the bin. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-27 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.

Authority for Requirement: LCPH ATI 4558 / PTO 4618-R4

Table 41 - 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
27	74	V	9	72	1,000	LCPH ATI 4558 / PTO 4618-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 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)

Process Group 2 (Refinery)

Emission Point ID Number: 32

Table 42 - Associated Equipment

EP	EU	EU Description	Raw Material / Fuel	Rated Capacity	CE	CE Description
32	32A	Carbon Furnace	Carbon	0.75 tph	32A 32B	Afterburner Venturi & Impingement Scrubbers
	32B	Carbon Furnace Burner	Natural Gas	0.03 MMCF/hr		

Applicable Requirements

Table 43 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
32	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7648 / PTO 7449
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	1.44 lb/hr		
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	
		1.0 lb/hr		
	NO _x	3.28 lb/hr		
	VOC	1.00 lb/hr; 95% DE or ≤ 10 ppm		
	CO	90% DE or ≤ 100 ppm		

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

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 (CE032A and CE032B) 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 CE032A and CE032B.
- B. The recycled liquor flow rate in the venturi scrubber (CE032B) shall be maintained at a minimum of 35 gallons per minute (gpm) on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record the rolling 3-hour averaging periods (during actual operations) when the average recycled flow rate falls below 35 gpm.
- C. The recycled liquor flow rate in the Impinjet scrubber (CE032B) shall be maintained at a minimum of 248 gpm based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record the rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 248 gpm.
- D. The pH of CE032 liquor shall be maintained at a minimum of 7.0 based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the pH of CE032 liquor and record all rolling 3-hour averaging periods (during actual operations) when the average pH falls below 7.0.
- E. The zero hearth furnace temperature shall be operated at a minimum temperature of 1,484 °F. The owner or operator shall monitor the zero hearth temperature continuously.
- F. To determine compliance with the 3-hour average pursuant to Appendices H and K of the Consent Decree 05-CV-02037, the 3-hour average is broken into 8 averaging periods: 12AM to 3AM, 3AM to 6AM, 6AM to 9AM, 9AM to 12PM,

12PM to 3PM, 3PM to 6PM, 6PM to 9PM, and 9PM to 12AM.

- G. Fuel use in EU032B shall be limited to natural gas only. The owner or operator shall maintain records which indicate only natural gas is used.
- H. 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.

Authority for Requirement: LCPH ATI 7648 / PTO 7449

Table 44 - 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
32	104	V	18	224	2,800 scfm	LCPH ATI 7648 / PTO 7449

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 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)

Process Group 2 (Refinery)

Emission Point ID Number: 33

Table 45 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
33	33A	HCl Tank A	HCl	1,123 gallons	33	Packed Bed Scrubber
	33B	HCl Tank B		1,123 gallons		
	33C	Acid Storage Tank		19,500 gallons		
	33D	Acid Head Tank		470 gallons		
	33E	Acidification Tank		375 gallons		
	33F	Converter Feed Tank		2,880 gallons		
	33G	Carbon Column Feed Tank		2,800 gallons		

Applicable Requirements

Table 46 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
33	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6378 / PTO 6116-R5
	PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCCO Sec. 10-62(a)(1)	
	PM/PM10	0.24 lb/hr		
	VOC	0.41 lb/hr; 1.80 tpy		
	THAP	0.54 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

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. CE-33 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-33.
- B. The pH of CE-33 liquor shall be maintained at a minimum of 7.0 based on a rolling 3-hour average basis.¹ The owner or operator shall continuously monitor the pH of CE-33 liquor and record all rolling 3-hour averaging periods (during actual operations) when the average pH falls below 7.0.
- C. The recycled liquor flow rate in CE-33 shall be maintained at a minimum of 62 gallons per minute based on a rolling 3-hour average basis.² The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 62 gallons per minute.
- 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 The owner or operator may reduce the pH for maintenance of the dP transmitter and scrubber flow meter with the fan on for a period of up to an hour each month. Maintain a record of each event.

² The owner or operator may have up to a 6-minute period where the recirculation water is less than 62 gallons per minute while unloading HCl. Maintain a record of each event.

Authority for Requirement: LCPH ATI 6378 / PTO 6116-R5

Table 47 - 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
33	46	V	24	72	1,482	LCPH ATI 6378 / PTO 6116-R5

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 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

Refer to Appendix E, Stack Testing Summary, for the applicable requirements.
 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 ¹ No

¹ Refer to Appendix B, CAM Plans Summary, for the applicable requirements.

Authority for Requirement: 567 IAC 22.108(3)

Process Group 3 (Process)

Emission Point ID Number: 37

Table 48 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
37	37	Corn Cleaning & Convey Aspiration	Corn	8,000 bu/hr	37	Baghouse

Applicable Requirements

Table 49 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
37	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7687 / PTO 7438
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	2.14 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

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. CE-37 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-37.
- B. The differential pressure across CE-37 shall be maintained between 0.02" and 8.0" w.c. when material is actively being processed. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-37 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.

Authority for Requirement: LCPH ATI 7687 / PTO 7438

Table 50 - 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
37	104	V	30 x 30	85	15,115	LCPH ATI 7687 / PTO 7438

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 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)

Process Group 3 (Process)

Emission Point ID Number: 40, 41

Table 51 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
40	40A	Mill Aspiration System	Corn	110,000 BPD based on a 12-month rolling average	40	Packed Bed Scrubber
	40B	Gluten Tank				
	40C	Clarifier Feed Tank				
	40D	Primary Feed Tank				
	40F	MST Feed Tank				
	40G	Millwater Tank				
41	41	Steephouse Aspiration System	Corn	110,000 BPD	41	Wet Scrubber

Applicable Requirements

Table 52 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
40	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	LCPH ATI 7021 / PTO 6800-R2
		0.75 lb/hr		
	VOC	8.25 lb/hr;		
	THAP	1.05 lb/hr		
41	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 6034 / PTO 5761-R2
	PM/PM ₁₀	1.07 lb/hr		
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	
		2.35 lb/hr		
	VOC	9.79 lb/hr		
	SHAP	0.25 lb/hr		
	THAP	0.40 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 (EP 40)

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 (CE-40) shall be maintained according to manufacturer specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment (CE-40).
- B. The recycled liquor flow rate in CE-40 shall be maintained at a minimum of 30 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 30 gallons per minute.
- C. The pH of CE-40 liquor shall be maintained at a minimum of 6.9 based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the pH of CE-40 liquor and record all rolling 3-hour averaging periods (during actual operations) when the average pH falls below 6.9.

Authority for Requirement: LCPH ATI 7021 / PTO 6800-R2

Operating Requirements with Associated Monitoring and Recordkeeping (EP 41)

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. CE-41 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-41.
- B. The pH of CE-41 liquor shall be maintained at a minimum of 6.9 based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the pH of CE-41 liquor and record all rolling 3-hour averaging periods (during actual operations) when the average pH falls below 6.9.
- C. The recycled liquor flow rate in CE-41 shall be maintained at a minimum of 190 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 190 gallons per minute.
- 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.
- E. The facility shall be limited to an average grind rate of 110,000 bushels/day based on a 12-month rolling period. The owner or operator shall monitor and record the grind rate and hours of operation on a daily basis. This data will be used to calculate the monthly average production rate, which must be further reduced to a 12-month rolling average to demonstrate compliance.

Authority for Requirement: LCPH ATI 6034 / PTO 5761-R2

Table 53 - 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
40	39	H	30 x 36	125	8,623	LCPH ATI 7021 / PTO 6800-R2
41	71	V	48	94	25,358	LCPH ATI 6034 / PTO 5761-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 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 (EP 41 only)

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 ¹ No

¹ Facility O&M Plan is required for EP40. Refer to Appendix C, Facility O&M Plans Summary, for the applicable requirements.

Compliance Assurance Monitoring (CAM) Plan Required? Yes ¹ No

¹ CAM Plan required for EP41. Refer to Appendix B, CAM Plans Summary, for the applicable requirements.

Authority for Requirement: 567 IAC 22.108(3)

Process Group 4 (Food Starch)

Emission Point ID Number: 43

Table 54 – Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
43	43	Vacuum Cleaner Vent	Cornstarch	10 tph	43	Baghouse

Applicable Requirements

Table 55 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
43	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 5462 / PTO 5443-R3
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	0.05 lb/hr		
	VOC	0.01 lb/hr; 0.06 tpy		
	THAP	0.00 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

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. CE-43 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-43.
- B. The differential pressure across CE-43 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-43 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.

Authority for Requirement: LCPH ATI 5462 / PTO 5443-R3

Table 56 - 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
43	44	V	7	144	550	LCPH ATI 5462 / PTO 5443-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 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)

Process Group 4 (Food Starch)

Emission Point ID Number: 51

Table 57 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
51	51A	50 Pound Bagger	Starch	5 tph	51	Baghouse
	51B	Industrial Starch Packer	Starch	8 tph ¹		
	51C	Food Starch Super Sacker	Starch	5 tph ¹		
	51D	A & B Bins	Starch	6 tph		

¹ The system is limited to bag either food or industrial starch at one time.

Applicable Requirements

Table 58 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
51	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6951 / PTO 6730-R1
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	0.43 lb/hr		
	VOC	0.34 lb/hr; 1.49 tpy		
	THAP	0.08 lb/hr		

Operating Requirements with Associated Monitoring and Recordkeeping

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. CE-51 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 CE-51.
- B. The differential pressure across CE-51 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-51 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.

Authority for Requirement: LCPH ATI 6951 / PTO 6730-R1

Table 59 - 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
51	47	V	24	82	10,173	LCPH ATI 6951 / PTO 6730-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 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)

Process Group 4 (Food Starch)

Emission Point ID Number: 52

Table 60 – Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
52	52	#1 Starch Bulk Storage	Starch	12.5 tph	52	Baghouse

Applicable Requirements

Table 61 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
52	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 4559 / PTO 4619-R3
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	0.08 lb/hr		
	VOC	0.34 lb/hr; 0.60 tpy		
	THAP	0.03 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

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. CE-52 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-52.
- B. The differential pressure across CE-52 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred in or out of the bin. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-52 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.

Authority for Requirement: LCPH ATI 4559 / PTO 4619-R3

Table 62 - 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
52	74	V	9	72	1,000	LCPH ATI 4559 / PTO 4619-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 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)

Process Group 4 (Food Starch)

Emission Point ID Number: 58

Table 63 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
58	58	Starch Truck Loadout	Starch	7.008 tph	58	Baghouse

Applicable Requirements

Table 64 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
58	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6243 / PTO 6040-R3
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	0.34 lb/hr		
	VOC	0.14 lb/hr; 0.62 tpy		
	THAP	0.04 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

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. CE-58 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 CE-58.
- B. The differential pressure across CE-58 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-58 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.

Authority for Requirement: LCPH ATI 6243 / PTO 6040-R3

Table 65 - 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
58	58	V	10	70	4,078	LCPH ATI 6243 / PTO 6040-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 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)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 61

Table 66 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
61	61A	Modification Tank 4	Starch Slurry	30,000 gallons	61	Packed Bed Scrubber
	61B	Modification Tank 5	Starch Slurry	30,000 gallons		
	61C	Modification Tank 6	Starch Slurry	30,000 gallons		
	61D	Modification Tank 7	Starch Slurry	45,000 gallons		
	61E	Modification Tank 8	Starch Slurry	45,000 gallons		

Applicable Requirements

Table 67 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
61	SO ₂	0.01 lb/hr	567 IAC 23.3(3)"e" LCCO Sec.10-65(a)(2)	LCPH ATI 6960 / PTO 6731-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

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. CE-61 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-61.
- B. The pH of CE-61 liquor shall be maintained at a minimum of 7.0 based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the pH of CE-61 liquor and record all rolling 3-hour averaging periods (during actual operations) when the average pH falls below 7.0.
- C. The recycled liquor flow rate in CE-61 shall be maintained at a minimum of 25 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 25 gallons per minute.
- D. The owner or operator shall produce no more than 105,000 tons of oxidized starch based on a 12-month rolling basis. The owner or operator shall record the amount of oxidized starch produced monthly and calculate and record 12-month rolling totals.

Authority for Requirement: LCPH ATI 6960 / PTO 6731-R1

Table 68 - 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
61	60	V	10	94	1,176	LCPH ATI 6960 / PTO 6731-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 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)

Process Group 4 (Food Starch)

Emission Point ID Number: 65

Table 69 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
65	65	Starch Rail Loadout	Starch	18.173 tph	65	Baghouse

Applicable Requirements

Table 70 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
65	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 2139 / PTO 2246-R5
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	0.4 lb/hr		
	VOC	0.07 lb/hr; 0.30 tpy		
	THAP	0.02 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

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. CE-65 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 CE-65.
- B. The differential pressure across CE-65 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-65 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.

Authority for Requirement: LPCH ATI 2139 / PTO 2246-R5

Table 71 - 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
65	33	D	8 x 8	73	2,013	LCPH ATI 2139 / PTO 2246-R5

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 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)

Process Group 3 (Process)

Emission Point ID Number: 68

Table 72 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
68	68	Cracked Corn Hammermill	Corn	7.66 tph	68	Baghouse

Applicable Requirements

Table 73 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
68	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 5881 / PTO 5582-R3
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM10	0.06 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

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. CE-68 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-68.
- B. The differential pressure across CE-68 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-68 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.

Authority for Requirement: LCPH ATI 5881 / PTO 5582-R3

Table 74 - 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
68	31	V	14 x 14	68	1,302	LCPH ATI 5881 / PTO 5582-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 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)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 70

Table 75 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
70	70A	Starch Modification Tank 1	Starch	24 tph	70	Packed Bed Scrubber
	70B	Starch Modification Tank 2	Starch	24 tph		
	70C	Starch Washer 1	Starch	24 tph		
	70D	Starch Washer 2	Starch	24 tph		
	70E	Soda Ash Storage Tank 3	Soda Ash	24 tph		
	IU-544	SBS Tank Starch	SBS	5,100 gallons		

Applicable Requirements

Table 76 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
70	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7345 / PTO 7125
	PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCCO Sec. 10-62(a)(1)	
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	
		0.35 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

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. CE-70 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 CE-70.
- B. The pH of CE-70 liquor shall be maintained at a minimum of 7.0 based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the pH of CE-70 liquor and record all rolling 3-hour averaging periods (during actual operations) when the average pH falls below 7.0.
- C. The recycled liquor flow rate in CE-70 shall be maintained at a minimum of 12 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 12 gallons per minute.
- D. The owner or operator shall produce no more than 105,000 tons of oxidized starch based on a 12-month rolling basis. The owner or operator shall record the amount of oxidized starch produced monthly and calculate and record 12-month rolling totals.

Authority for Requirement: LCPH ATI 7345 / PTO 7125

Table 77 - 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
70	65	V	25	80	1,369	LCPH ATI 7345 / PTO 7125

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 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

Refer to Appendix E, Stack Testing Summary, for the applicable requirements.
 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)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 71

Table 78 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
71	71A	Starch Modification Tank 9	Starch	50,000 Gallons	71	Packed Bed Scrubber
	71B	Starch Modification Tank 10	Starch	50,000 Gallons		
	71C	Starch Modification Tank 12	Starch	50,000 Gallons		
	71D	Starch Modification Tank 14	Starch	125,000 Gallons		
	71E	Starch Modification Tank 15	Starch	125,000 Gallons		
	71F	Starch Modification Tank 16	Starch	125,000 Gallons		
	71G	Starch Modification Tank 17	Starch	125,000 Gallons		

Applicable Requirements

Table 79 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
71	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6952 / PTO 6814-R2
	PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCCO Sec. 10-62(a)(1)	
	PM/PM ₁₀	0.26 lb/hr		
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	
		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

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. CE-71 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-71.
- B. The pH of CE-71 liquor shall be maintained at a minimum of 7.0 based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the pH of CE-71 liquor and record all rolling 3-hour averaging periods (during actual operations) when the average pH falls below 7.0.
- C. The recycled liquor flow rate in CE-71 shall be maintained at a minimum of 15 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 15 gallons per minute.
- D. The owner or operator shall produce no more than 105,000 tons of oxidized starch based on a 12-month rolling basis. The owner or operator shall record the amount of oxidized starch produced monthly and calculate and record 12-month rolling totals.

Authority for Requirement: LCPH ATI 6952 / PTO 6814-R2

Table 80 - 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
71	71	V	16	80	3,592	LCPH ATI 6952 / PTO 6814-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 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)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 79

Table 81 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
79	79	Industrial Starch Loadout	Starch	80 tph	79	Baghouse

Applicable Requirements

Table 82 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
79	Opacity	0% ¹		DNR PSD 16-A-258-P1 LCPH ATI 5463 / PTO 5345-R3
		40%	567 IAC 23.3(2)"d"	
	PM	0.1 gr/dscf	567 IAC 23.4(7)	
	PM/PM ₁₀	0.01 gr/dscf ¹ ; 0.39 lb/hr ¹ ; 1.7 tpy ¹		
	PM/PM ₁₀	0.31 lb/hr		
	Opacity	20%	LCCO Sec.10-60(a)	
PM	0.1 gr/dscf	LCCO Sec. 10-62(a)(7)		

¹ BACT limit

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

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 differential pressure across CE-79 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-79 on a weekly basis.
- B. 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.
- C. The owner or operator shall produce no more than 105,000 tons of oxidized starch based on a 12-month rolling basis. The owner or operator shall record the amount of oxidized starch produced monthly and calculate and record 12-month rolling totals.
- D. The owner or operator shall operate, inspect, and maintain the control equipment according to manufacturer's specifications. Maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR PSD 16-A-258-P1; LCPH ATI 5463 / PTO 5345-R3

Table 83 - 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
79	42	V	12 x 12	73	4,607	LCPH ATI 5463 / PTO 5345-R3 DNR PSD 16-A-258-P1

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 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)

Process Group 4 (Industrial Starch)

Emission Point ID Number: 85

Table 84 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
85	85	#10 Starch Bulk Storage Bin	Starch	14 tph	85	Baghouse

Applicable Requirements

Table 85 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
85	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 5464 / PTO 5444-R4
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.15 lb/hr		
	VOC	0.24 lb/hr; 1.07 tpy		
	THAP	0.06 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

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 (CE-85) 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 (CE-85).
- B. The differential pressure across CE-85 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred in or out of the bin. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-85 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.

Authority for Requirement: LCPH ATI 5464 / PTO 5444-R4

Table 86 - 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
85	79	H	6 x 6	72	1,791	LCPH ATI 5464 / PTO 5444-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 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)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 90

Table 87 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
90	90	Starch Flash Dryer #4	Non-oxidized Starch	16 tph	90	Wet Scrubber
	90A		Oxidized Starch	16 tph		

Applicable Requirements

Table 88 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
90	Opacity	0% ¹		DNR PSD 16-A-259-P2 LCPH ATI 6923 / PTO 6803-R1
		40%	567 IAC 23.3(2)"d"	
	PM	0.1 gr/dscf	567 IAC 23.4(7)	
	PM/PM ₁₀	0.015 gr/dscf ¹ ; 9.51 lb/hr ¹ ; 41.7 tpy ¹		
	PM/PM ₁₀	0.005 gr/dscf; 9.51 lb/hr		
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e"	
		2 ppm _v		
	VOC	10 ppm		
	THAP	2.5 ppm		
	Opacity	20%	LCCO Sec.10-60(a)	
PM	0.1 gr/dscf	LCCO Sec. 10-62(a)(7)		
SO ₂	500 ppm _v	LCCO Sec. 10-65(a)(2)		

¹ BACT limit

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

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 recycled liquor flow rate in CE-90 shall be maintained at a minimum of 120 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 120 gallons per minute.
- B. 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.
- C. The owner or operator shall produce no more than 105,000 tons of oxidized starch based on a 12-month rolling basis. The owner or operator shall record the amount of oxidized starch produced monthly and calculate and record 12-month rolling totals.
- D. The owner or operator shall operate, inspect, and maintain the control equipment according to manufacturer's specifications. Maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection/maintenance of the control equipment and the monitoring devices.

- E. For purposes of staying a synthetic minor project (LCPH Project 2302) for Prevention of Significant Deterioration (PSD), the owner or operator shall demonstrate the significance of any emission increases as described below for a period of ten (10) years from the startup of the project pursuant to 567 IAC 33.3(18)"f".
- i. Record the startup date of the sources following the modification or installation of sources associated with project 2302. This date signifies the beginning of the ten (10) year monitoring and recordkeeping period. The baseline actual emissions for the project are equal to the following (tons/year):

Table 89 - Baseline Actual Emissions

PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
39.45	35.87	9.66	240.30	139.44	29.69	224.38

- The baseline actual emissions shall remain unchanged throughout the ten (10) year period.
- ii. The owner or operator shall record the actual emissions for the project on a monthly and calendar year basis. Actual emissions minus the baseline actual emissions from the project shall not exceed the following PSD significant levels (tons/year) per calendar year:

Table 90 - PSD Significance Levels

PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
24.4	14.4	9.4	39.4	39.4	99.4	39.4

This written record shall be retained for a period of ten (10) years after the project is completed. If these limits are exceeded, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7), see Condition 5G.

- F. The owner or operator is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish Baseline Actual Emissions and are unrelated to this project (i.e., increased utilization due to demand growth). The owner or operator shall be required to include a justification for any emissions excluded due to demand growth.
- G. The owner or operator shall submit a report to the Department if the annual emissions, in tons per year, from the project identified in 567 IAC 33.3(18)"f"(1), exceed the baseline actual emissions, as documented and maintained pursuant to subparagraph (4), by an amount that is "significant" as defined in subrule 33.3(1) for that regulated NSR pollutant, and if such emissions differ from the preconstruction projection as documented and maintained pursuant to subparagraph (4). Such report shall be submitted to the Administrator within 60 days after the end of such year. The report shall contain the following:
 - i. The name, address and telephone number of the major stationary source;
 - ii. The annual emissions as calculated pursuant to subparagraph (4) of this section; and
 - iii. Any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection).

Authority for Requirement: DNR PSD 16-A-259-P2; LCPH ATI 6923 / PTO 6803-R1

Table 91 - 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
90	84	V	87	106	82,396	LCPH ATI 6923 / PTO 6803-R1 DNR PSD 16-A-259-P2

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 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 ¹ No

¹ Refer to Appendix B, CAM Plans Summary, for the applicable requirements.

Authority for Requirement: 567 IAC 22.108(3)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 91, 92, 93

Table 92 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
91	91	#11 Starch Storage Bin	Starch	14 tph	91	Baghouse
92	92	#12 Starch Storage Bin	Starch	14 tph	92	Baghouse
93	93	#13 Starch Storage Bin	Starch	14 tph	93	Baghouse

Applicable Requirements

Table 93 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
91 92 93	Opacity	0% ¹		DNR PSD 16-A-260-P1
		40%	567 IAC 23.3(2)"d"	LCPH ATI 6923 / PTO 6803
	PM	0.1 gr/dscf	567 IAC 23.4(7)	DNR PSD 16-A-261-P1
	PM/PM ₁₀	0.01 gr/dscf ¹ ; 0.13 lb/hr ¹ ; 0.6 tpy ¹		LCPH ATI 2447 / PTO 2410-R3
				DNR PSD 16-A-262-P1
	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 2445 / PTO 2408-R3
PM	0.1 gr/dscf	LCCO Sec. 10-62(a)(7)	LCPH ATI 2447 / PTO 2410-R3 LCPH ATI 2446 / PTO 2409-R3 LCPH ATI 2445 / PTO 2408-R3	

¹ BACT limit

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

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 differential pressure across CE-91 (CE-92, CE-93) shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred in or out of the bin. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-91 (CE-92, CE-93) on a weekly basis.
- B. 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.
- C. The owner or operator shall produce no more than 105,000 tons of oxidized starch based on a 12-month rolling basis. Record the amount of oxidized starch produced monthly and calculate and record 12-month rolling totals.
- D. The owner or operator shall operate, inspect, and maintain the control equipment according to manufacturer's specifications. Maintain a record of all inspections, maintenance activities, and any actions resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR PSD 16-A-260-P1; LCPH ATI 2447 / PTO 2410-R3
 DNR PSD 16-A-261-P1; LCPH ATI 2446 / PTO 2409-R3
 DNR PSD 16-A-262-P1; LCPH ATI 2445 / PTO 2408-R3

Table 94 - 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
91	117	D	10 x 10	80	1,517	LCPH ATI 2447 / PTO 2410-R3 DNR PSD 16-A-260-P1
92	117	D	10 x 10	80	1,849	LCPH ATI 2446 / PTO 2409-R3 DNR PSD 16-A-261-P1
93	117	D	10 x 10	80	1,849	LCPH ATI 2445 / PTO 2408-R3 DNR PSD 16-A-262-P1

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 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)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 94, 95

Table 95 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
94	94	#18 Industrial Starch Storage Bin	Starch	7 tph	94	Baghouse
95	95	Starch Surge Bin	Starch	14 tph	95	Baghouse

Applicable Requirements

Table 96 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
94	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 5465 / PTO 5445-R4 LCPH ATI 2475 / PTO 2416-R3
95	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO 10-62(a)(7)	
94	PM/PM ₁₀	0.08 lb/hr		LCPH ATI 5465 / PTO 5445-R4
95	PM/PM ₁₀	0.13 lb/hr		LCPH ATI 2475 / PTO 2416-R3

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

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. CE-94 (CE-95) shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-94 (CE-95).
- B. The differential pressure across CE-94 (CE-95) shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred in or out of the bin. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-94 (CE-95) 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.
- D. The owner or operator shall produce no more than 105,000 tons of oxidized starch based on a 12-month rolling basis. The owner or operator shall record the amount of oxidized starch produced monthly and calculate and record 12-month rolling totals.

Authority for Requirement: LCPH ATI 5465 / PTO 5445-R4; LCPH ATI 2475 / PTO 2416-R3

Table 97 - 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
94	123	H	8 x 10	100	900	LCPH ATI 5465 / PTO 5445-R4
95	48	H	14	81	450	LCPH ATI 2475 / PTO 2416-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 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)

Process Group 1 (Utilities)

Emission Point ID Number: 100

Table 98 - Associated Equipment

EP	EU	EU Description	Fuel	Rated Capacity	CE	CE Description	CEMS
100	100	Gas Boiler	Natural Gas	224 MMBtu/hr	100A	Low NO _x Burner	ME-100A – CO ₂ ME-100B - NO _x
					100B	Flue Gas Recirculation	

Applicable Requirements

Table 99 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
100	Opacity	20%	LCCO Sec. 10-60(a)	LCPH ATI 6774 / PTO 6728
	PM	0.2 lb/MMBtu	LCCO Sec. 10-61(a)(3)	
	PM/PM ₁₀	1.66 lb/hr		
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec.10-65(a)(2)	
	NO _x		39.4 tpy	
		0.2 lb/MMBtu	LCCO Sec. 10-62(b)(55) 40 CFR §60.44b	

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:

Table 100 - Applicable NSPS Standards

EU ID	Subpart	Title	Type	Local Reference (LCCO Sec.)	Federal Reference (40 CFR)
100	A	General Conditions	--	10-62(b)	§60.1 – §60.19
	Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	Natural Gas	10-62(b)(55)	§60.40b – §60.49b

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

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

Table 101 - Applicable NESHAP Standards

EU ID	Subpart	Title	Type	Local Reference (LCCO Sec.)	Federal Reference (40 CFR)
100	A	General Conditions	--	10-62(d)(1)	§63.1 – §63.15
	DDDDD	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters	Natural Gas	--	§63.7480 – §63.7575

Authority for Requirement: LCPH ATI 6774 PTO 6728; 40 CFR Part 60 Subpart Db; 40 CFR Part 63 Subpart DDDDD

Operating Requirements with Associated Monitoring & Recordkeeping

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 monitoring requirements of 40 CFR §60.13 [NSPS Subpart A] to comply with LCCO Sec. 10-62(b).
- B. The owner or operator shall meet the standards of 40 CFR §60.44b [NSPS Subpart Db] to comply with LCCO Sec. 10-62(b)(55).
- C. The owner or operator shall meet the testing and emission monitoring procedures of 40 CFR §60.46b and 40 CFR §60.48b [NSPS Subpart Db] to comply with LCCO Sec. 10-62(b)(55).
- D. Fuel in this boiler (EU-100) shall be limited to only natural gas.
- E. Recordkeeping for NSPS Subpart Db shall be done in accordance with 40 CFR §60.49b.
- F. Reporting for NSPS Subpart Db shall be done in accordance with 40 CFR §60.49b.
- G. In accordance with 40 CFR §60.49b(h)(2)"i" the owner or operator of any affected facility that is subject to the nitrogen oxides standard of §60.44b and that combusts natural gas is required to submit excess emission reports for any excess emissions which occurred during the reporting period. In accordance with 40 CFR §60.49b(h)(4)"i" for purposes of §60.48b(g)(1), excess emissions are defined as any calculated 30-day rolling average nitrogen oxide emission rate, as determined under §60.46b(e), which exceeds the applicable emission limits in §60.44b.
- H. In accordance with 40 CFR §60.49b(i) a quarterly report containing the information recorded under 40 CFR §60.49b(g) shall be submitted.
- I. The owner or operator shall calculate and record the NO_x emissions (tons) on a 12-month rolling total basis, updated monthly.

Authority for Requirement: LCPH ATI 6774 / PTO 6728

Continuous Emission Monitoring

The following continuous monitoring requirements apply to this emission point (EP100) and its associated emission unit (EU100) and control equipment (CE100A and 100B).

- A. The following monitoring systems are required:
 - i. *NO_x*:
In accordance with 40 CFR 60.48b(b)"1", the owner or operator shall install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring the NO_x of emissions discharged to the atmosphere. The system shall be designed to meet 40 CFR 60, Appendix B, Performance Specification 2 (PS2) requirements. The specifications of 40 CFR Appendix F (Quality Assurance/Quality Control) shall apply. This monitor shall also be used to demonstrate compliance with the non-NSPS emission standards in this permit.
 - ii. *O₂ or CO₂*:
In accordance with 40 CFR 60.48b(b)"1", the owner or operator shall install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring the oxygen (O₂) or carbon dioxide (CO₂) content of the flue gasses at each location where NO_x emissions are monitored.
- B. The CEMS required in Condition "Continuous Emission Monitoring" A. for NO_x and either O₂ or CO₂ shall be operated, and the data recorded during all periods of operation including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.
- C. The following data requirements shall apply to all CEMS for all emission standards in this permit:
 - (1) The CEMS required by this permit shall be operated and data recorded during all periods of operation of the

emission unit except for CEM breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

(2) For each hour of missing emission data (NO_x), the owner or operator shall follow the guidance of applicable rule, regulation, IAC, and/or consent decree.

D. If requested by the Department, the owner/operator shall coordinate the quarterly cylinder gas audits with the Department to afford the Department the opportunity to observe these audits. The relative accuracy test audits shall be coordinated with the Department.

Authority for Requirement: LCPH ATI 6774 / PTO 6728

Table 102 - 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
100	155	V	108	300	65,603	LCPH ATI 6774 / PTO 6728

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 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)

Table 103 - Continuous Emissions Monitoring

Pollutant:	NO _x	CO ₂
Continuous Emissions Monitor ID:	ME-100B	ME-100A
Operational Specifications:	40 CFR 60, Subparts A & Db	40 CFR 60, Subparts A & Db
Ongoing System Calibration/Quality Assurance:	40 CFR 60, Subparts A & Db	40 CFR 60, Subparts A & Db
Reporting & Recordkeeping:	40 CFR 60, Subparts A & Db	40 CFR 60, Subparts A & Db
Authority for Requirement:	LCPH ATI 6774 / PTO 6728 567 IAC 23.1(2)"ccc" LCCO Sec. 10-62(b)(55)	LCPH ATI 6774 / PTO 6728 567 IAC 23.1(2)"ccc" LCCO Sec. 10-62(b)(55)

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)

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)

Process Group 1 (Utilities)

Emission Point ID Number: 101

Table 104 - Associated Equipment

EP	EU	EU Description	Fuel	Rated Capacity	CE	CE Description	CEMS
101	101	#2 Gas Boiler	Natural Gas	275 MMBtu/hr	101A	Low NO _x Burners	ME-101A – CO ₂
					101B	Flue Gas Recirculation	ME-101B - NO _x

Applicable Requirements

Table 105 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
101	Opacity	20%	LCCO Sec. 10-60(a)	LCPH ATI 7746 / PTO 7507-R1
	PM	0.24 lb/MMBtu	LCCO Sec. 10-61(a)(3)	
	PM/PM ₁₀	1.15 lb/hr		
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec.10-65(a)(2)	
	NO _x	0.08 lb/MMBtu; 96.36 tpy		
0.2 lb/MMBtu		LCCO Sec. 10-62(b)(55) 40 CFR §60.44b		

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:

Table 106 - Applicable NSPS Standards

EU ID	Subpart	Title	Type	Local Reference (LCCO Sec.)	Federal Reference (40 CFR)
101	A	General Conditions	--	10-62(b)	§60.1 – §60.19
	Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	Natural Gas	10-62(b)(55)	§60.40b – §60.49b

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

Table 107 - Applicable NESHAP Standards

EU ID	Subpart	Title	Type	Local Reference (LCCO Sec.)	Federal Reference (40 CFR)
101	A	General Conditions	--	10-62(d)(1)	§63.1 – §63.15
	DDDDD	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters	Natural Gas	--	§63.7480 – §63.7575

Authority for Requirement: LCPH ATI 7746 / PTO 7507-R1; 40 CFR Part 60 Subpart Db
40 CFR Part 63 Subpart DDDDD

Operating Requirements with Associated Monitoring and Recordkeeping

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 combust only pipeline quality natural gas in #2 Gas Boiler (EU-101).
- B. The owner or operator shall meet the monitoring requirements of 40 CFR §60.13 [NSPS Subpart A].
- C. The owner or operator shall meet the standards of 40 CFR §60.44b [NSPS Subpart Db].
- D. The owner or operator shall meet the testing and emission monitoring procedures of 40 CFR §60.46b and 40 CFR §60.48b [NSPS Subpart Db].
- E. The owner or operator shall comply with the reporting and recordkeeping requirements pursuant to 40 CFR §60.49b [NSPS Subpart Db].
 - (1) In accordance with 40 CFR §60.49b(h)(2)"i", the owner or operator of any affected facility that is subject to the nitrogen oxides standard of §60.44b that also combusts natural gas is required to submit excess emission reports for any excess emissions that occurred during the reporting period.
 - (2) In accordance with 40 CFR §60.49b(h)(4)"i", for purposes of §60.48b(g)(1), excess emissions are defined as any calculated 30-day rolling average nitrogen oxide emission rate, as determined under §60.46b(e), which exceeds the applicable emission limits in §60.44b.
 - (3) In accordance with 40 CFR §60.49b(i), a quarterly report containing the information required by 40 CFR §60.49b(g) shall be submitted.
- F. The owner or operator shall maintain the control equipment 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.
- G. For the purposes of staying a synthetic minor project (LCPH Project 5060) for Prevention of Significant Deterioration (PSD), the owner or operator shall demonstrate the significance of any emission increases as described below for a period of five (5) years from the startup of the project pursuant to 567 IAC 33.3(18)"f".
 - (1) Record the startup date of the boiler following the replacement of the economizer. This date signifies the beginning of the five (5) year monitoring and recordkeeping period. The baseline actual emissions for the project are equal to the following (tons/year):

Table 108 – Baseline Actual Emissions

PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
2.5	2.5	2.5	0.15	14.77	3.20	1.41

The baseline actual emissions shall remain unchanged through the five (5) year period.

- (2) The owner or operator shall determine the actual emissions for the project on a monthly and calendar year basis. Actual emissions minus the baseline actual emissions from the project shall not exceed the following PSD significant levels (tons/year) per calendar year:

Table 109 – PSD Significance Levels

PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
24.4	14.4	9.4	39.4	39.4	99.4	39.4

If these limits are exceeded prior to the 5-year period date, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f", see Condition 5.J.

- H. The owner or operator shall record each month the value of the actual emissions minus the baseline actual emissions from the project. This written record shall be retained by the owner or operator for a period of ten (10) years after the project is completed.
- I. The owner or operator is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish Baseline Actual Emissions and are unrelated to this project (i.e., increased utilization due to demand growth). The owner or operator shall be required to include a justification for any emissions excluded due to demand growth.
- J. The owner or operator shall submit a report to the Department if the annual emissions, in tons per year, from the project identified in 567 IAC 33.3(18)"f"(1), exceed the baseline actual emissions (as documented and maintained pursuant to subparagraph (1), by a significant amount (as defined in subrule 33.3(1) for that regulated NSR pollutant, and if such emissions differ from the preconstruction project as documented and maintained pursuant to subparagraph (4)). Such report shall be submitted to the Department within 60 days after the end of each year. The report shall contain the following:
- (1) The name, address, and telephone number of the major stationary source;
 - (2) The annual emissions as calculated pursuant to subparagraph (4) of this section; and
 - (3) Any other information that the owner or operator wishes to include in the report (e.g., an explanation to why the emissions differ from the pre-construction projection).

Authority for Requirement: LCPH ATI 7746 / PTO 7507-R1

Continuous Emission Monitoring

The following continuous monitoring requirements apply to EP 101 and its associated emission unit (EU 101) and control equipment (CE-101A and CE-101B).

- A. The following monitoring systems are required:

- (1) NO_x:

Compliance with the nitrogen oxide (NO_x) emission limits of this permit shall be continuously demonstrated by the owner or operator through the use of a continuous emission monitoring system (CEMS). Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring NO_x emissions discharged to the atmosphere and record the output of the system.

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F, Quality Assurance / Quality Control shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

- (2) O₂ or CO₂:

The owner or operator shall install, calibrate, and operate a CEMS, and record the output of the system, for measuring oxygen (O₂) or carbon dioxide (CO₂) content of the flue gases at each location where NO_x emissions are monitored.

(3) Flowmeter:

The owner or operator shall install, certify, operate, and maintain a continuous flow monitoring system meeting the requirements of 40 CFR Part 60, Appendix B, Performance Specification 6 of 40 CFR 60, Appendix F, Procedure 1. In addition, the owner or operator shall record the output of the system, for measuring the volumetric flow of exhaust gases discharged to the atmosphere; or

Alternatively, data from a continuous flow monitoring system certified according to the requirements of 40 CFR §75.20(c) and 40 CFR 75, Appendix A, and continuing to meet the applicable quality control and quality assurance requirements of 40 CFR §75.21 and 40 CFR 75, Appendix B, may be used.

B. The CEMS required in Condition 6.A for NO_x and either O₂ or CO₂ shall be operated, and the data recorded during all periods of operation including periods of startup, shutdown, malfunction, or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.

C. If requested by the Department, the owner/operator shall coordinate the quarterly cylinder gas audits with the Department to afford the Department the opportunity to observe these audits. The relative accuracy test audits shall be coordinated with the Department.

Authority for Requirement: LCPH ATI 7746 / PTO 7507-R1

Table 110 - 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
101	27	V	55	360	87,900	LCPH ATI 7746 / PTO 7507-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 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)

Table 111 - Continuous Emissions Monitoring

Pollutant:	NO _x	CO ₂
Continuous Emissions Monitor ID:	ME-101B	ME-101A
Operational Specifications:	40 CFR 60, Subparts A & Db	40 CFR 60, Subparts A & Db
Ongoing System Calibration/Quality Assurance:	40 CFR 60, Subparts A & Db	40 CFR 60, Subparts A & Db
Reporting & Recordkeeping:	40 CFR 60, Subparts A & Db	40 CFR 60, Subparts A & Db
Authority for Requirement:	LCPH ATI 6773 / PTO 6607-R1 567 IAC 23.1(2)"ccc" LCCO Sec. 10-62(b)(55)	LCPH ATI 6773 / PTO 6607-R1 567 IAC 23.1(2)"ccc" LCCO Sec. 10-62(b)(55)

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)

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)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 102, 103, 104, 105

Table 112 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
102	102	#14 Starch Storage Bin	Starch	14 tph	102	Bag Filter
103	103	#15 Starch Storage Bin	Starch	14 tph	103	Bin Vent Filters
104	104	#16 Starch Storage Bin	Starch	14 tph	104	Bag Filter
105	105	#17 Starch Storage Bin	Starch	14 tph	105	Bag Filter

Applicable Requirements

Table 113 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
102	Opacity	20%	LCCO Sec. 10-60(a)	LCPH ATI 2563 / PTO 2559-R3
103	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 5466 / PTO 5446-R3
104				LCPH ATI 2565 / PTO 2558-R3
105				LCPH ATI 2566 / PTO 2556-R3
102				LCPH ATI 2563 / PTO 2559-R3
103	PM/PM ₁₀	0.26 lb/hr		LCPH ATI 5466 / PTO 5446-R3
104	PM/PM ₁₀	0.08 lb/hr		LCPH ATI 2565 / PTO 2558-R3
105	PM/PM ₁₀	0.26 lb/hr		LCPH ATI 2566 / PTO 2556-R3

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

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. CE-102 (CE-103, CE-104, CE-105) shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-102.
- B. The differential pressure across CE-102 (CE-103, CE-104, CE-105) shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred in or out of the bin. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-102 (CE-103, CE-104, CE-105) 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.
- D. The owner or operator shall produce no more than 105,000 tons of oxidized starch based on a 12-month rolling basis. The owner or operator shall record the amount of oxidized starch produced monthly and calculate and record 12-month rolling totals.

Authority for Requirement: LCPH ATI 2563 / PTO 2559-R3; LCPH ATI 5466 / PTO 5446-R3
LCPH ATI 2565 / PTO 2558-R3; LCPH ATI 2566 / PTO 2555-R3

Table 114 - 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
102	117	D	10 x 10	80	900	LCPH ATI 2563 / PTO 2559-R3
103	122	H	8 x 10	100	900	LCPH ATI 5466 / PTO 5446-R3
104	124	D	10 x 10	70	900	LCPH ATI 2565 / PTO 2558-R3
105	124	H	10 x 10	70	900	LCPH ATI 2566 / PTO 2556-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 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)

Process Group 3 (Process)

Emission Point ID Number: 109

Table 115 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
109	109A	Gluten Filter Aspiration	Gluten	110,000 bu/day	109	Packed Bed Scrubber
	20F	Bran Dewatering System	Bran	10.1 tph		

Applicable Requirements

Table 116 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
109	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec.10-65(a)(2)	LCPH ATI 6953 / PTO 6815-R2
		0.31 lb/hr		
	VOC	5.12 lb/hr		
	THAP	0.20 lb/hr		

Operating Requirements with Associated Monitoring and Recordkeeping

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 (CE-109) shall be maintained according to the manufacturer specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on the control equipment (CE-109).
- B. The recycled liquor flow rate in CE-109 shall be maintained at a minimum of 300 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 300 gallons per minute.
- C. The pH of CE-109 liquor shall be maintained at a minimum of 7.0 based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the pH of CE-109 liquor and record all rolling 3-hour averaging periods (during actual operations) when the average pH falls below 7.0.

Authority for Requirement: LCPH ATI 6953 / PTO 6815-R2

Table 117 - 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
109	50	V	28 x 40	77	8,401 scfm	LCPH ATI 6953 / PTO 6815-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 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)

Process Group 3 (Process)

Emission Point ID Number: 113

Table 118 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
113	113	Germ Fluid Bed Dryer Section 5	Germ	8.0 tph dry germ	113	Cyclone
	113B	Germ Dryer Burner	Natural Gas	0.04 mmcf/hr		

Applicable Requirements

Table 119 - Emission Limits (During RTO (CE-410) Bypass)

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
113	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7065 / PTO 6801-R1
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	
		0.34 lb/hr		
	VOC	1.57 lb/hr		
THAP	0.97 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

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 (CE-113) on EU-113 shall be operational at all times the process equipment is online.
- B. 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 (CE-113).
- C. The purging of EU-113 during startup through EP-113 is limited to 100 hours per 12-month rolling period. Material shall not be actively fed into the dryer during the purging process. The owner or operator shall record the dates and times of EU-113 startup purge hours and update the total startup purge hours per month and twelve-month rolling period.
- D. The owner or operator may bypass the RTO (CE-410) and exhaust through EP-113 for the purpose of off-line regeneration a maximum of 50 hours per calendar year with no individual off-line regeneration period exceeding 12 hours. The owner or operator shall record the dates and times the RTO (CE-410) is bypassed for off-line regeneration and update the total bypass hours per calendar year.

Authority for Requirement: LCPH ATI 7065 / PTO 6801-R1

Table 120 - 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
113	56.6	V	28	175	17,000	LCPH ATI 7065 / PTO 6801-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 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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 115

Table 121 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
115	115	Bulk Truck Loadout	Starch	14 tph	115	Baghouse

Applicable Requirements

Table 122 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
115	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 2739 / PTO 3668-R2
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	VOC	0.056 lb/hr; 0.08 tpy		
	THAP	0.014 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

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. CE-115 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 CE-115.
- B. The differential pressure across CE-115 shall be maintained between 0.1" and 8.0" w.c. The owner or operator shall monitor and record the differential pressure across CE-115 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.

Authority for Requirement: LCPH ATI 2739 / PTO 3668-R2

Table 123 - 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
115	35	H	4 x 5	68	410	LCPH ATI 2739 / PTO 3668-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 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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 116

Table 124 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
116	116A	#5 Starch Dryer	Starch	2 tph	116A	Baghouse
	116B	Starch Dryer Burner	Natural Gas	18 MMBtu/hr	116B	Baghouse

Applicable Requirements

Table 125 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
116	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7532 / PTO 7405
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	2.18 lb/hr		
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	
	CO	1.48 lb/hr		
	VOC	4.03 lb/hr; 17.65 tpy		
	THAP	2.04 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

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. CE-116A and CE-116B shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-116A and CE-116B.
- B. The differential pressure across CE-116A and CE-116B shall each be continuously monitored and maintained between 0.02" and 8.0" w.c. (based on a 15-minute block averaging period) when material is actively being dried. A differential pressure outside of this range, including transmitter failure, would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-116A and CE-116B on a weekly basis.
- C. Fuel in EU-116B shall be limited to natural gas only. The owner or operator shall maintain records which indicate natural gas is the only fuel combusted in EU-116B.
- 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.
- E. For purposes of staying a synthetic minor project (LCPH Project 4806) for Prevention of Significant Deterioration (PSD), the owner or operator shall demonstrate the significance of any emission increases as described below for a period of ten (10) years from the startup of the project pursuant to 567 IAC 33.3(18)"f".
 - i. Record the startup date of the sources following the modification or installation of sources associated with project 4806. This date signifies the beginning of the ten (10) year monitoring and recordkeeping period. The baseline actual emissions for the project are equal to the following (tons/year):

Table 126 - Baseline Actual Emissions

PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
49.14	49.14	33.28	20.87	50.55	57.61	209.31

The baseline actual emissions shall remain unchanged throughout the ten (10) year period.

- ii. The owner or operator shall record the actual VOC emissions for the project on a monthly and calendar year basis. Actual emissions minus the baseline actual emissions from the project shall not exceed the following PSD significant levels (tons/year) per calendar year:

Table 127 - PSD Significance Levels

PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
24.4	14.4	9.4	39.4	39.4	99.4	39.4

This written record shall be retained for a period of ten (10) years after the project is completed. If these limits are exceeded, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7), see Condition [Operating Requirements with Associated Monitoring and Recordkeeping] G.

- F. The owner or operator is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish Baseline Actual Emissions and are unrelated to Project 4806 (i.e., increased utilization due to demand growth). The owner or operator shall be required to include a justification for any emissions excluded due to demand growth.
- G. The owner or operator shall submit a report to the Department if the annual emissions, in tons per year, from Project 4806 identified in 567 IAC 33.3(18)"f"(1), exceed the baseline actual emissions, as documented and maintained pursuant to subparagraph (4), by an amount that is "significant" as defined in subrule 33.3(1) for that regulated NSR pollutant, and if such emissions differ from the preconstruction projection as documented and maintained pursuant to subparagraph (4). Such report shall be submitted to the Administrator within 60 days after the end of such year. The report shall contain the following:
 - i. The name, address and telephone number of the major stationary source;
 - ii. The annual emissions as calculated pursuant to subparagraph (4) of this section; and
 - iii. Any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection).

Authority for Requirement: LCPH ATI 7532 / PTO 7405

Table 128 - 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
116	114	V	40	197	52,193	LCPH ATI 7532 / PTO 7405

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 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 ¹ No

¹ Refer to Appendix B, CAM Plans Summary, for the applicable requirements.

Authority for Requirement: 567 IAC 22.108(3)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 118

Table 129 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
118	118	Salt Storage Bin	Sodium Sulfate	12.5 tph	118	Baghouse

Applicable Requirements

Table 130 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
118	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 4276 / PTO 4264-R1
	PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCCO Sec. 10-62(a)(1)	
	PM/PM ₁₀	0.09 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

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. CE-118 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-118.
- B. The differential pressure across CE-118 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-118 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.

Authority for Requirement: LCPH ATI 4276 / PTO 4264-R1

Table 131 - 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	50	H	6 x 14	70	1,100	LCPH ATI 4276 / PTO 4264-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 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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 119, 120, 121

Table 132 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
119	119	#101 Starch Bulk Storage Bin	Starch	2 tph	119	Baghouse
120	120	#102 Starch Bulk Storage Bin	Starch	2 tph	120	Baghouse
121	121	#103 Starch Bulk Storage Bin	Starch	2 tph	121	Baghouse

Applicable Requirements

Table 133 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
119 120 121	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6392 / PTO 6247-R3 LCPH ATI 6393 / PTO 6248-R3 LCPH ATI 6394 / PTO 6249-R3
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.05 lb/hr		
	VOC	0.08 lb/hr; 0.36 tpy		
	THAP	0.02 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

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. CE-119 (CE-120, CE-121) shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-119 (CE-120, CE-121).
- B. The differential pressure across CE-119 (CE-120, CE-121) shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred in or out of the bin. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-119 (CE-120, CE-121) 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.

Authority for Requirement: LCPH ATI 6392 / PTO 6247-R3; LCPH ATI 6393 / PTO 6248-R3
LCPH ATI 6394 / PTO 6249-R3

Table 134 - 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
119	110	H	5 x 5	70	600	LCPH ATI 6392 / PTO 6247-R3
120	90	H	5 x 5	70	600	LCPH ATI 6393 / PTO 6248-R3
121	87	H	5 x 5	70	600	LCPH ATI 6394 / PTO 6249-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 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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 124

Table 135 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
124	124	Packer Hopper Vent	Corn	20 tph	124	Baghouse

Applicable Requirements

Table 136 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
124	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6587 / PTO 6548-R1
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.03 lb/hr		
	VOC	0.01 lb/hr; 0.06 tpy		
	THAP	0.00 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

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. CE-124 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 CE-124.
- B. The differential pressure across CE-124 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-124 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.

Authority for Requirement: LCPH ATI 6587 / PTO 6548-R1

Table 137 - 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
124	69	VR	6 x 6	70	300	LCPH ATI 6587 / PTO 6548-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 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)

Process Group 3 (Process)

Emission Point ID Number: 130

Table 138 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
130	130	Corn Silos 1, 2, 3 and 4	Corn	600 tph	130	Single Sock Filter

Applicable Requirements

Table 139 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
130	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6069 / PTO 5795-R2
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.04 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

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. CE-130 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 CE-130.
- B. 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.

Authority for Requirement: LCPH ATI 6069 / PTO 5795-R2

Table 140 - 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
130	123	VR	18	68	462	LCPH ATI 6069 / PTO 5795-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 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)

Process Group 4 (Food Starch)

Emission Point ID Number: 149

Table 141 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
149	149	Starch Bulk Bagger	Starch	15 tph	149	Baghouse

Applicable Requirements

Table 142 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
149	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 2977 / PTO 3662-R4
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.26 lb/hr		
	VOC	0.20 lb/hr; 0.90 tpy		
	THAP	0.05 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

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. CE-149 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-149.
- B. The differential pressure across CE-149 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-149 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.

Authority for Requirement: LCPH ATI 2977 / PTO 3662-R4

Table 143 - 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
149	40	D	4 x 5	70	1,500	LCPH ATI 2977 / PTO 3662-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 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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 153

Table 144 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
153	153	Sodium Sulfate Receiving	Sodium Sulfate	12.5 tph	153	Baghouse

Applicable Requirements

Table 145 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
153	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 5677 / PTO 5439-R1
	PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCCO Sec. 10-62(a)(1)	
	PM/PM ₁₀	0.04 lb/hr		

Operational Limits & Requirements

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

Control Device

A baghouse shall be installed to control particulate matter emissions. The control equipment shall be maintained and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5677 / PTO 5439-R1

Operating Limits

A. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 5677 / PTO 5439-R1

Operating Condition Monitoring and Recordkeeping

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 owner or operator shall maintain records of all maintenance completed on the control device.

Authority for Requirement: LCPH ATI 5677 / PTO 5439-R1

Table 146 - 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
153	8.05	V	6	70	500	LCPH ATI 5677 / PTO 5439-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 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)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 155

Table 147 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
155	155	Industrial Grade Packer / Blower	Starch	20 tph	155	Dust Collector

Applicable Requirements

Table 148 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
155	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 3715 / PTO 4212-R4
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.12 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

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. CE-155 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-155.
- B. The differential pressure across CE-155 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-155 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.
- D. The owner or operator shall produce no more than 105,000 tons of oxidized starch per rolling 12-month period. Record monthly the amount of oxidized starch produced, calculate, and record the 12-month rolling totals.

Authority for Requirement: LCPH ATI 3715 / PTO 4212-R4

Table 149 - 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
155	38	H	8	70	5,280	LCPH ATI 3715 / PTO 4212-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 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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 160

Table 150 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
160	160A	PO Storage	PO	12.1 tph	160	Packed Bed Scrubber
	160C	Reactor #131	Starch			
	160D	Reactor #132				
	160E	Reactor #134				
	160F	Reactor #135				
	160H	Stripper #2				

Applicable Requirements

Table 151 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement
160	VOC	190.7 ppm _{vd} ; 1.65 lb/hr	LCPH ATI 5876 / PTO 5740-R3
	SHAP	168.6 ppm _{vd} ; 1.52 lb/hr	
	THAP	174.3 ppm _{vd} ; 1.54 lb/hr	

Operational Limits & Requirements

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

Federal Standards

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

Table 152 - Applicable NESHAP Standards

EU ID	Subpart	Title	Type	Local Reference (LCCO Sec.)	Federal Reference (40 CFR)
160A	A	General Conditions	--	10-62(d)(1)	§63.1 – §63.15
	EEEE	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	--	10-62(d)(83)	§63.2330 - §63.2406

Authority for Requirement: LCPH ATI 5876 / PTO 5740-R3; 40 CFR 63 Subpart EEEE

Operating Requirements with Associated Monitoring and Recordkeeping

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 (CE160) shall be maintained according to the manufacturer's specifications and good operating practices. The owner or operator shall maintain a record of the date and description of all maintenance completed on the control equipment.
- B. The recycled liquor flow rate in the control equipment (CE160) shall be maintained at a minimum of 100 gallons per minute based on a rolling 3-hour average. The owner or operator shall continuously monitor the recycled liquor flow rate and record all 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 100 gallons per minute.

- C. The following NESHAP Subpart EEEE requirements shall apply:
- (1) The owner or operator shall meet the applicable emission limitations, operating limits, and work practice standards (40 CFR §63.2346).
 - (2) The owner or operator shall meet the applicable general compliance requirements (40 CFR §63.2350)
 - (3) The owner or operator shall meet the applicable testing and initial compliance requirements (40 CFR §63.2358 and §63.2370).
 - (4) The owner or operator shall meet the applicable continuous compliance requirements (40 CFR §63.2378).
 - (5) The owner or operator shall meet the applicable notification, reports, and records requirements (40 CFR §63.2382, §63.2386, §63.2390, and §63.2394).
 - (6) The owner or operator shall comply with other applicable requirements (40 CFR §63.2398).

Authority for Requirement: LCPH ATI 5876 / PTO 5740-R3

Table 153 - 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
160	66	V	24	70	1,000	LCPH ATI 5876 / PTO 5740-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 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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 161

Table 154 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
161	161A	POCL ₃ Storage Tank	Sulfate, POCL ₃	12.1 ton/hr	161	Packed Bed Scrubber
	161B	Sulfuric Acid Storage Tank	Sulfuric Acid	1,200 gallons		
	161C	Deactivation Tank	Starch Slurry	50 gallons		
	161D	Modification Tank #101		12.1 ton/hr		
	161E	Modification Tank #102		12.1 ton/hr		
	161F	Modification Tank #103		12.1 ton/hr		
	161G	Modification Tank #104		12.1 ton/hr		
	161H	nOSA Tank		7,000 gallons		
	161I	Modification Tank #105		55,000 gallons		

Applicable Requirements

Table 155 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
161	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6961 / PTO 6732-R1
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.08 lb/hr		
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	
		0.017 lb/hr		
	VOC	0.83 lb/hr; 3.62 tpy		
THAP	0.83 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

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. CE-161 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 CE-161.
- B. The recycled liquor flow rate in CE-161 shall be maintained at a minimum of 20 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 20 gallons per minute.

Authority for Requirement: LCPH ATI 6961 / PTO 6732-R1

Table 156 - 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
161	42	V	12	90	1,460	LCPH ATI 6961 / PTO 6732-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 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.

Stack Testing

Refer to Appendix E, Stack Testing Summary, for the applicable requirements.

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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 162

Table 157 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
162	162A	Flash Dryer #6	Starch	10.1 tph	162	Wet Scrubber
	162B	Flash Dryer #6 Burner	Natural Gas	21 MMBtu/hr		

Applicable Requirements

Table 158 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
162	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7533 / PTO 7404
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	3.07 lb/hr		
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	
	CO	1.72 lb/hr		
	VOC	6.52 lb/hr; 28.57 tpy		
	THAP	2.68 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

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. CE-162 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-162.
- B. Fuel in EU-162B shall be limited to natural gas only. The owner or operator shall maintain records which indicate natural gas is the only fuel combusted in EU-162B.
- C. EU-162B shall be limited to 132.8 MMcf/yr of natural gas combusted based on a 12-month rolling total basis. The owner or operator shall monitor and record the amount of natural gas combusted on a monthly and 12-month rolling total basis.
- D. The recycled liquor flow rate in CE-162 shall be maintained at a minimum of 150 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 150 gallons per minute.
- 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. For purposes of staying a synthetic minor project (LCPH Project 4806) for Prevention of Significant Deterioration (PSD), the owner or operator shall demonstrate the significance of any emission increases as described below for a period of ten (10) years from the startup of the project pursuant to 567 IAC 33.3(18)"f".
 - i. Record the startup date of the sources following the modification or installation of sources associated with Project 4806. This date signifies the beginning of the ten (10) year monitoring and recordkeeping period. The baseline actual emissions for the project are equal to the following (tons/year):

Table 159 - Baseline Actual Emissions

PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
49.14	49.14	49.14	20.87	50.55	57.61	209.31

- The baseline actual emissions shall remain unchanged throughout the ten (10) year period.
- ii. The owner or operator shall record the actual VOC emissions for Project 4806 on a monthly and calendar year basis. Actual emissions minus the baseline actual emissions from the project shall not exceed the following PSD significant levels (tons/year) per calendar year:

Table 160 - PSD Significance Levels

PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
24.4	14.4	9.4	39.4	39.4	99.4	39.4

This written record shall be retained for a period of ten (10) years after Project 4806 is completed. If these limits are exceeded, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7), see Condition [Operating Requirements with Associated Monitoring and Recordkeeping] H.

- G. The owner or operator is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish Baseline Actual Emissions and are unrelated to Project 4806 (i.e., increased utilization due to demand growth). The owner or operator shall be required to include a justification for any emissions excluded due to demand growth.
- H. The owner or operator shall submit a report to the Department if the annual emissions, in tons per year, from Project 4806 identified in 567 IAC 33.3(18)"f"(1), exceed the baseline actual emissions, as documented and maintained pursuant to subparagraph (4), by an amount that is "significant" as defined in subrule 33.3(1) for that regulated NSR pollutant, and if such emissions differ from the preconstruction projection as documented and maintained pursuant to subparagraph (4). Such report shall be submitted to the Administrator within 60 days after the end of such year. The report shall contain the following:
 - i. The name, address and telephone number of the major stationary source;
 - ii. The annual emissions as calculated pursuant to subparagraph (4) of this section; and
 - iii. Any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection).

Authority for Requirement: LCPH ATI 7533 / PTO 7404

Table 161 - 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
162	120	V	77	120	60,298	LCPH ATI 7533 / PTO 7404

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 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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 164, 165, 166, 167, 169

Table 162 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
164	164	Storage Bin #104	Starch	9 tph	164	Baghouse
165	165	Storage Bin #105	Starch	9 tph	165	Baghouse
166	166	Storage Bin #106	Starch	9 tph	166	Baghouse
167	167	Specialty Starch Bin #107	Starch	10 tph	167	Baghouse
169	169	Specialty Starch Bin #109	Starch	10 tph	169	Baghouse

Applicable Requirements

Table 163 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
164	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 4026 / PTO 4461-R3
165	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 4027 / PTO 4462-R3
166				LCPH ATI 4028 / PTO 4463-R3
167				LCPH ATI 5320 / PTO 5580-R3
169				LCPH ATI 5321 / PTO 5581-R3
164				PM/PM ₁₀
165	VOC	0.11 lb/hr; 0.48 tpy		
166	THAP	0.03 lb/hr		
167	PM/PM ₁₀	0.08 lb/hr	LCPH ATI 5320 / PTO 5580-R3 LCPH ATI 7669 / PTO 7445	
169	VOC	0.16 lb/hr; 0.72 tpy		
	THAP	0.04 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

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. CE-164 (CE-165, CE-166, CE-167, CE-169) shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-164 (CE-165, CE-166, CE-167, CE-169).
- B. The differential pressure across CE-164 (CE-165, CE-166, CE-167, CE-169) shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred in or out of the bin. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-164 (CE-165, CE-166, CE-167, CE-169) 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.

Authority for Requirement: LCPH ATI 4026 / PTO 4461-R3; LCPH ATI 4027 / PTO 4462-R2;
LCPH ATI 4028 / PTO 4463-R2; LCPH ATI 5320 / PTO 5580-R3
LCPH ATI 7669 / PTO 7445

Table 164 - 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
164	105	H	5 x 5	70	800	LCPH ATI 4026 / PTO 4461-R3
165	105	H	4 x 5	70	800	LCPH ATI 4027 / PTO 4462-R3
166	102	H	5 x 5	70	800	LCPH ATI 4028 / PTO 463-R3
167	104	D	5 x 6	70	1,200	LCPH ATI 5320 / PTO 5580-R3
169	112	H	12 x 14	70	1,200	LCPH ATI 7669 / PTO 7445

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 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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 170

Table 165 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
170	170	Specialty Starch Warehouse Receiver	Starch	12.5 tph	170	Baghouse

Applicable Requirements

Table 166 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
170	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6618 / PTO 6549-R4
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.13 lb/hr		
	VOC	5 ppm		
	THAP	1.25 ppm		

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

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. CE-170 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-170.
- B. The differential pressure across CE-170 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-170 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.

Authority for Requirement: LCPH ATI 6618 / PTO 6549-R4

Table 167 - 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
170	79	H	6 X 12	70	1,500 scfm	LCPH ATI 6618 / PTO 6549-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 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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 171, 173, 174, 175

Table 168 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
171	171	Starch Storage Bin 108	Starch	17.5 tph	171	Baghouse
173	173A	Starch Packer		12.5 tph	173	Baghouse
	173B	Super Sacker		12.5 tph		
	173C	Cleanup Vacuum		12.5 tph		
174	174	Grinder Discharge Receiver		12.5 tph	174	Dust Collector
175	175	Warehouse Vacuum Receiver		12.5 tph	175	Dust Collector

Applicable Requirements

Table 169 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement	
171	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7668 / PTO 7506	
173	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 6727 / PTO 6471-R1	
174				LCPH ATI 4272 / PTO 4467-R3	
171	PM/PM ₁₀	0.06 lb/hr	LCCO Sec. 10-58(c)(3) 567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 7668 / PTO 7506	
	VOC	0.05 lb/hr; 0.22 tpy			
	THAP	0.01 lb/hr			
173	PM/PM ₁₀	0.32 lb/hr		LCCO Sec. 10-58(c)(3) 567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 6727 / PTO 6471-R1
	VOC	0.75 lb/hr; 3.30 tpy			
	THAP	0.19 lb/hr			
174	PM/PM ₁₀	0.04 lb/hr	LCCO Sec. 10-58(c)(3) 567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)		LCPH ATI 4272 / PTO 4467-R3
	VOC	0.03 lb/hr; 0.15 tpy			
	THAP	0.01 lb/hr			
175	Opacity	No Visible Emissions		LCCO Sec. 10-58(c)(3) 567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 4273 / PTO 4468-R4
	PM	0.1 gr/dscf			
	PM/PM ₁₀	0.01 lb/hr			
	VOC	0.04 lb/hr; 0.18 tpy			
	THAP	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

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. CE-171 (CE-173, CE-174, CE-175) shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-171 (CE-173, CE-174, CE-175).
- B. The differential pressure across CE-171 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred in or out of the bin. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential

pressure across CE-171 on a weekly basis.

- C. The differential pressure across CE-173 (CE-174, CE-175) shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-173 on a weekly basis. The owner or operator shall monitor and record the differential pressure across CE-173 (CE-174, CE-175) on a weekly basis.
- 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. **(EP's 171, 173, and 174 only)**

Authority for Requirement: LCPH ATI 4270 / PTO 4465-R3; LCPH ATI 6727 / PTO 6471-R2;
LCPH ATI 4272 / PTO 4467-R3; LCPH ATI 4273 / PTO 4468-R4

Table 170 - 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
171	102	H	6 x 14	70	1,465	LCPH ATI 4270 / PTO 4465-R3
173	67	VR	28	68	15,000	LCPH ATI 6727 / PTO 6471-R2
174	8	H	6	70	1,011	LCPH ATI 4272 / PTO 4467-R3
175	9	I	24 x 24	70	300	LCPH ATI 4273 / PTO 4468-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 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 (EP's 171, 173, and 174 only)

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)

Process Group 3 (Process)

Emission Point ID Number: 176

Table 171 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
176	176A	Waxy Corn Silo #1	Corn	75,000 bushels	176	Baghouse
176	176B	Waxy Corn Silo #2		75,000 bushels		

Applicable Requirements

Table 172 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
176	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 4330 / PTO 4469-R4
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.13 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

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. CE-176 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-176.
- B. The differential pressure across CE-176 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-176 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.

Authority for Requirement: LCPH ATI 4330 / PTO 4469-R4

Table 173 - 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
176	118	H	11 x 12	70	3,000	LCPH ATI 4330 / PTO 4469-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 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)

Process Group 3 (Process)

Emission Point ID Number: 177

Table 174 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
177	177	Grain Receiving Pit	Grain	10,000 bu/hr	177	Baghouse

Applicable Requirements

Table 175 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
177	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7541 / PTO 7378
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.64 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

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. CE-177 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-177.
- B. The differential pressure across CE-177 shall be continuously monitored and maintained between 0.02" and 8.0" w.c. (based on a 15-minute block averaging period) when material is actively being transferred. A differential pressure outside of this range, including transmitter failure, would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-177 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.

Authority for Requirement: LCPH ATI 7541 / PTO 7378

Table 176 - 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
177	94	V	10	Ambient	10,000 scfm	LCPH ATI 7541 / PTO 7378

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 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

Refer to Appendix E, Stack Testing Summary, for the applicable requirements.
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 ¹ No

¹ CAM plan

Authority for Requirement: 567 IAC 22.108(3)

Process Group 1 (Utilities)

Emission Point ID Number: 210

Table 177 - Associated Equipment

EP	EU	EU Description	Fuel	Rated Capacity	CE	CE Description
210	210	500 kW Emergency Generator	Diesel Fuel	36.3 gph 680 bhp	--	--

Applicable Requirements

Table 178 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
210	PM/PM ₁₀	0.7 lb/hr		LCPH ATI 7490 / PTO 7211-R1
	Opacity	20%	LCCO Sec.10-60(a)	
	SO ₂	1.5 lb/MMBtu (max 2-hr avg)	LCCO Sec. 10-65(1)(b)	

Operational Limits & Requirements

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

Federal Standards

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

Table 179 - Applicable NESHAP Standards

EU ID	Subpart	Title	Type	Local Reference (LCCO Sec.)	Federal Reference (40 CFR)
210	A	General Conditions	--	10-62(d)(1)	§63.1 – §63.15
	ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	New Emergency Engine @ Major Source	10-62(d)(104)	§63.6580 - §63.6675

Authority for Requirement: LCPH ATI 7490 / PTO 7211-R1

Operating Requirements with Associated Monitoring and Recordkeeping

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. This engine is limited to operating a maximum of 500 hours in any rolling 12-month period.
- B. The following limitations apply:
 - i. This engine is limited to operate as an emergency stationary RICE, as defined in 40 CFR §63.6675, and in accordance with 40 CFR §63.6640(f).
 - ii. In accordance with 40 CFR §63.6640(f)(1), there is no time limit on the use of the engine in emergency situations, provided that the annual hourly limit established in Condition "Operating Requirements with Associated Monitoring and Recordkeeping" A is not exceeded.
 - iii. In accordance with 40 CFR §63.6640(f)(2), the engine may operate a maximum of 100 hours per calendar year for maintenance checks and readiness testing.
 - iv. In accordance with 40 CFR §63.6640(f)(3), the engine may be operated for up to 50 hours per calendar year in non-emergency situations, but the 50 hours are counted toward the 100 hours provided for maintenance and

testing. The 50 hours per year for non-emergency operation cannot be used for peak shaving or non-emergency demand response, or 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.

- C. The engine shall be equipped with a non-resettable hour meter.
- D. The owner or operator shall maintain the following monthly records:
 - i. The number of hours the engine operated for maintenance checks and readiness testing;
 - ii. The number of hours the engine operated for allowed non-emergency operations;
 - iii. The total number of hours the engine operated; and
 - iv. The rolling 12-month total amount of hours that the engine operated.
- E. The owner or operator shall maintain the following annual records:
 - i. The number of hours the engine operated for maintenance checks and readiness testing; and
 - ii. The number of hours the engine operated for allowed non-emergency operations.
 - iii. The total number of hours the engine operated for maintenance checks, readiness testing, and allowed non-emergency operations.
- F. The owner or operator shall meet the applicable General Provisions requirements of 40 CFR 63 (Subpart A) as indicated in 40 CFR §63.6665.
- G. In accordance with 40 CFR §63.6604(b) the diesel fuel burned in this engine shall meet the following specifications from 40 CFR §1090.305(b) for ultra-low sulfur diesel fuel (ULSD):

Table 180 - Fuel Oil Specifications

Parameter	Limit
Sulfur (S) content	15 ppm (0.0015%) by weight
Minimum cetane index or Maximum aromatic content	40 35% (by volume)

The owner or operator shall comply with the requirements listed above by one of the following methods:

- i. Have the fuel supplier certify that the fuel delivered meets the definition of ULSD, as indicated in 40 CFR §1090.305(b); or
 - ii. Obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
 - iii. Perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.
- H. The owner or operator shall meet the General Compliance Requirements of 40 CFR §63.6605.
 - I. The owner or operator shall comply with the applicable Notifications requirements of 40 CFR §63.6645.
 - J. The owner or operator shall comply with the applicable Reporting requirements of 40 CFR §63.6650.
 - K. The owner or operator shall comply with the applicable Recordkeeping requirements of 40 CFR §63.6655 and maintain them pursuant to 40 CFR §63.6660.

Authority for Requirement: LCPH ATI 7490 / PTO 7211-R1

Table 181 - 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
210	30	V	8	981	4,000	LCPH ATI 7490 / PTO 7211-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 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)

Process Group 3 (Process)

Emission Point ID Number: 230

Table 182 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
230	230	Cracked Corn Conveying	Corn	20 tph	230	Baghouse

Applicable Requirements

Table 183 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
230	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 4720 / PTO 4785-R2
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.05 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

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. CE-230 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 CE-230.
- B. The differential pressure across CE-230 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-230 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.

Authority for Requirement: LCPH ATI 4720 / PTO 4785-R2

Table 184 - 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
230	68	V	8	72	600 scfm	LCPH ATI 4720 / PTO 4785-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 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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 240

Table 185 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
240	240	Starch Re-slurry System	Corn	5 tph	240	Baghouse

Applicable Requirements

Table 186 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
240	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 4855 / PTO 4862-R3
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.05 lb/hr		
	VOC	0.17 lb/hr; 0.75 tpy		
	THAP	0.04 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

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. CE-240 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 CE-240.
- B. The differential pressure across CE-240 shall be maintained between 0.01" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-240 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.
- D. EU-240 shall be limited to 1,752 hours of operation based on a 12-month rolling total basis. The owner or operator shall monitor and record the hours of operation on a monthly and 12-month rolling total basis.

Authority for Requirement: LCPH ATI 4855 / PTO 4862-R3

Table 187 - 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
240	83.8	V	9	70	1,250 scfm	LCPH ATI 4855 / PTO 4862-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 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)

Process Group 3 (Process):

Emission Point ID Number: 245, 246

Table 188 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
245	245	East Gluten Bin	Gluten	18 tph	245	Baghouse
246	246	Dry Gluten Receiver	Gluten	7.5 tph	246	Baghouse

Applicable Requirements

Table 189 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
245	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 4855 / PTO 4862-R3 LCPH ATI 5173 / PTO 5146-R3
246	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
245	PM/PM ₁₀	0.1 lb/hr		LCPH ATI 4855 / PTO 4862-R3
	VOC	0.16 lb/hr; 0.68 tpy		
	THAP	0.04 lb/hr		
246	PM/PM ₁₀	0.09 lb/hr		LCPH ATI 5173 / PTO 5146-R3
	VOC	0.14 lb/hr; 0.63 tpy		
	THAP	0.04 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

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. CE-245 may be shut down while discharging product from the bin while at the same time not actively filling the bin as long as no visible emissions are observed during this process to ensure product quality.
- B. CE-245 (CE-246) shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-245 (CE-246).
- C. The differential pressure across CE-245 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred in or out of the bin. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-245 on a weekly basis. **(EP245 only)**
- D. The differential pressure across CE-246 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-246 on a weekly basis. **(EP246 only)**
- 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.

Authority for Requirement: LCPH ATI 4998 / PTO 5034-R3; LCPH ATI 5173 / PTO 5146-R3

Table 190 - 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
245	72	V	6	82	1,163	LCPH ATI 4998 / PTO 5034-R3
246	43	V	9	200	1,101	LCPH ATI 5173 / PTO 5146-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 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)

**Process Group 3 (Process) – EPs 247, 250, 251, 252; Process Group 7 (Specialty Starch) – EP248;
Process Group 4 (Food Starch) – EP254**

Emission Point ID Number: 247, 248, 249, 250, 251, 252, 254

Table 191 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
247	247	Wet Feed Loadout	Bran	45 tph	--	--
248	248	Starch Slurry Tank #6	Starch	500,000 gallons	--	--
249	249	East Gluten Filter Vacuum Pump	Air & Process Water	2,000 ft ³ /hr	--	--
250	250	Middle Gluten Filter Vacuum Pump	Air & Process Water	2,000 ft ³ /hr	--	--
251	251	West Gluten Filter Vacuum Pump	Air & Process Water	2,000 ft ³ /hr	--	--
252	252	Starch Slurry Tank #7	Starch Slurry	850,000 Gallons	--	--
254	254	Starch Slurry Tank #5	Starch Slurry	500,000 Gallons	--	--

Applicable Requirements

Table 192 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
247	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	LCPH ATI 5475 / PTO 5236-R3
248				LCPH ATI 5137 / PTO 5100-R2
249				LCPH ATI 5337 / PTO 5217-R4
250				LCPH ATI 5643 / PTO 5397-R3
251				LCPH ATI 5644 / PTO 5398-R2
252				LCPH ATI 5344 / PTO 5673-R1
254				LCPH ATI 5416 / PTO 5674-R2
247	VOC	0.00 lb/hr; 0.02 tpy	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	LCPH ATI 5475 / PTO 5236-R3
	THAP	0.00 lb/hr		
248	VOC	0.05 lb/hr; 0.23 tpy		LCPH ATI 5137 / PTO 5100-R2
	THAP	0.01 lb/hr		
249	SO ₂	0.04 lb/hr		LCPH ATI 5337 / PTO 5217-R4
	VOC	0.605 lb/hr; 2.65 tpy		
250	THAP	0.02 lb/hr		LCPH ATI 5643 / PTO 5397-R3
	SO ₂	0.01 lb/hr		
251	VOC	0.61 lb/hr; 2.65 tpy		LCPH ATI 5644 / PTO 5398-R2
	THAP	0.02 tpy		
252	VOC	0.01 lb/hr; 0.05 tpy		LCPH ATI 5344 / PTO 5673-R1
	THAP	0.00 lb/hr		
254	VOC	0.05 lb/hr; 0.23 tpy		LCPH ATI 5416 / PTO 5674-R2
	THAP	0.01 lb/hr		

Table 193 - 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
247	67	V	8	140	25	LCPH ATI 5475 / PTO 5236-R3
248	59	H	10	110	260	LCPH ATI 5137 / PTO 5100-R2
249	36	V	9	98	1,050	LCPH ATI 5337 / PTO 5217-R4
250	36	V	10	85	903	LCPH ATI 5643 / PTO 5397-R3
251	36	V	10	85	1,250	LCPH ATI 5644 / PTO 5398-R2
252	57	D	10	120	87	LCPH ATI 5344 / PTO 5673-R1
254	49	D	10	110	377	LCPH ATI 5416 / PTO 5674-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 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)

Process Group 3 (Process)

Emission Point ID Number: 255

Table 194 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
255	255A	Rail Germ Loadout	Germ	135 tph	255	Baghouse
	255B	Germ Conveying				

Applicable Requirements

Table 195 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
255	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 5676 / PTO 5440-R3
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
255	PM/PM ₁₀	0.04 lb/hr		LCPH ATI 5676 / PTO 5440-R3
	VOC	0.12 lb/hr; 0.54 tpy		
	THAP	0.03 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

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. CE-255 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 CE-255.
- B. The differential pressure across CE-255 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-255 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.
- D. EU-255 shall be limited to 5,840 hours of operation based on a rolling 12-month total. The owner or operator shall monitor and record the hours of operation on a monthly and 12-month rolling total basis.

Authority for Requirement: LCPH ATI 5676 / PTO 5440-R3

Table 196 - 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	44	V	12 x 12	70	903	LCPH ATI 5676 / PTO 5440-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 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)

Process Group 1 (Utilities)

Emission Point ID Number: 258

Table 197 - Associated Equipment

EP	EU	EU Description	Fuel	Rated Capacity	CE	CE Description
258	258	500 kW Non-emergency Generator	Diesel Fuel	36.6 gph 680 bhp	258	Diesel Oxidation Catalyst

Applicable Requirements

Table 198 - NSPS & NESHAP Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
258	PM-Federal	0.20 grams/kW-hr	40 CFR Part 1039, Appendix I ¹ LCCO Sec. 10-62(b)(77)	LCPH ATI 6215 / PTO 6085-R3
	Opacity – Acceleration Mode	20% ²	40 CFR §1039.105(b)(1)	
	Opacity – Lugging Mode	15% ²	40 CFR §1039.105(b)(2)	
	Opacity – Peaks in either the Acceleration or Lugging Modes	50% ²	40 CFR §1039.105(b)(3)	
	NMHC + NO _x	6.4 grams/kW-hr	40 CFR Part 1039, Appendix I ¹ LCCO Sec. 10-62(b)(77)	
	CO	3.5 grams/kW-hr	40 CFR Part 1039, Appendix I ¹ LCCO Sec. 10-62(b)(77)	
		Minimum 70% Reduction	40 CFR §63.6600(b)	
Fuel Sulfur Content	15 ppm (0.0015%) by weight	40 CFR §60.4207(b) 40 CFR §1090.305(b)		

¹ Table 2 of Appendix I is for Tier 2 Emission Standards.

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

Table 199 - Other Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
258	PM/PM ₁₀	0.33 lb/hr		LCPH ATI 6215 / PTO 6085-R3
	Opacity	20%	LCCO Sec. 10-60(a)	
	SO ₂	1.5 lb/MMBtu	LCCO Sec. 10-65(a)(1)(b)	
	NO _x	10.58 lb/hr		
	CO	3.86 lb/hr		

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:

Table 200 - Applicable NSPS Standards

EU ID	Subpart	Title	Type	Local Reference (LCCO Sec.)	Federal Reference (40 CFR)
258	A	General Conditions	--	10-62(b)	§60.1 – §60.19
	III	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	New Non-Emergency Engine	10-62(b)(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:

Table 201 - Applicable NESHAP Standards

EU ID	Subpart	Title	Type	Local Reference (LCCO Sec.)	Federal Reference (40 CFR)
258	A	General Conditions	--	10-62(d)(1)	§63.1 – §63.15
	ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	New Non-Emergency Engine @ Major Source	10-62(d)(104)	§63.6580 - §63.6675

Authority for Requirement: LCPH ATI 6215 / PTO 6085-R3

Operating Requirements with Associated Monitoring and Recordkeeping

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 applicable General Provisions requirements of 40 CFR §60 (Subpart A) as indicated in 40 CFR §60.4218.
- B. The owner or operator shall meet the Emission Standards for Owners and Operators requirements of 40 CFR §60.4204 and §60.4206 (NSPS Subpart III).
- C. The owner or operator shall comply with the Fuel Requirements for Owners and Operators of 40 CFR §60.4207 (NSPS Subpart III). Specifically, EU-258 is limited to burning ultra-low sulfur diesel fuel (ULSD) 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 ULSD as indicated in 40 CFR §1090.305(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.
- D. The owner or operator shall meet the applicable General Provisions requirements of 40 CFR 63 (Subpart A) as indicated in 40 CFR §63.6665.
- E. The owner or operator shall meet the Emission and Operating Limits of 40 CFR §63.6600.
- F. The owner or operator shall meet the General Compliance Requirements of §63.6605.
- G. The owner or operator shall comply with the Testing and Initial Compliance Requirements of 40 CFR §63.66610, §63.6615, §66.6620, §63.6625 and §63.6630.
- H. The owner or operator shall complete all applicable monitoring and recordkeeping as required by NSPS Subpart III as indicated below:
 - 1. The owner or operator of EU-258 shall follow the monitoring requirements of 40 CFR §60.4209.
 - 2. The owner or operator of EU-258 shall follow the compliance requirements of 40 CFR §60.4211.

- 3. The owner or operator of EU-258 shall follow the notification, reporting, and recordkeeping requirements of 40 CFR §60.4214.
 - I. The owner or operator shall comply with Continuous Compliance Requirements of 40 CFR §63.6635 and §63.6640.
 - J. The owner or operator shall submit comply with the Notifications of 40 CFR §63.6645.
 - K. The owner or operator shall comply with the Reporting requirements of 40 CFR §63.6650.
 - i. Pursuant to 40 CFR §63.6650(b)"5" the owner or operator may postmark or deliver the semiannual compliance reports no later than March 31 and September 30 rather than January 31 or July 31. The semiannual reports must contain information in §63.6650(c)"1 through 6" and applicable information in (e)"1 through 12".
 - L. The owner or operator shall comply with the Recordkeeping requirements of 40 CFR §63.6655 and maintain them pursuant to 40 CFR §63.6660.
 - M. EU-258 shall operate no more than 4,000 hours per 12-month rolling period.
 - i. The owner or operator shall maintain the following monthly records:
 - 1. The total number of hours the engine operated; and
 - 2. The rolling 12-month total of the number of hours that the engine operated.
 - N. The control equipment on this emission unit shall be maintained according to the manufacturer's specifications and good operating practices.
- Authority for Requirement: LCPH ATI 6215 / PTO 6085-R3

Table 202 - 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
258	18	V	8	942	3,842	LCPH ATI 6215 / PTO 6085-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 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.

Stack Testing

Refer to Appendix E, Stack Testing Summary, for the applicable requirements.

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)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 260, 262

Table 203 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
260	260	East Dilute Phase Pot	Starch	12 tph	260	Cartridge Filters
262	262	West Dilute Phase Pot	Starch	12 tph	262	Cartridge Filters

Applicable Requirements

Table 204 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
260	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6535 / PTO 6434-R4 LCPH ATI 6750 / PTO 6550-R4
262	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
260	PM/PM ₁₀	0.09 lb/hr		LCPH ATI 6535 / PTO 6434-R4
	VOC	20 ppm _v		
	THAP	5 ppm _v		
262	PM/PM ₁₀	0.03 lb/hr		LCPH ATI 6750 / PTO 6550-R4
	VOC	20 ppm _v		
	THAP	5 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

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. CE-260 (CE-262) 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 CE-260 (CE-262).
- B. 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.

Authority for Requirement: LCPH ATI 6535 / PTO 6434-R4; LCPH ATI 6750 / PTO 6550-R4

Table 205 - 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	16	H	8 x 12	68	1,000	LCPH ATI 6535 / PTO 6434-R4
262	16	H	8 X 11	68	1,000	LCPH ATI 6750 / PTO 6550-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 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)

Process Group 3 (Process)

Emission Point ID Number: 263

Table 206 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
263	263	Elevator Tunnel Vacuum Filter	Air w/ Corn Dust	141,000 ft ³	263	Baghouse

Applicable Requirements

Table 207 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
263	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6629 / PTO 6441-R1
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.2 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

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. CE-263 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-263.

Authority for Requirement: LCPH ATI 6629 / PTO 6441-R1

Table 208 - 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
263	14	V	12	200	2,350	LCPH ATI 6629 / PTO 6441-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 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 ¹ No

¹ Refer to Appendix C, Facility O&M Plans, for the applicable requirements.

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Process Group 7 (Specialty Starch)

Emission Point ID Number: 265, 266, 267, 268, 269

Table 209 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
265	265	West Dilute Supersack Receiver	Starch	30,000 lb/hr	265	Baghouse
266	266	West Dense Supersack Receiver	Starch	30,000 lb/hr	266	Baghouse
267	267	West Supersack Vacuum Receiver	Starch	30,000 lb/hr	267	Baghouse
268	268	West Dilute Supersack Surge Bin	Starch	120 ft ³	268	Baghouse
269	269	West Dense Supersack Surge Bin	Starch	120 ft ³	269	Baghouse

Applicable Requirements

Table 210 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
265 266 267	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7534 / PTO 7427 LCPH ATI 7535 / PTO 7428 LCPH ATI 7536 / PTO 7429
268 269	Opacity	No VE	LCCO Sec. 10-58(c)(3)	LCPH ATI 7537 / PTO 7430-R1 LCPH ATI 7538 / PTO 7431-R1
265 266 267 268 269	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 7534 / PTO 7427 LCPH ATI 7535 / PTO 7428 LCPH ATI 7536 / PTO 7429 LCPH ATI 7537 / PTO 7430-R1 LCPH ATI 7538 / PTO 7431-R1
265	PM/PM ₁₀	0.06 lb/hr		LCPH ATI 7534 / PTO 7427
266	PM/PM ₁₀	0.03 lb/hr		LCPH ATI 7535 / PTO 7428
267	PM/PM ₁₀	0.03 lb/hr		LCPH ATI 7536 / PTO 7429

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

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. CE-265, CE-266, CE-267, CE-268, and CE-269 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-265, CE-266, CE-266, CE-267, CE-268, and CE-269.
- B. 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.

Authority for Requirement: LCPH ATI 7534 / PTO 7427; LCPH ATI 7535 / PTO 7428;
LCPH ATI 7536 / PTO 7537

A. The differential pressure across CE-265, CE-266, and CE-267 shall be continuously monitored and maintained between 0.02" and 8.0" w.c. (based on a 15-minute block averaging period) when material is actively being transferred. A differential pressure outside of this range, including transmitter failure, would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-265, CE-266, and CE-267 on a weekly basis.

Authority for Requirement: LCPH ATI 7534 / PTO 7427; LCPH ATI 7535 / PTO 7428;
LCPH ATI 7536 / PTO 7429

Table 211 - 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
265	96'7"	H	10 x 30	Ambient	1,385	LCPH ATI 7534 / PTO 7427
266	96'9"	H	10 x 20	Ambient	640	LCPH ATI 7535 / PTO 7428
267	50	H	10	Ambient	690	LCPH ATI 7536 / PTO 7429
268	Inside-vent Inside Building				20	LCPH ATI 7537 / PTO 7430-R1
269	Inside-vent Inside Building				20	LCPH ATI 7538 / PTO 7431-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 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 (EPs 265, 266, and 267 only)

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)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 300

Table 212 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
300	300	C* Film Starch Receiving Filter	Starch	7 tph	300	Cartridge Filters
	301WF	Weight Feeder		7 tph		

Applicable Requirements

Table 213 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
300	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 5456 / PTO 5447-R5
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.05 lb/hr		
	VOC	0.08 lb/hr; 0.37 tpy		
	THAP	0.04 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

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 (CE-300) 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 (CE-300).
- B. The differential pressure across CE-300 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-300 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.

Authority for Requirement: LCPH ATI 5456 / PTO 5447-R5

Table 214 - 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
300	91	V	8	70	622	LCPH ATI 5456 / PTO 5447-R5

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 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)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 320

Table 215 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
320	320	Starch Dryer	Starch	7 tph	320	Vane Cage Wet Scrubber
	310SH	Starch Hopper		7 tph		

Applicable Requirements

Table 216 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
320	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 5043 / PTO 5583-R3
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.73 lb/hr		
	VOC	2.93 lb/hr; 12.85 tpy		
	THAP	1.17 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

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 (CE-320) 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 (CE-320).
- B. The recycled liquor flow rate in CE-320 shall be maintained at a minimum of 28 gallons per minute (gpm) based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 28 gpm.
- 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.

Authority for Requirement: LCPH ATI 5043 / PTO 5583-R3

Table 217 - 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
320	93	V	30	171	10,232	LCPH ATI 5043 / PTO 5583-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 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)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 330, 340, 350, 360, 370

Table 218 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
330	330	Modified Starch Receiving Filter	Starch	7 tph	330	Baghouse
340	340	Sifter		7 tph	340	Cartridge Filters
350	350	Product Hopper		7 tph	350	Cartridge Filters
360	360	Product Receiving Filter		7 tph	360	Cartridge Filters
370	370	C* Film Loadout Surge Hopper		5 tph	370	Bin Vent Filters

Applicable Requirements

Table 219 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement		
330	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 5044 / PTO 5448-R4		
340	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 5045 / PTO 5449-R4		
350				LCPH ATI 5457 / PTO 5450-R4		
360				LCPH ATI 5047 / PTO 5451-R4		
370				LCPH ATI 5458 / PTO 5452-R4		
330	PM/PM ₁₀	0.05 lb/hr	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 5044 / PTO 5448-R4		
	VOC	0.08 lb/hr; 0.37 tpy				
	THAP	0.04 lb/hr				
340	PM/PM ₁₀	0.01 lb/hr		567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 5045 / PTO 5449-R4	
	VOC	0.02 lb/hr; 0.08 tpy				
	THAP	0.01 lb/hr				
350	PM/PM ₁₀	0.03 lb/hr			567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 5457 / PTO 5450-R4
	VOC	0.04 lb/hr; 0.18 tpy				
	THAP	0.02 lb/hr				
360	PM/PM ₁₀	0.02 lb/hr				567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)
	VOC	0.03 lb/hr; 0.13 tpy				
	THAP	0.01 lb/hr				
370	PM/PM ₁₀	0.14 lb/hr	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	LCPH ATI 5458 / PTO 5452-R4		
	VOC	0.22 lb/hr; 0.95 tpy				
	THAP	0.11 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

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. CE-330 (CE-340, CE-350, CE-360, CE-370) shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-330 (CE-340, CE-350, CE-360, CE-370).
- B. The differential pressure across CE-330 (CE-340, CE-350, CE-360, CE-370) shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a

deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-330 (CE-340, CE-350, CE-360, CE-370) 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.

Authority for Requirement: LCPH ATI 5044 / PTO 5448-R4; LCPH ATI 5045 / PTO 5449-R4
 LCPH ATI 5457 / PTO 5450-R4; LCPH ATI 5047 / PTO 5451-R4
 LCPH ATI 5458 / PTO 5452-R4

Table 220 - 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
330	91	V	9	95	640	LCPH ATI 5044 / PTO 5448-R4
340	91	V	8	95	134	LCPH ATI 5045 / PTO 5449-R4
350	42	V	8	113	320	LCPH ATI 5457 / PTO 5450-R4
360	42	V	6	113	233	LCPH ATI 5047 / PTO 5451-R4
370	68	V	14	72	1,600	LCPH ATI 5458 / PTO 5452-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 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)

Process Group 5 (Industrial Starch)

Emission Point ID Number: 380

Table 221 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
380	380	C* Cooling Tower	Water	400 gallons/minute	380	Drift Eliminator

Applicable Requirements

Table 222 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
380	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 5459 / PTO 5453-R1
	PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCCO Sec. 10-62(a)(1)	
	PM/PM ₁₀	0.02 lb/hr		

Operational Limits & Requirements

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

Control Device

A drift eliminator shall be installed to control particulate matter emissions. The control equipment may be shut down while discharging product from the bin while at the same time not actively filling the bin to ensure product quality and as long as no visible emissions are observed during this process. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5459 / PTO 5453-R1

Operating Limits

- A. Chromium based water treatment chemicals shall not be used in this emission unit.
- B. The Total Dissolved Solids (TDS) concentration in the cooling water shall not exceed 2,000 parts per million by weight (2,000 mg/L) for any single sampling event.

Authority for Requirement: LCPH ATI 5459 / PTO 5453-R1

Operating Condition Monitoring and Recordkeeping

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 maintain a material safety data sheet of all water treatment chemicals used.
- B. The owner or operator shall maintain records of the manufacturer's design guarantee.

Authority for Requirement: LCPH ATI 5459 / PTO 5453-R1

Table 223 - 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
380	31.5	V	84	93	104,600	LCPH ATI 5459 / PTO 5453-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 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)

Process Group 4 (Food Starch)

Emission Point ID Number: 390

Table 224 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
390	390	Food Starch Sifter	Starch	19 tph	390	Cartridge Filters

Applicable Requirements

Table 225 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
390	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 6395 / PTO 6257-R3
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.11 lb/hr		
	VOC	5 ppm _v		
	THAP	1.25 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

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. CE-390 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-390.
- B. The differential pressure across CE-390 shall be maintained between 0.02" and 12.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-390 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.

Authority for Requirement: LCPH ATI 6395 / PTO 6257-R3

Table 226 - 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
390	49	V	6	110	1,250	LCPH ATI 6395 / PTO 6257-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 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)

Process Group 3 (Process)

Emission Point ID Number: 410

Table 227 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
410	20A	Germ Dryer Burner	Natural Gas	0.04 mmcf/hr	20C	Cyclone
	20C	Germ Dryer Sections 1-4	Germ	8.0 tph dry germ	20	Wet Scrubber
	20BNEW	Gluten Steam Tube Dryer	Gluten	5.0 tph dry gluten	410	RTO
	20D	Waste Gas Steepwater Evaporator	Steepwater	4,500 bu/hr	20	Wet Scrubber
	20F ¹	Bran Dewatering System	Bran	10.1 tph dry fiber	410	RTO
	113	Germ Dryer Section 5	Germ	8.0 tph dry germ	113	Cyclone
	113B	Germ Dryer Burner	Natural Gas	0.04 mmcf/hr	410	RTO
	410	RTO Burner	Natural Gas	18 MMBtu/hr	410	RTO

¹ EU-20F is also permitted to exhaust through EP-109 and EP-20.

Applicable Requirements

Table 228 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
410	Opacity	20%	LCCO Sec.10-60(a)	LCPH ATI 7403 / PTO 7251
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM	2.05 lb/hr		
	PM ₁₀	1.25 lb/hr		
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	
		5.02 lb/hr		
	NO _x	9.21 lb/hr		
	VOC	95% control or ≤ 10 ppm ¹		
CO	90% control or ≤ 100 ppm ¹			

¹ This limit does not apply to periods of off-line RTO regeneration not to exceed 50 unit operating hours per calendar year and individual off-line RTO regeneration periods not to exceed 12 unit operating hours. For RTO's servicing more than one unit, a unit operating hour is any hour in which one or more of the unit is on line. Off-line RTO regeneration while all associated units are shut down is not included in these operating limitations. Also, off-line RTO regenerations during periods that can be completed during unrelated shutdown, or malfunction periods (i.e., periods not related to the need to perform an off-line RTO regeneration) are not included in these limitations (i.e., Cargill may perform "preventative" off-line RTO regenerations during periods when the RTO is off-line due to maintenance or malfunction of upstream PM control equipment which requires bypass of the RTO). This requirement is established pursuant to Appendices H and K of Consent Decree 05-CV-02037.

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

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 RTO (CE-410) shall only combust natural gas.

- B. The RTO (CE-410) shall maintain a 3-hour average combustion chamber temperature of 1585°F. The temperature shall be monitored continuously and based on the following temperature compliance schedule. To determine compliance with the compliance operating range pursuant to Appendices H and K of the Consent Decree 05-CV-02037, the 3-hour average is broken into the following 8 averaging periods: 12 am to 3 am, 3 am to 6 am, 6 am to 9 am, 9 am to 12 pm, 12 pm to 3 pm, 3 pm to 6 pm, 6 pm to 9 pm, and 9 pm to 12 am.
- C. The control equipment (CE-20, CE-20C, CE-113, and CE-410) shall be operated at all times emissions units 20A, 20C, are online, except that the RTO (CE-410) may be bypassed for no more than 50 hours a calendar year for off-line regeneration periods with no individual regeneration period exceeding 12 hours. See footnote 7 of Condition 1 for additional details.
- D. EUs 20BNEW, 20D, and 20F are limited to operating 3,000 hours while CE-410 is offline. CE-20 shall be operational while these EUs are operating during periods CE-410 is offline. The owner or operator shall monitor and record the hours of operation EUs 20BNEW, 20D, and 20F operate on a monthly and 12-month rolling total basis during periods CE-410 is offline.
- E. 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 CE-20 CE-20C, CE-113 and CE-410.
- F. The recycled liquor flow rate in CE-20 shall be maintained at a minimum of 348 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 348 gallons per minute.
- G. The pH of CE-20 liquor shall be maintained at a minimum of 7.0 based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the pH of CE-20 liquor and record all rolling 3-hour averaging periods (during actual operations) when the average pH falls below 7.0.
- H. 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.
- I. The owner or operator shall continuously monitor the 3-hour average combustion chamber temperature of the RTO (CE-410) based on the eight (8) averaging periods listed in Condition 5B, and record all 3-hour periods (during actual operations) when the average temperature of the thermal oxidizer falls below 1585°F.
- J. The owner or operator shall record the dates and times the RTO (CE-410) is bypassed pursuant to Condition 5C and update the total bypass hours per calendar year.

Authority for Requirement: LCPH ATI 7403 / PTO 7251

Table 229 - 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
410	118	V	68	152	48,000	LCPH ATI 7403 / PTO 7251

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 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)

Process Group 4 (Food Starch):

Emission Point ID Number: 450

Table 230 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
450	180	Turbilizer	Starch Slurry	N/A	450	Packed Bed Scrubber
	181	Merco O/F Tank		3,000 gallons		
	182	Mod Tank #101		30,000 gallons		
	183	Deactivation Tank		1,000 gallons		
	184	Wash Merco Feed Tank		3,000 gallons		
	185	Merco 36		N/A		
	450	Starch Slurry Tank #8		600,000 Gallons		

Applicable Requirements

Table 231 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
450	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	LCPH ATI 7539 / PTO 7377
		0.044 lb/hr		
	VOC	0.19 lb/hr		
	THAP	0.05 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

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. CE-450 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-450.
- B. CE-450 shall be operated whenever material is being added into the tank (EU-450). Material is allowed to be present in the tank (EU-450) or transferred out without the scrubber (CE-450) in operation.
- C. The recycled liquor flow rate in CE-450 shall be maintained at a minimum of 12 gallons per minute based on a rolling 3-hour average basis. The owner or operator shall continuously monitor the recycled liquor flow rate and record all rolling 3-hour averaging periods (during actual operations) when the average recycled liquor flow rate falls below 12 gallons per minute.

Authority for Requirement: LCPH ATI 7539 / PTO 7377

Table 232 - 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
450	115	V	10	120	1,538	LCPH ATI 7539 / PTO 7377

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 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)

Process Group 4 (Industrial Starch):

Emission Point ID Number: 452

Table 233 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
452	452	Starch Centrifuge	Starch	15 tph	--	--

Applicable Requirements

Table 234 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
452	Opacity	20%	LCCO Sec. 10-60(a)	LCPH ATI 7196 / PTO 6914
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(2)	
		10 ppm _v		
	VOC	20 ppm _v		
	SHAP	20 ppm _v		
	THAP	20 ppm _v		

Operational Limits & Requirements

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

Table 235 - 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
452	77	V	14	107	906	LCPH ATI 7196 / PTO 6914

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 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)

Process Group 5 (Industrial Starch):

Emission Point ID Number: 453

Table 236 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
453	1A	Dryer 3 Paddle Mixer	Starch	15 tph	453	Baghouse
	1B	Dryer 3 Rotosieve				
	1C	Dryer 3 Surge Hopper				

Applicable Requirements

Table 237 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
453	Opacity	20%	LCCO Sec. 10-60(a)	LCPH ATI 7395 / PTO 7121
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.05 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

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. CE-453 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-453.
- B. The differential pressure across CE-453 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-453 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.

Authority for Requirement: LCPH ATI 7395 / PTO 7121

Table 238 - 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
453	10	V	10	100	1,130	LCPH ATI 7395 / PTO 7121

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 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)

Process Group 5 (Industrial Starch):

Emission Point ID Number: 454

Table 239 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
454	90A	Dryer 4 Paddle Mixer	Starch	16 tph	454	Baghouse
	90B	Dryer 4 Rotosieve				
	90C	Dryer 4 Surge Hopper				

Applicable Requirements

Table 240 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement	Authority for Requirement
454	Opacity	20%	LCCO Sec. 10-60(a)	LCPH ATI 7396 / PTO 7193
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCCO Sec. 10-62(a)(7)	
	PM/PM ₁₀	0.07 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

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. CE-454 shall be maintained according to manufacturer's specifications and good operating practices. The owner or operator shall maintain records of all maintenance completed on CE-454.
- B. The differential pressure across CE-454 shall be maintained between 0.02" and 8.0" w.c. when material is actively being transferred. A differential pressure outside of this range would not be considered a deviation if visible emissions are not present when the indicator is out of range and corrective actions are initiated as soon as possible but no longer than eight (8) hours from observation of the abnormal condition. This operating limit does not include periods of startup, shutdown, or cleaning of the control equipment. The owner or operator shall monitor and record the differential pressure across CE-454 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.

Authority for Requirement: LCPH ATI 7396 / PTO 7193

Table 241 - 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
454	10	V	10	100	1,720	LCPH ATI 7396 / PTO 7193

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 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)

Process Group 1 (Utilities)

Emission Point ID Number: 516

Table 242 - Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE	CE Description
516	516	Refinery Loadout Boiler	Natural Gas	8.4 MMBtu/hr	--	--

Applicable Requirements

Table 243 - Emission Limits

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

EP	Pollutant	Emission Limit(s)	Authority for Requirement
516	Opacity	20%	LCCO Sec. 10-60(a)
	PM	0.6 lb/MMBtu	567 IAC 23.3(2)(b)"2" LCCO Sec. 10-61(b)(2)
	SO ₂	500 ppm _v	567 IAC 23.3(3)"e" LCCO Sec. 10-65(a)(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

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. EU-516 is limited to an annual capacity factor to less than or equal to 10 percent.
- B. The owner or operator must maintain hours of operation records to approximate the gas usage based on the hourly maximum fuel use of the boiler (EU-516).

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Federal Standards

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

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

Table 244 - Applicable NESHAP Standards

EU ID	Subpart	Title	Type	Local Reference (LCCO Sec.)	Federal Reference (40 CFR)
516	A	General Conditions	NA	10-62(d)(1)	§63.1 – §63.15
	DDDDD	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters	Natural Gas / Limited-Use Boiler	--	§63.7480 – §63.7575

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

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 Ordinances (LCCO) Chapter 10 – Environment, Article III, Sec. 10-57.

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, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, 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 Permitting & Standards Branch, 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 emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
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 Sec. 10-75

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 Sec. 10-71 and 10-72

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 Sec. 10-67(b)

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;
 - f. The operating conditions as existing at the time of sampling or measurement; and
 - 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 Sec. 10-69(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 Sec. 10-67

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
 - viii. 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.
- a. 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.
 - b. 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 Sec. 10-58

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying

applications, demolition and renovation operations (567 IAC 23.1(3)"a"); training fires and controlled burning of a demolished building (567 IAC 23.2).

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in LCCO Sec. 10-63.

G22. Acid Rain (Title IV) Emissions Allowances

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

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

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
 - b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
 - c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
 - d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as

used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

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

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. 567 IAC 22.108(9)"c"
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
 - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
 - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. 567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"
3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. 567 IAC 22.114(1)
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. 567 IAC 22.114(2)
5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. 567 IAC 22.114(3)

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. Such applicable requirements are included and are specifically identified in the permit; or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. 567 IAC 22.108 (18)

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as

rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

Linn County Public Health
Air Quality Division
1020 6th St. SE
Cedar Rapids, IA 52401
(319) 892-6000

567 IAC 25.1(7)"a", 567 IAC 25.1(9) and LCCO Sec. 10-70

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:

Iowa Compliance Officer
Air Branch
Enforcement and Compliance Assurance Division
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
600 Park Ave, Suite 200
Des Moines, IA 50321
(515) 725-8200

Reports or notifications to the Linn County local program shall be directed to the supervisor at the Linn County local program. The current address and phone number is:

Linn County Public Health
Air Quality Division
1020 6th Street SE
Cedar Rapids, IA 52401
(319) 892-6000

Appendix A: Applicable Federal Standards

[40 CFR part 60 Subpart Db](#) - *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units*

[40 CFR part 60 Subpart IIII](#) - *Standards of Performance for Stationary Compression Ignition Engines*

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:

[Air Technology Standards in Region 7 | US EPA](#)

[40 CFR 63 Subpart ZZZZ](#) – *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*

[40 CFR 63 Subpart EEEE](#) – *National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)*

[40 CFR 63 Subpart DDDDD](#) – *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters*

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 NSPS can be found at the link below:

[Air Technology Standards in Region 7 | US EPA](#)

Appendix B: CAM Plan(s) Summary

I. Background

- A. Emissions Unit
Description: See CAM Table 1 for full listing
Identification: See CAM Table 1 for full listing
Facility: Cargill, Inc. – Cedar Rapids
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. 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.
- C. 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.

D.	<u>Performance Criteria</u>	
	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.
	Recordkeeping and Reporting (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 in the plant information system and will be maintained for 5 years. Operator logs and maintenance records will be kept for 5 years.
	Averaging period:	Scrubber water recirculation rates and pH are based on a rolling 3-hour averaging period as identified in CAM Table 1.
	Corrective Action:	In all cases, corrective action shall be taken as soon as possible, but later than 8 hours from the observation of the excursion.

Table 245 - CAM Table 1. Summary of CAM Requirements by Emission Point

EP	EU	EU Description	CE	Pollutant	Emission Limit(s)	Monitoring Indicator	Indicator Range	Monitoring Frequency	Regulation No.
13	13	Truck Loadout	Baghouse	PM	1.25 lb/hr & 0.1 gr/dscf	ΔP	0.02 – 8.0 in. w.c.	Daily	LCPH ATI 5674 / PTO 5681-R3
						VE	No Visible Emissions		
33	33	Refinery Process Tanks	Packed Bed Scrubber	HAP	0.54 lb/hr	Water recirculation rate	≥ 62 gpm	Daily	LCPH ATI 6378 / PTO 6116-R5
						pH	≥ 7.0		
41	41	Steep Tanks	Packed Bed Scrubber	VOC	9.79 lb/hr	Water recirculation rate	≥ 190 gpm	Daily	LCPH ATI 6034 / PTO 5761-R2
						pH	≥ 6.9		
90	90	#4 Starch Flash Dryer	Wet Scrubber	VOC	10 ppm (non-oxidized starch)	Water recirculation rate	≥ 120 gpm	Daily	LCPH ATI 6923 / PTO 6803-R1 DNR PSD 16-A-259-P2
				PM PM ₁₀	9.51 lb/hr 0.015 gr/dscf & 41.7 tpy; 3.85 lb/hr	ΔP	0.1 - 12 in. w.c.		
116	116	Starch Spray Dryer	Baghouse	PM	0.1 gr/dscf & 2.18 lb/hr	ΔP	0.02 – 8.0 in. w.c.	Daily	LCPH ATI 2992 / PTO 3669-R4
						VE	No Visible Emissions		
177	177	Grain Receiving Pit	Baghouse	PM	0.1 gr/dscf & 0.64 lb/hr	ΔP	0.02 – 8.0 in. w.c.	Daily	LCPH ATI / PTO
						VE	No Visible Emissions		

Appendix C: Facility O&M Plan(s) Summary

Table 246 - Facility O&M Plans Summary

The following emission units are subject to a facility O&M plan:

EP	EU ID	Description
5	EU-5	Soda Ash Storage Bin
40	EU-40A-40G	Mill Aspiration
263	EU-263	Elevator Tunnel Vacuum

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provide documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Appendix D: Opacity Monitoring Summary

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit associated with the emission point listed in Opacity Monitoring Table is operating at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity 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. 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.

Table 247 - Opacity Monitoring Table

Emission Point																	
1	5	6	8	9	11	12	13	14	15	16	17	24	27	32	33	37	41
43	51	52	58	65	68	70	71	79	85	90	91	92	93	94	95	100	102
103	104	105	115	116	118	119	120	121	124	130	149	153	155	162	164	165	166
167	169	170	171	173	174	176	177	230	240	245	246	255	260	262	263	265	266
267	300	320	330	340	350	360	370	390	410	453	454	-	-	-	-	-	-

Authority for Requirement: 567 IAC 22.108(14)

Appendix E: Stack Testing Summary

Table 248 - Stack Testing Summary

EP	EU Description	Pollutant	Compliance Methodology	Completion Deadline	Test Method
12	Gluten Sizing System	PM	Stack Test	TBD (w/in 3 years)	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
33	Refinery Process Tanks	HCl	Stack Test	TBD (w/in 3 years)	40 CFR 60, Appendix A, Method 26
70	Starch Mod Tanks	VOC	Stack Test	TBD (w/in 3 years)	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
161	POCl ₃ Mod Scrubber	VOC HAP	Stack Test	TBD (w/in 3 years)	40 CFR 63, Appendix A, Method 320 or 40 CFR 60, Appendix A, Method 18
177	Grain Receiving Pit	PM	Stack Test	TBD (w/in 3 years)	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
258	Non-emergency Engine	CO ¹	Stack Test	See Footnote 2 ² See Footnote 3 ³	40 CFR 60, Appendix A, Method 10 or ASTM D6522-00

¹ Cargill, Inc. may also elect to test pollutant formaldehyde in lieu of CO pursuant to Table 2a as referenced in §§63.6600 and 63.6640.

² Pursuant to §63.6610, the initial performance test must be conducted within 180 days after the compliance date that is specified in §63.6595 and according to the provisions in §63.7(a)(2) (Initial compliance test was completed on November 29, 2011). Compliance with the emission limitation stated in Table 2a as referenced in §63.6600 must be demonstrated while testing the engine at 100% load ± 10%.

³ Pursuant to Table 3 as referenced in §63.6615, subsequent performance tests must be conducted semiannually. However, after Cargill, Inc. has demonstrated compliance for two consecutive tests, Cargill, Inc. may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO emission limitation, or Cargill, Inc. deviates from any of its operating limitations, Cargill, Inc. must resume semiannual performance tests.

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)

Authority for Requirement – 567 IAC 23.1(4)"cz"; LCCO Sec. 10-62(d)(104); 40 CFR 63 Subpart ZZZZ (EP258)