Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: ADM Corn Processing
Facility Location: 1350 Waconia Avenue SW
Cedar Rapids, IA 52404
Air Quality Operating Permit Number: 08-TV-004R1-M001
Expiration Date: January 5, 2022
Permit Renewal Application Deadline: July 5, 2021

EIQ Number: 92-9062
Facility File Number: 57-01-080

Responsible Official
Name: Eric Fasnacht
Title: Plant Manager
Mailing Address: 5353 Willow Creek Dr., Cedar Rapids, Iowa 52404
Phone #: 319-398-0600

Permit Contact Person for the Facility
Name: Rich Stephens
Title: Environmental Coordinator
Mailing Address: 5353 Willow Creek Dr., Cedar Rapids, Iowa 52404
Phone #: 319-398-0735

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

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Air Operating Permits Section Date

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Abbreviations

acfm	actual cubic feet per minute
AQD	Air Quality Division (Linn County)
APCO	Air Pollution Control Officer
CDA	completely denatured alcohol
CFBC	Circulating Fluidized Bed Combustion
CFR	Code of Federal Regulation
CE	control equipment
CEM	continuous emission monitor
D.C.	dust collector
^{o}F	degrees Fahrenheit
EIQ	emissions inventory questionnaire
EP	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
gr./100 cf	grains per one hundred cubic feet
IAC	Iowa Administrative Code
IDNR	Iowa Department of Natural Resources
LCPH	Linn County Public Health
LCO	Linn County Ordinance
MR	mechanical recompression
MVAC	motor vehicle air conditioner
NAICS	North American Industry Classification System
NSPS	New Source Performance Standard
ppmv	parts per million by volume
PSD	Prevention of Significant Deterioration
lb./hr	pounds per hour
lb./MMBtu	pounds per million British thermal units
RTO	Regenerative Thermal Oxidizer
SCC	Source Classification Codes
scfm	standard cubic feet per minute
SEP	Supplemental Environmental Project
SIC	Standard Industrial Classification
SNCR	selective non-catalytic reduction
TPY	tons per year
USEPA	United States Environmental Protection Agency

Pollutants

PM	particulate matter
PM_{10}	particulate matter ten microns or less in diameter
SO_2	sulfur dioxide
NO_x	nitrogen oxides
VOC	volatile organic compound
CO	carbon monoxide
HAP	hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: ADM Corn Processing
Permit Number: 08-TV-004R1-M001

Facility Description: Corn Wet Milling Plant (SIC 2046)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
ELEVATOR			
SEP-008	EU-8	Corn Truck Receiving	6051 / 6148R1
SEP-008	EU-8B	400 Leg	6051 / 6148R1
SEP-008	EU-8C	Transfer Conveyor	6051 / 6148R1
SEP-008	EU-10A	60% Gluten Meal Cooler #1	6051 / 6148R1
SEP-008	EU-10B	60% Gluten Meal Cooler #2	6051 / 6148R1
SEP-008	EU-22	Corn Cleaners System B	6051 / 6148R1
SEP-008	EU-22B	Cleaner Leg	6051 / 6148R1
SEP-008	EU-23	Cracked Corn Receiving	6051 / 6148R1
SEP-008	EU-40	Germ to Storage Conveying	6051 / 6148R1
SEP-008	EU-48	Gluten Meal Milling	6051 / 6148R1
SEP-008	EU-49	Gluten Meal Storage	6051 / 6148R1
SEP-008	EU-65	Cleaner House System A	6051 / 6148R1
SEP-008	EU-66	Cleaner House System B	6051 / 6148R1
SEP-008	EU-86A	Gluten Truck Loading	6051 / 6148R1
SEP-008	EU-86B	Gluten Rail Loading	6051 / 6148R1
SEP-008	EU-180B	Steel Tank Leg	6051 / 6148R1
SEP-008	EU-180C	Silo to Steeps Drag Conveyor	6051 / 6148R1
SEP-008	EU-180D	Silo to Steeps Drag Conveyor	6051 / 6148R1
SEP-008	EU-180E	Steep House Corn Hopper	6051 / 6148R1
SEP-008	EU-181	Rail Dump	6051 / 6148R1
SEP-008	EU-181B	200 Leg	6051 / 6148R1
SEP-061	EU-61	#1 Steel Corn Storage Tank	6210 / 6051
SEP-062	EU-62	#2 Steel Corn Storage Tank	6211 / 6052
SEP-063	EU-63	#3 Steel Corn Storage Tank	6212 / 6053
SEP-064	EU-64	#4 Steel Corn Storage Tank	6213 / 6054
SEP-180 SEP-181	EU-180	Bulk Weigh Scale	6040 / 6109 6041 / 6110
	EU-180B	Steel Tank Leg	
	EU-180C	Silo to Steeps Drag Conveyor	
	EU-180D	Silo to Steeps Drag Conveyor	
	EU-180E	Steep House Corn Hopper	

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
SEP-180 SEP-181	EU-181	Rail Dump	6040 / 6109 6041 / 6110
	EU-181B	200 Leg	
	EU-8	Corn Truck Receiving	
	EU-8B	400 Leg	
	EU-8C	Transfer Conveyor	
	EU-10A	60% Gluten Meal Cooler #1	
	EU-10B	60% Gluten Meal Cooler #2	
	EU-22	Corn Cleaners System B	
	EU-22B	Cleaner Leg	
	EU-23	Cracked Corn Receiving	
	EU-40	Germ to Storage Conveying	
	EU-48	Gluten Meal Milling	
	EU-49	Gluten Meal Storage	
	EU-65	Cleaner House System A	
	EU-66	Cleaner House System B	
	EU-86A	Gluten Truck Loading	
	EU-86B	Gluten Rail Loading	
MILL			
SEP-083	EU-083A	Wet Corn Hopper	4828 / 5712
SEP-083	EU-083B	First Grind Tank	4828 / 5712
SEP-083	EU-083C	MR Steepwater Evaporators	4828 / 5712
SEP-083	EU-375	Steep Tank 1E	4828 / 5712
SEP-083	EU-376	Steep Tank 2E	4828 / 5712
SEP-083	EU-377	Steep Tank 3E	4828 / 5712
SEP-083	EU-378	Steep Tank 10E	4828 / 5712
SEP-083	EU-379	Steep Tank 11E	4828 / 5712
SEP-083	EU-380	Steep Tank 12E	4828 / 5712
SEP-083	EU-381	Steep Tank 1F	4828 / 5712
SEP-083	EU-382	Steep Tank 2F	4828 / 5712
SEP-083	EU-383	Steep Tank 3F	4828 / 5712
SEP-083	EU-384	Steep Tank 10F	4828 / 5712
SEP-083	EU-385	Steep Tank 11F	4828 / 5712
SEP-083	EU-386	Steep Tank 12F	4828 / 5712
SEP-201	EU-201A	Heavy Gluten Storage Tank	4829 / 6111
SEP-201	EU-201B	Mill Water Storage Tank	4829 / 6111
SEP-201	EU-201C	Light Steep Water Storage	4829 / 6111
SEP-204	EU-204	Biomass Storage Tank	4830 / 6150
SEP-205	EU-205	Heavy Steepwater Tank	4831 / 6151
SEP-206	EU-206	Intermediate Steepwater Storage Tank	4832 / 6152
SEP-210	EU-046	Sulfur Burning System	5829 / 6337
SEP-210	EU-210	Millhouse SO_2 Scrubber	5829 / 6337
SEP-307	EU-307	Steep Tank 1A	5575 / 5812

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
SEP-308	EU-308	Steep Tank 2A	5576 / 5813
SEP-309	EU-309	Steep Tank 3A	5577 / 5814
SEP-310	EU-310	Steep Tank 4A	5578 / 5815
SEP-311	EU-311	Steep Tank 5A	5579 / 5816
SEP-312	EU-312	Steep Tank 6A	5580 / 5817
SEP-313	EU-313	Steep Tank 7A	5581 / 5818
SEP-314	EU-314	Steep Tank 8A	5582 / 5819
SEP-315	EU-315	Steep Tank 9A	5583 / 5820
SEP-316	EU-316	Steep Tank 10A	5584 / 5821
SEP-317	EU-317	Steep Tank 11A	5585 / 5822
SEP-318	EU-318	Steep Tank 12A	5586 / 5823
SEP-319	EU-319	Steep Tank 13A	5587 / 5824
SEP-320	EU-320	Steep Tank 14A	5588 / 5825
SEP-321	EU-321	Steep Tank 15A	5589 / 5826
SEP-322	EU-322	Steep Tank 16A	5590 / 5827
SEP-323	EU-323	Steep Tank 17A	5591 / 5828
SEP-324	EU-324	Steep Tank 18A	5592 / 5829
SEP-325	EU-325	Steep Tank 1B	5593 / 5830
SEP-326	EU-327	Steep Tank 2B	5594 / 5831
SEP-327	EU-327	Steep Tank 3B	5595 / 5832
SEP-328	EU-328	Steep Tank 4B	5596 / 5833
SEP-329	EU-329	Steep Tank 5B	5597 / 5834
SEP-330	EU-330	Steep Tank 6B	5598 / 5835
SEP-331	EU-331	Steep Tank 7B	5599 / 5836
SEP-332	EU-332	Steep Tank 8B	5600 / 5837
SEP-333	EU-333	Steep Tank 9B	5601 / 5838
SEP-334	EU-334	Steep Tank 10B	5602 / 5839
SEP-335	EU-335	Steep Tank 11B	5603 / 5840
SEP-336	EU-336	Steep Tank 12B	5604 / 5841
SEP-337	EU-337	Steep Tank 13B	5605 / 5842
SEP-338	EU-338	Steep Tank 14B	5606 / 5843
SEP-339	EU-339	Steep Tank 15B	5607 / 5844
SEP-340	EU-340	Steep Tank 16B	5608 / 5845
SEP-341	EU-341	Steep Tank 17B	5609 / 5846
SEP-342	EU-342	Steep Tank 18B	5610 / 5847
SEP-343	EU-343	Steep Tank 1C	5611 / 5848
SEP-344	EU-344	Steep Tank 2C	5612 / 5849
SEP-345	EU-345	Steep Tank 3C	5613 / 5850
SEP-346	EU-346	Steep Tank 4C	5614 / 5851
SEP-347	EU-347	Steep Tank 5C	5615 / 5852
SEP-348	EU-348	Steep Tank 6C	5616 / 5853
SEP-349	EU-349	Steep Tank 7C	5617 / 5854
SEP-350	EU-350	Steep Tank 8C	5618 / 5855

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
SEP-351	EU-351	Steep Tank 9C	5619 / 5856
SEP-352	EU-352	Steep Tank 10C	5620 / 5857
SEP-353	EU-353	Steep Tank 11C	5621 / 5858
SEP-354	EU-354	Steep Tank 12C	5622 / 5859
SEP-355	EU-355	Steep Tank 13C	5623 / 5860
SEP-356	EU-356	Steep Tank 14C	5624 / 5861
SEP-357	EU-357	Steep Tank 15C	5625 / 5862
SEP-358	EU-358	Steep Tank 16C	5626 / 5863
SEP-359	EU-359	Steep Tank 17C	5627 / 5864
SEP-360	EU-360	Steep Tank 18C	5628 / 5865
SEP-361	EU-361	Steep Tank 1D	5629 / 5866
SEP-362	EU-362	Steep Tank 2D	5630 / 5867
SEP-363	EU-363	Steep Tank 3D	5631 / 5868
SEP-364	EU-364	Steep Tank 4D	5632 / 5869
SEP-365	EU-365	Steep Tank 5D	5633 / 5870
SEP-366	EU-366	Steep Tank 6D	5634 / 5871
SEP-367	EU-367	Steep Tank 7D	5635 / 5872
SEP-368	EU-368	Steep Tank 8D	5636 / 5873
SEP-369	EU-369	Steep Tank 9D	5637 / 5874
SEP-370	EU-370	Steep Tank 10D	5638 / 5875
SEP-371	EU-371	Steep Tank 11D	5639 / 5876
SEP-372	EU-372	Steep Tank 12D	5640 / 5877
SEP-373	EU-373	Steep Tank 13D	5641 / 5878
SEP-374	EU-374	Steep Tank 14D	5642 / 5879
60% GLUTEN MEAL			
SEP-190 SEP-191 SEP-192	EU-011A	Gluten Meal Dryer #1	4900 / 5783 4901 / 5784 4902 / 5785
	EU-011B	Gluten Meal Dryer #1 – Natural Gas	
	EU-018A	Gluten Meal Dryer #2	
	EU-018B	Gluten Meal Dryer #2 – Natural Gas	
	EU-019A	Fiber Feed Dryer #1	
	EU-019B	Fiber Feed Dryer #1 – Natural Gas	
	EU-030A	Fiber Feed Dryer #2	
	EU-030B	Fiber Feed Dryer #2 – Natural Gas	
	EU-043A	Fiber Feed Dryer #3	
	EU-043B	Fiber Feed Dryer #3 – Natural Gas	
	EU-005CA	Fiber Feed Dryer #4	
	EU-005CB	Fiber Feed Dryer #4 – Natural Gas	
	EU-005DA	Fiber Feed Dryer #5	
	EU-005DB	Fiber Feed Dryer #5 – Natural Gas	

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
SEP-190	EU-190	RTO #1	4900 / 5783
SEP-191	EU-191A	RTO #2	4901 / 5784
SEP-191	EU-191B	RTO #3	4901 / 5784
SEP-192	EU-192A	RTO #4	4902 / 5785
SEP-192	EU-192B	RTO #5	4902 / 5785
SEP-011	EU-11A	#1 Gluten Meal Dryer Bypass	5346 / 5220R1
SEP-011	EU-11B	#1 Gluten Meal Dryer Bypass – Natural Gas	5346 / 5220R1
SEP-013	EU-13	60% Gluten Meal Recycle #3	5808 / 5768
SEP-018	EU-18A	#2 Gluten Meal Dryer Bypass	5347 / 5221
SEP-018	EU-18B	#2 Gluten Meal Dryer Bypass – Natural Gas	5347 / 5221
SEP-050	EU-50	60% Gluten Meal Recycle #2	5809 / 5769
SEP-051	EU-51	60% Gluten Meal Recycle #1	4826 / 5331
SEP-226	EU-226	Gluten Filters 1-15, 19-22 and Vacuum Pumps 1-4	4839 / 5485
SEP-230	EU-230	#16, #17, and #18 Gluten Filter Pumps	4838 / 5486
21% FIBER FEED			
SEP-019	EU-19A	#1 Fiber Feed Dryer Bypass	5348 / 5222
SEP-019	EU-19B	#1 Fiber Feed Dryer Bypass – Natural Gas	5348 / 5222
SEP-026	EU-005CA	#4 Fiber Feed Dryer Bypass	5349 / 5223
SEP-026	EU-005CB	#4 Fiber Feed Dryer Bypass – Natural Gas	5349 / 5223
SEP-027	EU-005DA	#5 Fiber Feed Dryer Bypass	5350 / 5224
SEP-027	EU-005DB	#5 Fiber Feed Dryer Bypass – Natural Gas	5350 / 5224
SEP-030	EU-30A	#2 Fiber Feed Dryer Bypass	5351 / 5225
SEP-030	EU-30B	#2 Fiber Feed Dryer Bypass – Natural Gas	5351 / 5225
SEP-032	EU-32	21% Gluten Feed Stedman Mill D.C.	4820 / 0
SEP-043	EU-43A	#3 Fiber Feed Dryer Bypass	5352 / 5226
SEP-043	EU-43B	#3 Fiber Feed Dryer Bypass – Natural Gas	5352 / 5226
SEP-211	EU-211	Feedhouse Miscellaneous Fugitive Emission Source	4841 / 6331
SEP-271	EU-32A	Stedman Mill	6188 / 6529
SEP-271	EU-32B	Stedman Mill	6188 / 6529
SEP-271	EU-32C	Stedman Mill	6188 / 6529
SEP-271	EU-32D	Stedman Mill	6188 / 6529
SEP-271	EU-32E	Stedman Mill	6188 / 6529
SEP-271	EU-32F	Stedman Mill	6188 / 6529
SEP-271	EU-32G	Stedman Mill	6188 / 6529
SEP-271	EU-32H	Stedman Mill	6188 / 6529
SEP-271	EU-271	#1 Vertical Fiber Cooler	6188 / 6529

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
GERM			
SEP-006	EU-6	#2 Fluid Bed Germ Dryer	4815 / 5974
SEP-015	EU-15	#1 Fluid Bed Germ Dryer	4541 / 4713
SEP-016	EU-12	Fiber Feed – Wet Feed Tank	4818 / 5782
SEP-016	EU-16A	#1 Steam Tube Germ Dryer	4818 / 5782
SEP-016	EU-16B	#2 Steam Tube Germ Dryer	4818 / 5782
SEP-016	EU-16C	#3 Steam Tube Germ Dryer	4818 / 5782
SEP-016	EU-16D	#4 Steam Tube Germ Dryer	4818 / 5782
SEP-021	EU-21	Germ Cooler	4819 / 6149
PELLET MILL			
SEP- 388	EU-1	#4 Pellet Cooler	5037 / 6077
SEP- 388	EU-29	#1 Pellet Cooler	5037 / 6077
SEP- 388	EU-36	Pellet Mill Dust Collection	5037 / 6077
SEP- 388	EU-38	#2 Pellet Cooler	5037 / 6077
SEP- 388	EU-39	#3 Pellet Cooler	5037 / 6077
ALCOHOL			
SEP-055	EU-55	Fermenter Vent / CO_2 Scrubber	6443 / 6507
SEP-057	EU-57	Yeast Propagator Tank #1	4676 / 5481
SEP-058	EU-58	Yeast Propagator Tank #2	4677 / 5482
SEP-059	EU-59	Yeast Propagator Tank #3	4678 / 5483
SEP-060	EU-60	Yeast Propagator Tank #4	4679 / 5484
SEP-069	EU-69	190 Product Scrubbing System	6426 / 6460
SEP-070	EU-70	200 Product Scrubbing System	6057 / 6333
SEP-071	EU-71	# 1 Alcohol Storage Tank	4684 / 5295
SEP-072	EU-72	# 2 Alcohol Storage Tank	4685 / 5296
SEP-073	EU-73	# 3 Alcohol Storage Tank	4686 / 5297
SEP-074	EU-74	Denaturant Storage Tank (Gasoline)	4687 / 5298
SEP-075	EU-75	#2 Hi-Wine Transfer Tank	4688 / 5299
SEP-076	EU-76A	Alcohol Loadout	4689 / 5017
SEP-076	EU-76B	Alcohol Loadout Flare – Natural Gas	4689 / 5017
SEP-077	EU-77	Corrosion Inhibitor Tank Vent	4690 / 5300
SEP-080	EU-80	#3 Hi-Wine Process Tank	4691 / 5301
SEP-081	EU-81	Fusel Oil Tank	4692 / 5302
SEP-082	EU-82	190 Proof Storage Tank	4693 / 5303
SEP-250	EU-250	Alcohol Collection Blower #1	6505 / 6334
SEP-251	EU-251	Alcohol Collection Blower #2	6506 / 6335
SEP-252	EU-252	Alcohol Collection Blower #3	6507 / 6336
STARCH MANUFACTURING			
SEP-002	EU-2A	Starch Drying – Spray Dryer	3446 / 3497
SEP-002	EU-2B	Start Drying – Natural Gas	3446 / 3497

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
SEP-003	EU-3	Corn Starch Loadout #1	3557 / 3498
SEP-004	EU-4	Corn Starch Loadout #2	3558 / 3499
SEP-007	EU-7	Starch Transfer and Loadout	3559 / 3500
MALTODEXTRIN			
SEP-120	EU-120	Maltodextrin Storage Bin #6	4513 / 5076
SEP-122	EU-122A	Maltodextrin Spray Dryer	5330 / 5585
SEP-122	EU-122B	Maltodextrin Spray Dryer – Natural Gas	5330 / 5585
SEP-123	EU-123	Maltodextrin Storage Bin #5	4514 / 5077
SEP-124	EU-124	Maltodextrin Packaging Transfer Line	5025 / 5320
SEP-125	EU-125	Maltodextrin Vacuum / Reprocess System	3980 / 4033
SEP-126	EU-126	Maltodextrin Storage Bin #4	4515 / 5078
SEP-127	EU-127	Maltodextrin Storage Bin #3	4516 / 5079
SEP-128	EU-128	Maltodextrin Storage Bin #2	4517 / 5080
SEP-129	EU-129	Maltodextrin Packaging System	5026 / 5321
SEP-130	EU-130	Maltodextrin Storage Bin #1	4518 / 5081
FRUCTOSE			
SEP-153	EU-153A	Fructose East MR Evaporator Vent	5681 / 5478
SYRUP / REFINERY			
SEP-034	EU-34A	Carbon Furnace	4664 / 5082
SEP-034	EU-34B	Carbon Furnace – Natural Gas	4664 / 5082
SEP-112	EU-112	Refinery Acid Tank Scrubber System	4490 / 4701
SEP-114	EU-114A	Carbon Furnace #2	4665 / 5083
SEP-114	EU-114B	Carbon Furnace #2 – Natural Gas	4665 / 5083
SEP-387	EU-387	Refinery Heavy Steepwater Tank	4842 / 6125
UTILITIES			
SEP-091	EU-91	Dry Starch Diesel Generator	4706 / 4847
SEP-092	EU-92	#3 Cooling Tower Emergency Generator	4707 / 4848
SEP-093	EU-93	Alcohol / Waste Treatment Emergency Generator	4708 / 4849
SEP-094	EU-94	Fructose Emergency Generator	4709 / 4850
	EU-95	North Corn Plant Diesel Fire Pump	Exempt
	EU-96	South Corn Plant Diesel Fire Pump	Exempt
SEP-097	EU-97	Boiler Room #2 Emergency Diesel Generator	4710 / 4851
SEP-170	EU-170A	Fructose Cooling Tower #2 Cell A	5550 / 5767
SEP-170	EU-170B	Fructose Cooling Tower #2 Cell B	5550 / 5767
SEP-170	EU-170C	Fructose Cooling Tower #2 Cell C	5550 / 5767
SEP-170	EU-170D	Fructose Cooling Tower #2 Cell D	5550 / 5767
SEP-170	EU-170E	Fructose Cooling Tower #2 Cell E	5550 / 5767
SEP-516	EU-516	Co-Gen Emergency Generator	4711 / 4852

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
	EU-517	East Co-Gen Diesel Fire Pump	Exempt
	EU-518	West Co-Gen Diesel Fire Pump	Exempt
SEP-540	EU-540	Co-Gen 2 Emergency Diesel Generator	4712 / 4853
COGENERATION PLANT			
SEP-459	EU-459	Natural Gas Fired Boiler #3	5238 / 5789
SEP-460	EU-460	Natural Gas Fired Boiler #2	5239 / 5790
SEP-501	EU-501A	Co-Gen Boiler #1 Bituminous Coal	6131 / 6267
SEP-501	EU-501AN	Co-Gen Boiler #1 Natural Gas	6131 / 6267
SEP-501	EU-501AF	Co-Gen Boiler #1 Fuel Oil	6131 / 6267
SEP-501	EU-501B	Co-Gen Boiler #2 Bituminous Coal	6131 / 6267
SEP-501	EU-501BN	Co-Gen Boiler #2 Natural Gas	6131 / 6267
SEP-501	EU-501BF	Co-Gen Boiler #2 Fuel Oil	6131 / 6267
SEP-502	EU-502A	Co-Gen Boiler #3 Bituminous Coal	6132 / 6268
SEP-502	EU-502AN	Co-Gen Boiler #3 Natural Gas	6132 / 6268
SEP-502	EU-502AF	Co-Gen Boiler #3 Fuel Oil	6132 / 6268
SEP-502	EU-502B	Co-Gen Boiler #4 Bituminous Coal	6132 / 6268
SEP-502	EU-502BN	Co-Gen Boiler #4 Natural Gas	6132 / 6268
SEP-502	EU-502BF	Co-Gen Boiler #4 Fuel Oil	6132 / 6268
SEP-503	EU-503	Bunker Dust Collector	6163 / 6235
SEP-504	EU-504	Crusher Building Dust Collector System	5801 / 5970
SEP-505	EU-505	Limestone Unloading Dust Collector	5802 / 5971
SEP-506	EU-506	Fly Ash Conveying Dust Collector A	5803 / 5972
SEP-506	EU-507	Fly Ash Conveying Dust Collector B	5803 / 5972
SEP-506	EU-509	Bed Ash Conveying Dust Collector A	5803 / 5972
SEP-506	EU-510	Bed Ash Conveying Dust Collector B	5803 / 5972
SEP-506	EU-520	Fly Ash Conveying Dust Collector C	5803 / 5972
SEP-506	EU-541	Bed Ash Conveying Dust Collector C	5803 / 5972
SEP-508	EU-508	Fly Ash Silo Vent Dust Collector	2079 / 2008
SEP-511	EU-511	Bed Ash Silo Vent Dust Collector	2076 / 2006
SEP-512	EU-512	Transferring Limestone into Storage Dust Collector	6730 / 6611
SEP-513	EU-513	Transferring Limestone into Storage Dust Collector	6729 / 6612
SEP-514	EU-514	Coal Truck Dump Pit Dust Collector (South)	6108 / 6236
SEP-515	EU-515	Coal Truck Dump Pit Dust Collector (North)	6120 / 6237
SEP-521	EU-521	Co-Gen HCl and Neutralization Tanks	4943 / 5306
SEP-522	EU-522	Co-Gen Turbine Lube Oil Tanks 1-5	4092 / 4035
SEP-530	EU-530A	Co-Gen Boiler No. 5 Bituminous Coal	5096 / 5045

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
SEP-530	EU-530AN	Co-Gen Boiler No. 5 Natural Gas	5096 / 5045
SEP-530	EU-530AF	Co-Gen Boiler No. 5 Fuel Oil	5096 / 5045
SEP-532	EU-532	Fly Ash Conveying System D	3735 / 4739
SEP-533	EU-533	Fly Ash Conveying System F	3734 / 4738
SEP-534	EU-534	Fly Ash Silo Vent	3733 / 4737
SEP-535	EU-535	Bed Ash Conveying System D	3732 / 4736
SEP-536	EU-536	Bed Ash Conveying System E	3732 / 4736
SEP-537	EU-537	Coal Bunker	5945 / 6055
SEP-538	EU-538	Bed Ash Silo Vent	3729 / 4733
SEP-539	EU-539	Co-Gen Turbine Lube Oil Tank No. 6	4093 / 4293
SEP-542	EU-542	Co-Gen Biomass Bin #1	5332 / 5479
SEP-543	EU-543	Co-Gen Biomass Bin #2	5333 / 5480
SEP-544	EU-544	Co-Gen Limestone Conveying Dust Collection	6284 / 6266
BULK CHEMICALS			
SEP-009	EU-9	Soda Ash Slur O Lyzer	4448 / 4700
SEP-020	EU-20	Hydrochloric Acid Storage Vent	2107 / 2025
SEP-033	EU-33	Bulk Precoat System	3981 / 4034
SEP-165	EU-165	Plate Wash Tanks	4283 / 4336
WASTE TREATMENT			
SEP-240	EU-240	Equalization Basin	4843 / 5309
SEP-242	EU-242	West Aeration Basin	5810 / 5968
SEP-243	EU-243	East Aeration Basin	5811 / 5969
SEP-244	EU-244	Biototron #1	4847 / 5312
SEP-245	EU-245	Biototron #2	4848 / 5313
SEP-246	EU-246	Biototron #3	4849 / 5314
SEP-247	EU-247	East Clarifier	4850 / 5315
SEP-248	EU-248	Center Clarifier	4851 / 5316
SEP-249	EU-249	West Clarifier	4852 / 5317
BIOMASS PROCESSING			
SEP-087	EU-87	Biosolids Dryer	4608 / 5307
SEP-089	EU-89	Biosolids Dryer	4619 / 5308
SEP-098	EU-98	Biosolids Storage Bin #1	4620 / 5013
SEP-099	EU-99	Biosolids Storage Bin #2	4621 / 5014
SEP-100	EU-100	Biosolids Storage Bin #3	4622 / 5015
SEP-101	EU-101	Biomass Truck Loadout	4623 / 5086
DRY MILL			
SEP-400	EU-400A	#3 Truck Scale	6564 / 6563
SEP-400	EU-400C	Truck Dump Receiving Drag #3	6564 / 6563

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
SEP-400	EU-400E	#2 Rail Dump	6564 / 6563
SEP-400	EU-400F	#2 Rail Dump Transfer Drag	6564 / 6563
SEP-400	EU-400G	#2 Rail Receiving Drag	6564 / 6563
SEP-400	EU-400H	#3 Bucket Leg	6564 / 6563
SEP-400	EU-400I	#2 Reclaim Conveyor	6564 / 6563
SEP-400	EU-400J	#3 Headhouse Top Loading Conveyor	6564 / 6563
SEP-400	EU-400L	#2 Silo Storage Bin	6564 / 6563
SEP-400	EU-400M	#4 Silo Storage Bin	6564 / 6563
SEP-400	EU-400P	Bulk Weigh Scale Belt	6564 / 6563
SEP-400	EU-401B	#2 Truck Scale	6564 / 6563
SEP-400	EU-401D	Truck Dump Receiving Drag #2	6564 / 6563
SEP-400	EU-401H	#5 Bucket Leg	6564 / 6563
SEP-400	EU-401I	Rail Transfer Conveyor	6564 / 6563
SEP-400	EU-401K	#2 Bucket Leg	6564 / 6563
SEP-400	EU-401P	Surge Bin	6564 / 6563
SEP-400	EU-401Q	Bulk Weigh Scale Belt	6564 / 6563
SEP-400	EU-401W	#1 Fines Storage Bin	6564 / 6563
SEP-400	EU-401X	Cracked Corn & Fines Conveyor	6564 / 6563
SEP-400	EU-401Y	Cracked Corn & Fines Weigh Belt	6564 / 6563
SEP-400	EU-401Z	Cracked Corn & Fines Bucket Elevator	6564 / 6563
SEP-401	EU-401A	#1 Truck Scale	6565 / 6564
SEP-401	EU-401B	#2 Truck Scale	6565 / 6564
SEP-401	EU-401C	Truck Dump Receiving Drag #1	6565 / 6564
SEP-401	EU-401D	Truck Dump Receiving Drag #2	6565 / 6564
SEP-401	EU-401E	#1 Rail Dump	6565 / 6564
SEP-401	EU-401F	#1 Rail Dump Transfer Drag	6565 / 6564
SEP-401	EU-401G	#1 Rail Receiving Drag	6565 / 6564
SEP-401	EU-401H	#5 Bucket Leg	6565 / 6564
SEP-401	EU-401I	Rail Transfer Conveyor	6565 / 6564
SEP-401	EU-401J	#1 Bucket Leg	6565 / 6564
SEP-401	EU-401K	#2 Bucket Leg	6565 / 6564
SEP-401	EU-401L	#4 Bucket Leg	6565 / 6564
SEP-401	EU-401M	#1 Reclaim Conveyor	6565 / 6564
SEP-401	EU-401N	#2 Headhouse Top Loading Conveyor	6565 / 6564
SEP-401	EU-401O	#1 Headhouse Top Loading Conveyor	6565 / 6564
SEP-401	EU-401P	Surge Bin	6565 / 6564
SEP-401	EU-401Q	Bulk Weigh Scale Belt	6565 / 6564
SEP-401	EU-401S	#1 Silo Storage Bin	6565 / 6564
SEP-401	EU-401T	#3 Silo Storage Bin	6565 / 6564
SEP-401	EU-401U	#5 Silo Storage Bin	6565 / 6564
SEP-401	EU-401W	#1 Fines Storage Bin	6565 / 6564
SEP-401	EU-401X	Cracked Corn & Fines Conveyor	6565 / 6564
SEP-401	EU-401Y	Cracked Corn & Fines Weigh Belt	6565 / 6564

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
SEP-401	EU-401Z	Cracked Corn & Fines Bucket Elevator	6565 / 6564
SEP-401	EU-400P	Bulk Weigh Scale Belt	6565 / 6564
SEP-403	EU-403A	Hammermill #1	6458 / 6313
SEP-403	EU-403B	Hammermill #2	6458 / 6313
SEP-403	EU-403C	Hammermill #3	6458 / 6313
SEP-403	EU-403D	Hammermill #4	6458 / 6313
SEP-403	EU-403F	Hammermill #5	6458 / 6313
SEP-403	EU-403G	Hammermill #6	6458 / 6313
SEP-403	EU-403H	Hammermill #7	6458 / 6313
SEP-403	EU-403I	Elevator to Mill Corn Belt Conveyor A	6458 / 6313
SEP-403	EU-403J	Elevator to Mill Corn Belt Conveyor B	6458 / 6313
SEP-403	EU-403M	Rotex Scalper A	6458 / 6313
SEP-403	EU-403N	Rotex Scalper B	6458 / 6313
SEP-403	EU-403O	Mill Storage Hopper A	6458 / 6313
SEP-403	EU-403P	Mill Storage Hopper B	6458 / 6313
SEP-403	EU-403Q	Mill Flour Drag A	6458 / 6313
SEP-403	EU-403R	Mill Flour Drag B	6458 / 6313
SEP-403	EU-403S	Mill Blender A	6458 / 6313
SEP-403	EU-403T	Mill Blender B	6458 / 6313
SEP-410	EU-410	Equalization Tank	5709 / 6271
SEP-411	EU-411	WWTP Aeration Tank	5195 / 6272
SEP-412	EU-412A	WWTP Anaerobic Digester	5196 / 6310
SEP-412	EU-412B	WWTP Anaerobic Digester	5196 / 6310
SEP-412	EU-412C	WWTP Anaerobic Digester	5196 / 6310
SEP-413	EU-413	Membrane Filtration Tank #1	5764 / 6273
SEP-414	EU-414	Membrane Filtration Tank #2	5765 / 6274
SEP-415	EU-415	Membrane Filtration Tank #3	5766 / 6275
SEP-416	EU-416	Membrane Filtration Tank #4	5767 / 6276
SEP-420	EU-420N	Dry Slurry Mix Tank #1	5197 / 6270
SEP-420	EU-420O	Dry Slurry Mix Tank #2	5197 / 6270
SEP-420	EU-420P	Pre-Cook Tank #1	5197 / 6270
SEP-420	EU-420Q	Pre-Cook Tank #2	5197 / 6270
SEP-420	EU-420R	Barometric Condenser #1	5197 / 6270
SEP-420	EU-420S	Barometric Condenser #2	5197 / 6270
SEP-420	EU-420T	Liquifaction Tank #1	5197 / 6270
SEP-420	EU-420U	Liquifaction Tank #2	5197 / 6270
SEP-420	EU-420V	Liquifaction Tank #3	5197 / 6270
SEP-420	EU-420W	Liquifaction Tank #4	5197 / 6270
SEP-420	EU-420Z	Liquifaction Tank #7	5197 / 6270
SEP-420	EU-420AA	Liquifaction Tank #8	5197 / 6270
SEP-420	EU-420BB	Liquifaction Tank #9	5197 / 6270
SEP-420	EU-420CC	Liquifaction Tank #10	5197 / 6270

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
SEP-420	EU-420DD	Distillation and Dehydration	5197 / 6270
SEP-420	EU-420EE	Nitrogen Stripper	5197 / 6270
SEP-420	EU-420FF	Stillage Evaporation #1	5197 / 6270
SEP-420	EU-420GG	Stillage Evaporation #2	5197 / 6270
SEP-420	EU-420HH	Stillage Evaporation #3	5197 / 6270
SEP-420	EU-420II	Stillage Evaporation #4	5197 / 6270
SEP-420	EU-420JJ	Decanter Feed Tank	5197 / 6270
SEP-420	EU-420KK	Centrate Tank	5197 / 6270
SEP-420	EU-420LL	Condensed Distillers Tank	5197 / 6270
SEP-420	EU-420MM	Evaporator Feed Tank #1	5197 / 6270
SEP-420	EU-420NN	Evaporator Feed Tank #2	5197 / 6270
SEP-420	EU-420OO	Evaporator Product Tank	5197 / 6270
SEP-420	EU-420PP	Evaporator Condensate Tank	5197 / 6270
SEP-420	EU-420RR	Process Water Tank	5197 / 6270
SEP-420	EU-420SS	Wastewater Transfer Tank	5197 / 6270
SEP-420	EU-420TT	Yeast Propagator #1	5197 / 6270
SEP-420	EU-420UU	Yeast Propagator #2	5197 / 6270
SEP-420	EU-420VV	Yeast Propagator #3	5197 / 6270
SEP-420	EU-420XX	Fermenter #1	5197 / 6270
SEP-420	EU-420YY	Fermenter #2	5197 / 6270
SEP-420	EU-420ZZ	Fermenter #3	5197 / 6270
SEP-420	EU-420AAA	Fermenter #4	5197 / 6270
SEP-420	EU-420BBB	Fermenter #5	5197 / 6270
SEP-420	EU-420CCC	Fermenter #6	5197 / 6270
SEP-420	EU-420DDD	Fermenter #7	5197 / 6270
SEP-420	EU-420EEE	Fermenter #8	5197 / 6270

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
SEP-420	EU-420FFF	Fermenter #9	5197 / 6270
SEP-420	EU-420GGG	Fermenter #10	5197 / 6270
SEP-420	EU-420HHH	Fermenter #11	5197 / 6270
SEP-420	EU-420III	Fermenter #12	5197 / 6270
SEP-420	EU-420JJJ	Fermenter #13	5197 / 6270
SEP-420	EU-420KKK	Fermenter #14	5197 / 6270
SEP-420	EU-420LLL	Fermenter #15	5197 / 6270
SEP-420	EU-420MMM	Fermenter #16	5197 / 6270
SEP-420	EU-420TTT	Fermenter #23	5197 / 6270
SEP-420	EU-420UUU	Fermenter #24	5197 / 6270
SEP-420	EU-420VVV	Beerwell #1	5197 / 6270
SEP-420	EU-420WWW	Beerwell #2	5197 / 6270
SEP-422	EU-422	DDGS Cooler #1	6785 / 0
SEP-423	EU-423	DDGS Cooler #2	6786 / 0
SEP-425	EU-425	Indirect-Fired DDGS Dryer #1	5202 / 6277
SEP-426	EU-426	Indirect-Fired DDGS Dryer #2	5203 / 6279
SEP-427	EU-427	Indirect-Fired DDGS Dryer #3	5204 / 6281
SEP-428	EU-428	Indirect-Fired DDGS Dryer #4	5205 / 6282
SEP-429	EU-429	Indirect-Fired DDGS Dryer #5	5206 / 6284
SEP-440	EU-440	Alcohol Process Day Tank #1	5217 / 6285
SEP-441	EU-441	Alcohol Process Day Tank #2	5218 / 6286
SEP-442	EU-442	Alcohol Process Quality Control Tank	5219 / 6287
SEP-443	EU-443	Alcohol Process Reclaim Tank	5220 / 6288
SEP-444	EU-444	Alcohol Storage Tank #1	6615 / 6525
SEP-445	EU-445	Alcohol Storage Tank #2	6616 / 6526
SEP-447	EU-447	Denaturant Storage Tank	6617 / 6527
SEP-448	EU-448	Corrosion Inhibitor Storage Tank	5226 / 6289
SEP-449	EU-449	190° Alcohol Process Tank	5227 / 6290
SEP-450	EU-450A	Ethanol Loadout Spout #1	5228 / 6308
SEP-450	EU-450B	Ethanol Loadout Spout #2	5228 / 6308
SEP-450	EU-450C	Ethanol Loadout Spout #3	5228 / 6308
SEP-450	EU-450D	Ethanol Loadout Spout #4	5228 / 6308
SEP-450	EU-450E	Ethanol Loadout Spout #5	5228 / 6308

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
SEP-450	EU-450F	Ethanol Loadout Spout #6	5228 / 6308
SEP-450	EU-450G	Ethanol Loadout Spout #7	5228 / 6308
SEP-450	EU-450H	Ethanol Loadout Spout #8	5228 / 6308
SEP-451	EU-450A	Ethanol Loadout Spout #1	5229 / 6309
SEP-451	EU-450B	Ethanol Loadout Spout #2	5229 / 6309
SEP-451	EU-450C	Ethanol Loadout Spout #3	5229 / 6309
SEP-451	EU-450D	Ethanol Loadout Spout #4	5229 / 6309
SEP-451	EU-450E	Ethanol Loadout Spout #5	5229 / 6309
SEP-451	EU-450F	Ethanol Loadout Spout #6	5229 / 6309
SEP-451	EU-450G	Ethanol Loadout Spout #7	5229 / 6309
SEP-451	EU-450H	Ethanol Loadout Spout #8	5229 / 6309
SEP-452	EU-452	Fire Pump Engine #1	5230 / 6291
SEP-453	EU-453	Fire Pump Engine #2	5236 / 6292
SEP-454	EU-454	Fire Pump Engine #3	5237 / 6293
SEP-455	EU-455	Fire Pump Engine #4	5231 / 6294
SEP-457	EU-457	Emergency Generator #2	5233 / 6295
SEP-478	EU-478	Feed Storage and Reclaim Building	6734 / 6601
SEP-478	EU-478A	DDGS Rail Loading Shuttle Drag Conveyor	6734 / 6601
SEP-479	EU-479	Sulfuric Acid Storage Tank	5241 / 6296
SEP-480	EU-480	Flat Feed Storage and Reclaim Building	5242 / 0
SEP-481	EU-481G	DDGS Feed Elevator #2	6736 / 6609
SEP-481	EU-481H	DDGS Flat Storage Reclaim L Path Conveyor	6736 / 6609
SEP-481	EU-481I	DDGS Bulkweigher Feed Elevator #2	6736 / 6609
SEP-481	EU-481J	DDGS Truck Loading Shuttling Drag Conveyor	6736 / 6609
SEP-482	EU-482	Dry Feed Storage Silo #1	5244 / 6297
SEP-485	EU-485	30% Condensed Distillers Solubles Loadout	5247 / 6298
SEP-486	EU-486A	Cooling Tower Cell #1	5248 / 6299
SEP-486	EU-486B	Cooling Tower Cell #2	5248 / 6299
SEP-486	EU-486C	Cooling Tower Cell #3	5248 / 6299
SEP-486	EU-486D	Cooling Tower Cell #4	5248 / 6299
SEP-486	EU-486E	Cooling Tower Cell #5	5248 / 6299
SEP-486	EU-486F	Cooling Tower Cell #6	5248 / 6299
SEP-486	EU-486G	Cooling Tower Cell #7	5248 / 6299
SEP-486	EU-486H	Cooling Tower Cell #8	5248 / 6299
SEP-486	EU-486I	Cooling Tower Cell #9	5248 / 6299
SEP-486	EU-486J	Cooling Tower Cell #10	5248 / 6299
SEP-495	EU-495	Dry Grind Unleaded Fuel Tank	5768 / 6300
SEP-496	EU-496	Dry Grind Diesel Fuel Tank	5769 / 6301
SEP-497	EU-497A	Cooled DDGS Belt Conveyor #1	6735 / 6610
SEP-497	EU-497B	DDGS Incline Drag Conveyor #1	6735 / 6610
SEP-497	EU-497C	DDGS Flat Storage Piling Drag Conveyor	6735 / 6610
SEP-497	EU-497D	DDGS Silo #1 Recirculation Drag Conveyor	6735 / 6610
SEP-497	EU-497E	DDGS Silo #1 Laidig Conveyor	6735 / 6610

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Numbers
SEP-497	EU-497I	DDGS Bulkweigher Feed Elevator	6735 / 6610
SEP-497	EU-497J	DDGS Silo Feed Elevator	6735 / 6610
SEP-497	EU-497K	DDGS Bulkweigh Scale #1	6735 / 6610
SEP-497	EU-497L	DDGS Bulkweigh Scale #2	6735 / 6610
SEP-497	EU-497M	DDGS Bulkweigher Discharge Drag Conveyor #1	6735 / 6610
SEP-497	EU-497N	DDGS Bulkweigher Discharge Drag Conveyor #2	6735 / 6610
SEP-497	EU-497O	DDGS Silo #1 Laidig Conveyor	6735 / 6610
SEP-497	EU-497P	DDGS Silo #1 Reclaim Drag Conveyor	6735 / 6610
SEP-498	EU-498	Dry Mill Haul Roads	6623 / 6528
SEP-499	EU-499	Dry Mill VOC Emissions from Equipment Leaks	5251 / 6303

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
ELEVATOR	
MILL	
EU-225	Corn Wet Milling – Millhouse Sewage Tank (ATI 3395 / PTO 3259)
60% GLUTEN MEAL	
GERM	
21% FIBER FEED	
PELLET MILL	
ALCOHOL	
EU-88	Alcohol Caustic Tank (ATI 3769 / PTO 3593)
STARCH MANUFACTURING	
MALTODEXTRIN	
EU-121	Maltodextrin – Evaporation (ATI 5138 / PTO 5230)
FRUCTOSE	

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-42	Dilute HCl Storage Tank (ATI 2110 / PTO 2021)
EU-52	Reclaimed Acid Tank Vent (ATI 1570 / PTO 1293)
EU-53	Anion Waste Storage (ATI 1563 / PTO 1289)
EU-54	SO_2 Dilution Tank & Magnesium Bisulfite Storage (ATI 4099 / PTO 4068)
EU-151	Fructose Evaporation (ATI 3381 / PTO 3241)
EU-152	Fructose Evaporation (ATI 3382 / PTO 3242)
EU-154	Fructose Neutralization (ATI 3378 / PTO 3244)
EU-155	Fructose Neutralization (ATI 3379 / PTO 3245)
EU-159	Fructose Evaporation (ATI 3224 / PTO 3135)
SYRUP / REFINERY	
EU-111	Corn Wet Milling – Hotwell Sewer Tank (ATI 3427 / PTO 3237)
EU-117	Corn Wet Milling – No. 2 Converter Hotwell (ATI 3431 / PTO 3240)
EU-118	Corn Wet Milling - #3 & #4 Evaporator Jets Hotwell Vent (ATI 3970 / PTO 3900)
EU-389	Carbon Transfer System (ATI 5033 / PTO 5304)
EU-390	Carbon Transfer System (ATI 5034 / PTO 5305)
UTILITIES	
EU-519	Boiler Room Sewer Tank Vent (ATI 3439 / PTO 3353)
EU-523	Corn Plant Diesel Fuel Tank (ATI 4590 / PTO 4702)
EU-524	Corn Plant Gasoline Tank (ATI 4591 / PTO 4703)
CO-GENERATION PLANT	
BULK CHEMICALS	
EU-164	Plate Adhesive Hood (ATI 5914 / PTO 5973)
EU-300	CT #1 Sulfuric Acid Tank (ATI 4658 / PTO 4726)
EU-301	CT #2 Sulfuric Acid Tank (ATI 4657 / PTO 4727)
EU-303	Alcohol Sulfuric Acid Tank (ATI 4655 / PTO 4729)
EU-305	Cogen North CT Sulfuric Acid Tank (ATI 4653 / PTO 4731)
EU-306	Cogen South CT Sulfuric Acid Tank (ATI 4652 / PTO 4732)
WASTE TREATMENT	
EU-84	Treated Outfall #1 Building - Outfall Plume (ATI 3681 / PTO 3505)
EU-85	Treated Outfall #2 Building (ATI 3426 / PTO 3228)
EU-302	Aeration Basin Sulfuric Acid Tank (ATI 4656 / PTO 4728)
BIOMASS PROCESSING	
DRY MILL	

Insignificant Emission Unit Number	Insignificant Emission Unit Description
MISCELLANEOUS	
IU-001	New Oil Storage Tanks
IU-002	Used Oil Storage Tanks
IU-003	Backup Generator Fuel Tanks
IU-004	Fire Pump Fuel Tanks
IU-005	Parts Cleaners
DMS	DM CT Sulfuric Acid Tank
CDT	Co-Gen Diesel Fuel Tank
CGT	Co-Gen Gasoline Tank
ALO	WM Alcohol Loadout Diesel Tank
DSD	Dry Starch Generator Diesel Tank
WTD	Waste Treatment Diesel Tank
C3D	Cooling Tower 3 Generator Diesel Tank
FGD	Fructose Generator Diesel Tank
NFP	Corn Plant North Fire Pump Diesel Tank
SFP	Corn Plant South Fire Pump Diesel Tank
BRD	CP Boiler Room Generator Diesel Tank
CWF	Co-Gen West Pump Diesel Tank
CEF	Co-Gen East Fire Pump Diesel Tank
CD1	Co-Gen Generator #1 Diesel Tank
CD2	Co-Gen Generator #2 Diesel Tank

II. Plant-Wide Conditions

Facility Name: ADM Corn Processing
Permit Number: 08-TV-004R1-M001

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

Permit Duration

The term of this permit is: less than 5 years
Commencing on: January 6, 2017
Ending on: January 5, 2022

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

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: LCO 10.7

Sulfur Dioxide (SO_2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

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

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

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

Particulate Matter:
No person shall permit, cause, suffer or allow the emission of particulate matter into the atmosphere in any one hour from any emission point from any process equipment at a rate in

excess of that specified in Table I for the process weight rate allocated to such emission point. The emission standards in LCO 10.9 (1)"a" shall apply and those specified in LCO 10.8 and 10.9 and Table I shall not apply to each process of the types listed in those sections, with the following exception: whenever the compliance status, history of operations, ambient air quality in the vicinity, or the type of control equipment utilized, would warrant maximum control, the Air Pollution Control Officer may enforce 0.1 grain per standard cubic foot of exhaust gas, or Table I of this section, whichever would result in the lowest allowable emission rate.

Authority for Requirement: LCO 10.9(1)

Fugitive Dust:

Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (The preceding sentence is State only.) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, 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"

Regulatory Authority
This facility is located 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

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40 CFR 63 NESHAP Subpart FFFF, Miscellaneous Organic Chemical Manufacturing
The requirements of the NESHAP in 40 CFR 63, Subpart FFFF apply to the miscellaneous organic chemical manufacturing process units at this source (including but not limited to process vents, storage tanks, transfer stations, pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, and instrumentation systems used in the ethanol manufacturing process). Specific emission units subject to this requirement will be determined by the compliance date. The requirements include, but are not limited to the following:

The emission limits, work practice standards, and compliance requirements pursuant to 40 CFR §63.2450-63.2490.

The notification, reporting, and recordkeeping requirements pursuant to 40 CFR §63.2515-63.2525.

The proposed compliance date for the existing chemical manufacturing process units at this source are May 10, 2008. The facility must comply with all requirements of this subpart by the compliance date as determined in the final rule.

Authority for Requirement: LCO 10.9(4) “ffff”
567 IAC 23.1(4)"cf"
40 CFR 63 Subpart FFFF

Compliance Plan

The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, ADM Corn Processing is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, ADM Corn Processing shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

III. Emission Point-Specific Conditions

Facility Name: ADM Corn Processing
Permit Number: 08-TV-004R1-M001

Emission Point ID Number: SEP-008

Process Area: ELEVATOR

Table Elevator-1. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-008	EU-8	Corn Truck Receiving	Corn	45,000 bu/hr	CE-008	Baghouse
SEP-008	EU-8B	400 Leg	Corn	45,000 bu/hr	CE-008	Baghouse
SEP-008	EU-8C	Transfer Conveyor	Corn	25,000 bu/hr	CE-008	Baghouse
SEP-008	EU-10A	60% Gluten Meal Cooler #1	60% Gluten Meal	18,750 bu/hr	CE-010	Baghouse
SEP-008	EU-10B	60% Gluten Meal Cooler #2	60% Gluten Meal	18,750 bu/hr	CE-010	Baghouse
SEP-008	EU-22	Corn Cleaners System B	Corn	30,000 bu/hr	CE-022	Baghouse
SEP-008	EU-22B	Cleaner Leg	Corn	33,300 bu/hr	CE-022	Baghouse
SEP-008	EU-23	Cracked Corn Receiving	Cracked Corn	25,000 lb/hr	CE-023	Baghouse
SEP-008	EU-40	Germ to Storage Conveying	Germ	64,690 lb/hr	CE-040	Baghouse
SEP-008	EU-48	Gluten Meal Milling	60% Gluten Meal	45,000 lb/hr	CE-048	Baghouse
SEP-008	EU-49	Gluten Meal Storage	60% Gluten Meal	18,750 bu/hr	CE-049	Baghouse
SEP-008	EU-86A	Gluten Truck Loading	60% Gluten Meal	18,750 bu/hr	CE-086	Baghouse
SEP-008	EU-86B	Gluten Rail Loading	60% Gluten Meal	200 ton/hr	CE-086	Baghouse
SEP-008	EU-180B	Steel Tank Leg	Corn	20,000 bu/hr	CE-180	Baghouse
SEP-008	EU-180C	Silo to Steeps Drag Conveyor	Corn	25,000 bur/hr	CE-180	Baghouse
SEP-008	EU-180D	Silo to Steeps Drag Conveyor	Corn	25,000 bu/hr	CE-180	Baghouse
SEP-008	EU-180E	Steep House Corn Hopper	Corn	3,000 bushels	CE-180	Baghouse
SEP-008	EU-181	Rail Dump	Corn	30,000 bu/hr	CE-181	Baghouse

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-008	EU-181B	200 Leg	Corn	30,000 bu/hr	CE-181	Baghouse

Note: EU-8, EU-8B, and EU-8C are controlled by CE-008. This is the normal operation that represents 99% of the operating time. CE-008, CE-180, and CE-181 are connected through common ducting but are typically isolated from each other with slide gates. During maintenance periods, a baghouse can be isolated from the system and the other two can be opened to share the load. The flow rates will be reduced during maintenance periods.

Applicable Requirements

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

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

Table Elevator-2. Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-008	Opacity	20%[4,5]	LCO 10.7
SEP-008	Opacity	5%[4,5] (truck unloading)	LCPH ATI 6051 / PTO 6148R1 40 CFR §60.302(c)(1)
SEP-008	Opacity	0% (grain handling operations)[4,5]	LCPH ATI 6051 / PTO 6148R1 40 CFR §60.302(c)(2)
SEP-008	PM/PM_{10}	6.05 lb/hr[3]	LCPH ATI 6051 / PTO 6148R1
SEP-008	PM_{10}	14.4 tpy[6]	LCPH ATI 6051 / PTO 6148R1
SEP-008	PM	0.01 gr/dscf	LCPH ATI 6051 / PTO 6148R1 40 CFR §60.302(b)(1)
SEP-008	VOC	9.06 lb/hr	LCPH ATI 6051 / PTO 6148R1

[1] Standard is expressed as the average of 3 runs.
[2] Standard is a 12-month rolling total.
[3] Emission rate used to demonstrate no exceedance of the National Ambient Air Quality Standards (NAAQS).
[4] The observation of **visible emissions** of air contaminants as defined in LCO 10.2 will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the visible emissions. If visible emissions continue after the corrections, Linn County may require additional proof to demonstrate compliance (e.g., stack testing).
[5] An exceedance of no visible emissions will require the owner/operator to promptly conduct an EPA Method 9 evaluation to determine compliance with the NSPS DD opacity limit.
[6] This emission limit is a PSD Synthetic minor limit that was established for this project which includes EP-8, EP-180 and EP-181.

Operating Limits and Requirements

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

Control Equipment:
Multiple baghouses shall be installed to control particulate matter emissions. 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 condition 14 [Operating Limits] shall be installed, maintained and operating during the operation of the emission unit and control equipment at all times.

Authority for Requirement: LCPH ATI 6051 / PTO 6148R1

New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability:
In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCO 10.9(2) and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (national emission standards for hazardous air pollutants) shall be applicable as specified in LCO 10.9(3) and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (national emission standards for hazardous air pollutants for source categories) shall be applicable as specified in LCO 10.9(4) and 567 IAC 23.1(4).

A. This emission source, new conveyors only, is subject to Subpart A (General Provisions, 40 CFR §60.1 – 40 CFR §60.19) and Subpart DD, Standards of Performance for Grain Elevators; 40 CFR §60.300 - 40 CFR §60.304) of the New Source Performance Standards (NSPS).

B. This emission unit is not subject to a NESHAP as there are no subparts for this source category.

Authority for Requirement: LCPH ATI 6051 / PTO 6148R1

Operating Limits:

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

B. The differential pressure measured across each baghouse, with the exception of EU-008, shall be greater than 0.2 inches of water column and less than 6 inches of water column. The differential pressure measured across EU-008 shall be greater than 1.0 inch of water column and less than 8.0 inches of water column.

C. Each baghouse shall be maintained according to the manufacturer's specifications and/or good operating practices.

D. The baseline actual emissions for the project are equal to 15.56 tons per year for PM_{10}. The baseline actual emissions shall remain unchanged throughout the five (5) year period following the issuance of this permit [LCPH Project #1687].

E. The owner or the operator shall determine the actual emissions for the project by summing the emissions from the following emission points each month: EP-8, EP-180 and EP-181.

F. Actual emissions minus the baseline actual emissions from the project shall not exceed the PSD significant levels: 14.4 tons per 12-month rolling period of PM_{10}. If the emission increases from the project do not exceed the PSD significance levels at any time from the resumption of regular operations to the end of the five (5) year review period,

the 14.4 tons per year limit will no longer apply. If these limits are exceeded during the five (5) year review period, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7).

G. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of the project the owner or operator shall document:

1) A description of the project,

2) Identification of the emissions unit(s) whose emissions of a regulated NSR pollutant could be affected by the project, and

3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of "projected actual emissions" in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

H. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:

1) Monitor the emission of any regulated NSR pollutant that could increase as a result of the project that is emitted by any emissions unit identified in Condition 14.G.(2).

2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of five (5) years following resumption of regular operations and maintain a record of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity or potential to emit of that regulated NSR pollutant at such emissions unit (for the purposes of this requirements, "regular" shall be determined by the department on a case-by-case basis).

3) Maintain a written record containing the information required in this subparagraph.

I. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

Authority for Requirement: LCPH ATI 6051 / PTO 6148R1

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

A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly conduct an EPA Method 9 evaluation to determine compliance with the NSPS DD opacity limit, investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. Record the weekly average facility grind rate.

C. Monitor and record the pressure differential across each baghouse on a weekly basis while the control equipment and emission units are in operation.

D. Monitor and record any maintenance and repair completed on the control devices.

E. Record the monthly sum of the actual PM_{10} emissions from the following emission points: EP-008, EP-180 and EP-181.

F. Record monthly the 12-month rolling value of the actual emissions minus the baseline actual emissions from the following emission points: EP-008, EP-180 and EP-181. This written record shall be retained by the owner or operator for a period of ten years after the project is completed.

G. The facility is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish BAE that are unrelated to this project (i.e., increased utilization due to demand growth). The facility shall be required to include a justification for any emissions excluded due to demand growth.

H. Per 567 IAC 33.3(18)"f"(1), the owner or operator shall maintain a record of the information required in Condition 14.G. of this permit.

I. Per 567 IAC 33.3(18)"f"(4) and 567 IAC 33.3(18)"f"(5), the owner or operator shall maintain a record containing the information required in Condition 14.H. of this permit and that record shall be retained by the owner or operator for a period of ten (10) years after the project is completed.

Authority for Requirement: LCPH ATI 6051 / PTO 6148R1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Elevator-3.

		Stack Characteristics				
EP	**LCPH ATI / PTO Numbers**	**Stack Height (feet, above ground)**	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (acfm)**
SEP-008	6051 / 6148R1	150	Vertical, unobstructed	72	95	125,000

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

Monitoring Requirements

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

Stack Testing:
The following stack tests shall be performed:

Pollutant – PM_{10}
1st Stack Test to be Completed by – within first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter
1st Stack Test to be Completed by – within first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

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)

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

Emission Point ID Number: SEP-061, SEP-062, SEP-063, SEP-064

Process Area: ELEVATOR

Table Elevator-4. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-061	EU-61	#1 Steel Corn Storage Tank	Corn	45,000 bu/hr	CE-061	Baghouse
SEP-062	EU-62	#2 Steel Corn Storage Tank	Corn	45,000 bu/hr	CE-062	Baghouse
SEP-063	EU-63	#3 Steel Corn Storage Tank	Corn	45,000 bu/hr	CE-063	Baghouse
SEP-064	EU-64	#4 Steel Corn Storage Tank	Corn	45,000 bu/hr	CE-064	Baghouse

Applicable Requirements

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

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

Table Elevator-5. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-061 SEP-062 SEP-063 SEP-064	EU-61 EU-62 EU-63 EU-64	PM/PM_{10}	0.09 lb/hr	LCO ATI 6210 / PTO 6051 LCO ATI 6211 / PTO 6052 LCO ATI 6212 / PTO 6053 LCO ATI 6213 / PTO 6054
		Opacity	20%	LCO ATI 6210 / PTO 6051 LCO ATI 6211 / PTO 6052 LCO ATI 6212 / PTO 6053 LCO ATI 6213 / PTO 6054 LCO 10.7
		PM	0.1 gr/dscf	LCO ATI 6210 / PTO 6051 LCO ATI 6211 / PTO 6052 LCO ATI 6212 / PTO 6053 LCO ATI 6213 / PTO 6054 567 IAC 23.4(7) LCO 10.9(1)"g"

Operational Limits & Requirements

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

Control Device:

A baghouse shall be used to control particulate emissions. The control equipment shall be maintained on this source in a good operating condition at all times. A manometer (or equivalent instrumentation) shall also be installed and maintained on this source.

Authority for Requirement: ATI 6210 / PTO 6051
ATI 6211 / PTO 6052
ATI 6212 / PTO 6053
ATI 6213 / PTO 6054

Operating Limits:

A. The differential pressure measured across the baghouse, CE-061, 062, 063, or 064, shall be maintained between 0.25 inches of water column and 7 inches of water column, with the exception of unit startup.

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

C. The facility-wide grind rate shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

Authority for Requirement: ATI 6210 / PTO 6051
ATI 6211 / PTO 6052
ATI 6212 / PTO 6053
ATI 6213 / PTO 6054

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

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. Monitor and record any maintenance and repair completed on the control equipment.

C. Monitor and record the differential pressure on the baghouse on a weekly basis while the control equipment and emission units are in operation.

D. Calculate and record the weekly facility grind rate average based on 52-week rolling average.

Authority for Requirement: ATI 6210 / PTO 6051
ATI 6211 / PTO 6052
ATI 6212 / PTO 6053
ATI 6213 / PTO 6054

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Elevator-6.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (acfm)**
SEP-061	6210 / 6051	88	Vertical, unobstructed	6	70	1035
SEP-062	6211 / 6052	88	Vertical, unobstructed	6	70	1035
SEP-063	6212 / 6053	88	Vertical, unobstructed	6	70	1035
SEP-064	6213 / 6054	88	Vertical, unobstructed	6	70	1035

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

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

Stack Testing:
Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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] Compliance Assurance Monitoring is required for PM and an agency-approved operation and maintenance plan is required for PM_{10} at SEP-061, SEP-062, SEP-063, and SEP-064; however, as PM and PM10 are controlled by the same equipment, and CAM is more stringent, the agency-approved operation and maintenance plan requirement has been waived. Note that the increased frequency of differential pressure observations from weekly to daily is required by CAM to meet the minimum standards.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

Emission Point ID Number: SEP-180, SEP-181

Process Area: ELEVATOR

Table Elevator-7. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-180/181	EU-180	Bulk Weigh Scale	Corn	40,000 bu/hr	CE-180	Baghouse
SEP-180/181	EU-180B	Steel Tank Leg	Corn	20,000 bu/hr	CE-180	Baghouse
SEP-180/181	EU-180C EU-180D	Silo to Steeps Drag Conveyors	Corn	25,000 bu/hr each	CE-180	Baghouse
SEP-180/181	EU-180E	Steep House Corn Hopper	Corn	3000 bu/hr	CE-180	Baghouse
SEP-180/181	EU-181	Rail Dump	Corn	30,000 bu/hr	CE-181	Baghouse
SEP-180/181	EU-181B	200 Leg	Corn	30,000 bu/hr	CE-181	Baghouse
SEP-180/181	EU-8	Corn Truck Receiving	Corn	45,000 bu/hr	CE-008	Baghouse
SEP-180/181	EU-8B	400 Leg	Corn	45,000 bu/hr	CE-008	Baghouse
SEP-180/181	EU-8C	Transfer Conveyor	Corn	25,000 bu/hr	CE-008	Baghouse
SEP-180/181	EU-10A	60% Gluten Meal Cooler #1	60% Gluten Meal	18,750 bu/hr	CE-010	Baghouse
SEP-180/181	EU-10B	60% Gluten Meal Cooler #2	60% Gluten Meal	18,750 bu/hr	CE-010	Baghouse
SEP-180/181	EU-22	Corn Cleaners System B	Corn	30,000 bu/hr	CE-180 CE-181	Baghouse
SEP-180/181	EU-22B	Cleaner Leg	Corn	33,300 bu/hr	CE-180 CE-181	Baghouse
SEP-180/181	EU-23	Cracked Corn Receiving	Cracked Corn	25,000 lb/hr	CE-023	Baghouse
SEP-180/181	EU-40	Germ to Storage Conveying	Germ	64,680 lb/hr	CE-040	Baghouse
SEP-180/181	EU-48	Gluten Meal Milling	60% Gluten Meal	45,000 lb/hr	CE-048	Baghouse
SEP-180/181	EU-49	Gluten Meal Storage	60% Gluten Meal	18,750 bu/hr	CE-049	Baghouse
SEP-180/181	EU-86A	Gluten Truck Loading	60% Gluten Meal	18,750 bu/hr	086	Baghouse
SEP-180/181	EU-86B	Gluten Rail Loading	60% Gluten Meal	200 ton/hr	086	Baghouse

Applicable Requirements

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

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

Table Elevator-8. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-180 SEP-181	EU-180 EU-181	Opacity	20%	LCPH ATI 6040 / PTO 6109 LCPH ATI 6041 / PTO 6110 LCO 10.7
			0%[1,2]	40 CFR §60.302(b)(2)
			5% (fugitive emission limit for truck unloading)[1,2]	LCPH ATI 6040 / PTO 6109 LCPH ATI 6041 / PTO 6110 40 CFR §60.302(c)(1)
			0% (fugitive emission limit for grain handling operations)[1,2]	LCPH ATI 6040 / PTO 6109 LCPH ATI 6041 / PTO 6110 40 CFR §60.302(c)(2)
		PM_{10}	1.03 lb/hr	LCPH ATI 6040 / PTO 6109 LCPH ATI 6041 / PTO 6110
			14.4[(3)] tpy	LCPH ATI 6040 / PTO 6109 LCPH ATI 6041 / PTO 6110
		PM	1.03 lb/hr 0.01 gr/dscf	LCPH ATI 6040 / PTO 6109 LCPH ATI 6041 / PTO 6110 40 CFR §302 (b)(1)

[1] An exceedance of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, Linn County may require additional proof to demonstrate compliance (e.g. stack testing).

[2] An exceedance of no visible emissions will require the owner/operator to promptly conduct an EPA Method 9 evaluation to determine compliance with the NSPS DD opacity limit.

[3] This emission limit is a PSD Synthetic minor limit that was established for this project which includes EP- 8, EP-180 and EP-181.

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 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 condition 14 [Operating Limits] shall be installed, maintained and operating during the operation of the emission unit and control equipment at all times.

Authority for Requirement: LCPH ATI 6040 / PTO 6109
LCPH ATI 6041 / PTO 6110

New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability:
In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCO 10.9(2) and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (national emission standards for hazardous air pollutants) shall be applicable as specified in LCO 10.9(3) and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (national emission standards for hazardous air pollutants for source categories) shall be applicable as specified in LCO 10.9(4) and 567 IAC 23.1(4).

A. This source is subject to Subpart A – General Provisions (40 CFR Section 60.1 through 40 CFR Section 60.19) of the New Source Performance Standards (NSPS) and Subpart DD – Standards of Performance for Grain Elevators (40 CFR Section 60.300 through 40 CFR Section 60.304) for the new belt conveyors only.

B. This source is not subject to a NESHAP at this time as there are no subparts for this source category.

Authority for Requirement: LCPH ATI 6040 / PTO 6109
LCPH ATI 6041 / PTO 6110

Operating Limits:

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

B. The differential pressure measured across each baghouse with the exception of EU-008 shall be greater than 0.2 inches of water column and less than 6 inches of water column. The differential pressure measured across EU-008 shall be greater than 1.0 inch of water column and less than 8.0 inches of water column.

C. Each baghouse shall be maintained according to the manufacturer's specifications and/or good operating practices.

D. The baseline actual emissions for the project are equal to 15.56 tons per year for PM_{10}. The baseline actual emissions shall remain unchanged throughout the five (5) year period following the issuance of this permit [LCPH Project #1682].

E. The owner or the operator shall determine the actual emissions for the project by summing the emissions from the following emission points each month: EP-8, EP-180 and EP-181.

F. Actual emissions minus the baseline actual emissions from the project shall not exceed the PSD significant levels: 14.4 tons per 12-month rolling period of PM_{10}. If the emission increases from the project do not exceed the PSD significance levels at any time from the resumption of regular operations to the end of the five (5) year review period, the 14.4 tons per year limit will no longer apply. If these limits are exceeded during the five (5) year review period, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7).

G. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of the project the owner or operator shall document:

1) A description of the project,

2) Identification of the emissions unit(s) whose emissions of a regulated NSR pollutant could be affected by the project, and

3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of "projected actual emissions" in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

H. Per 567 IAC 33.3(18)"f'(4), the owner or operator shall:

1) Monitor the emission of any regulated NSR pollutant that could increase as a result of the project that is emitted by any emissions unit identified in Condition 14.G.(2).

2) Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of five (5) years following resumption of regular operations and maintain a record of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity or potential to emit of that regulated NSR pollutant at such emissions unit (for the purposes of this requirements, "regular" shall be determined by the department on a case-by-case basis).

3) Maintain a written record containing the information required in this subparagraph.

I. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

Authority for Requirement: LCPH ATI 6040 / PTO 6109
LCPH ATI 6041 / PTO 6110

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

A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly conduct an EPA Method 9 evaluation to determine compliance with the NSPS DD opacity limit, investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. Record the weekly average facility grind rate.

C. Monitor and record the pressure differential across each baghouse on a weekly basis while the control equipment and emission units are in operation.

D. Monitor and record any maintenance and repair completed on the control device.

E. Record the monthly sum of the actual PM_{10} emissions from the following emission points: EP-008, EP-180 and EP-181.

F. Record monthly the 12-month rolling value of the actual emissions minus the baseline actual emissions from the following emission points: EP-008, EP-180 and EP-181. This written record shall be retained by the owner or operator for a period of ten years after the project is completed.

G. The facility is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish BAE that are unrelated to this project (i.e., increased utilization due to demand growth). The facility shall be required to include a justification for any emissions excluded due to demand growth.

H. Per 567 IAC 33.3(18)"f"(1), the owner or operator shall maintain a record of the information required in Condition 14.G.[Operating Limits] of this permit.

I. Per 567 IAC 33.3(18)"f"(4) and 567 IAC 33.3(18)"f"(5), the owner or operator shall maintain a record containing the information required in Condition 14.H.[Operating Limits] of this permit and that record shall be retained by the owner or operator for a period of ten (10) years after the project is completed.

Authority for Requirement: LCPH ATI 6040 / PTO 6109
LCPH ATI 6041 / PTO 6110

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Elevator-9.

EP	LCPH Permit Numbers (ATI/PTO)	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (acfm)
SEP-180	6040 / 6109	130	Vertical, unobstructed	43	85	35,000
SEP-181	6041 / 6110	130	Vertical, unobstructed	43	85	35,000

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

Monitoring Requirements

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

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 >0 % 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.

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** ☐
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☐ **No** ☒

[1] Facility O&M required for EP 181. EP 180 is not required to have an O&M plan or CAM.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-083

Process Area: MILL

Table Mill-1. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-083	EU-83A	Wet Corn Hopper	Corn	60,000 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-83B	First Grind Tank	Corn	55,000 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-83C	MR Steepwater Evaporators	Corn	120,000 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-375	Steep Tank 1E	Corn	156,392.7 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-376	Steep Tank 2E	Corn	156,392.7 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-377	Steep Tank 3E	Corn	156,392.7 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-378	Steep Tank 10E	Corn	156,392.7 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-379	Steep Tank 11E	Corn	156,392.7 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-380	Steep Tank 12E	Corn	156,392.7 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-381	Steep Tank 1F	Corn	156,392.7 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-382	Steep Tank 2F	Corn	156,392.7 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-383	Steep Tank 3F	Corn	156,392.7 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-384	Steep Tank 10F	Corn	156,392.7 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-385	Steep Tank 11F	Corn	156,392.7 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber
SEP-083	EU-386	Steep Tank 12F	Corn	156,392.7 gal/hr	CE-083A CE-083B	Wet Scrubber Caustic Scrubber

Applicable Requirements

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

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

Table Mill-2. Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-083	Opacity	20%	LCPH ATI 4828 / PTO 5712 LCO 10.7
	PM_{10}	0.20 lb/hr	LCPH ATI 4828 / PTO 5712
		0.01 gr/dscf	
	PM	0.20 lb/hr	LCPH ATI 4828 / PTO 5712
		0.01 gr/dscf	
		0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"
	SO_2	1.19 lb/hr	LCPH ATI 4828 / PTO 5712
		5.19 tpy	
		50 ppmv	
		500 ppmv	567 IAC 23.3(3)"e" LCO 10.12(2)
	VOC	0.32 lb/hr	LCPH ATI 4828 / PTO 5712
		1.42 tpy	
		20 ppm	

<u>Operational Limits & Requirements</u>

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

Control Device:

A MR pre-scrubber and MR scrubber shall be used to control VOC and SO_2 emissions. 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 condition 16 [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 4828 / PTO 5712

Operating Limits:

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

A. Maintain the MR pre-scrubber and MR scrubber according to the manufacturer's specifications and/or good operating practices.

B. Water flow shall be maintained at a minimum of 150 gpm to the MR pre-scrubber (1st pass).

C. Recycle water flow shall be maintained at a minimum of 400 gpm in the MR scrubber (2nd pass).

D. Fresh makeup water flow to the MR scrubber shall be maintained at a minimum of 34 gpm.

Authority for Requirement: LCPH ATI 4828 / PTO 5712

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Monitor and record the water flow to the MR pre-scrubber on a daily basis.

B. Monitor and record the recycle water flow to the MR scrubber on a daily basis.

C. Monitor and record the fresh makeup water flow to the MR scrubber on a daily basis.

D. Record all maintenance and repair completed on the control devices.

Authority for Requirement: LCPH ATI 4828 / PTO 5712

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Mill-3.

EP	LCPH Permit Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (acfm)
SEP-083	ATI 4828/ PTO 5712	91	Vertical, unobstructed	18	137	2388

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

Authority for Requirement: LCPH ATI 4828 / PTO 5712

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

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-201

Process Area: MILL

Table Mill-4. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-201	EU-201A	Heavy Gluten Storage Tank	Corn Gluten	24,000 gal/hr	-	-
	EU-201B	Mill Water Storage Tank	Mill Water	24,000 gal/hr	-	-
	EU-201C	Light Steep Water Storage Tanks	Light Steep Water	96,000 gal/hr	-	-

Applicable Requirements

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

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

Table Mill-5. Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-201	SO_2	1.35 lb/hr	LCPH ATI 4829 / PTO 6111
		500 ppmv	LCPH ATI 4829 / PTO 6111 LCO 10.12(2)
	VOC	2.63 lb/hr	LCPH ATI 4829 / PTO 6111

Operational Limits & Requirements

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

There are no operating limits or recordkeeping required at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Mill-6.

EP	LCPH Permit Numbers ATI/ PTO	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (acfm)
SEP-201	4829 / 6111	98	Vertical, unobstructed	16	125	300

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

Authority for Requirement: LCPH ATI 4829 / PTO 6111

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-204, SEP-205, SEP-206

Process Area: MILL

Table Mill-7. Emission Unit Description.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-204	EU-204	Biomass Storage Tank	Biomass	118,332 gallons	-	-
SEP-205	EU-205	Heavy Steepwater Tank	Heavy Steepwater	118,332 gallons	-	-
SEP-206	EU-206	Intermediate Steepwater Storage Tank	Steepwater	118,332 gallons	-	-

Applicable Requirements

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

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

Table Mill-8. Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-204	SO_2	500 ppmv	ATI 4830 / PTO 6150 567 IAC 23.3(3)"e" LCO 10.12(2)
	VOC	0.03 lb/hr	ATI 4830 / PTO 6150
SEP-205	SO_2	500 ppmv	ATI 4831 / PTO 6151 567 IAC 23.3(3)"e" LCO 10.12(2)
	VOC	0.19 lb/hr	ATI 4831 / PTO 6151
SEP-206	SO_2	500 ppmv	ATI 4832 / PTO 6152 567 IAC 23.3(3)"e" LCO 10.12(2)
	VOC	0.19 lb/hr	ATI 4830 / PTO 6152

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Mill-9.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (acfm)**
SEP-204	4830 / 6150	96	Vertical, unobstructed	18	154	114
SEP-205	4831 / 6151	96	Vertical, unobstructed	18	134	43
SEP-206	4832 / 6152	81	Vertical, unobstructed	16	134	43

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

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-210

Process Area: MILL

Table Mill-10. Emission Unit Description.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-210	EU-046	Sulfur Burning System	Molten Slurry	10 tons/day	CE-210A	Packed Bed Scrubber
SEP-210	EU-210	Millhouse SO_2 Scrubber	Corn Slurry	18,750 bu/hr	CE-210A	Packed Bed Scrubber

Applicable Requirements

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

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

Table Mill-11. Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-210	Opacity	20%	ATI 5829 / PTO 6337
	SO_2	6.11 lb/hr	ATI 5829 / PTO 6337
		500 ppm	567 IAC 23.3(3)"e" LCO 10.12(2)
	VOC	2.54 lb/hr	ATI 5829 / PTO 6337

Operational Limits & Requirements

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

Control Device:

A wet scrubber shall be installed to control VOC emissions. 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 condition 14 [Operating Limits] shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Operating Limits:

Operating limits for this emission unit shall be:

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

B. The sulfur burner shall be limited to a maximum process rate of 10 tons of sulfur per day.

C. Minimum fresh water flow rate through the packed tower scrubber shall be 240 gallons per minute.

D. The pressure drop across the packed tower scrubber, CE-210A, shall be maintained between 0.5 and 12 inches of water.

E. Minimum water flow rate through the primary absorption tower shall be 300 gallons per minute.

F. Maintain the scrubber and absorption tower according to the manufacturer's specifications and/or good operating practices.

Authority for Requirement: LCPH ATI 5829 / PTO 6337

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

A. Calculate and record the weekly facility grind rate average based on a 52-week rolling average.

B. Pressure drop readings across the packed tower scrubber, CE-210A, shall be recorded on a daily basis while the control equipment is in operation.

C. Monitor and record daily fresh water flow rate for packed tower scrubber.

D. Monitor and record daily process rate for sulfur burner.

E. Monitor and record daily water flow rate for the absorption tower.

F. Record all maintenance and repair completed on the packed tower scrubber and the absorption tower.

Note: An audible low water flow alarm system for the packed bed scrubber and the absorption tower units can be operated in lieu of daily recording of the water flow rates. However, the individual low water flow alarms must be recorded to demonstrate compliance with the absorption tower's 300 gallon per minute and the packed bed scrubber's 240 gallons per minute operating limit.

Authority for Requirement: LCPH ATI 5829 / PTO 6337

<u>Emission Point Characteristics</u>
The emission point shall conform to the specifications listed below.

Table Mill-12.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (acfm)**
SEP-210	5829 / 6337	45	Vertical, unobstructed	30	72	13,913

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

Monitoring Requirements

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

Stack Testing:

The following stack tests shall be performed:

Pollutant – Sulfur Dioxide (SO_2)
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 6C (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108

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)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

Emission Point ID Number: SEP 307 - 374

Process Area: MILL

Table Mill-13. Emission Unit Description.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
SEP-307	EU-307	Steep Tank 1A	Corn and Steep Water	71,680 gal/hr
SEP-308	EU-308	Steep Tank 2A	Corn and Steep Water	71,680 gal/hr
SEP-309	EU-309	Steep Tank 3A	Corn and Steep Water	71,680 gal/hr
SEP-310	EU-310	Steep Tank 4A	Corn and Steep Water	71,680 gal/hr
SEP-311	EU-311	Steep Tank 5A	Corn and Steep Water	71,680 gal/hr
SEP-312	EU-312	Steep Tank 6A	Corn and Steep Water	71,680 gal/hr
SEP-313	EU-313	Steep Tank 7A	Corn and Steep Water	71,680 gal/hr
SEP-314	EU-314	Steep Tank 8A	Corn and Steep Water	71,680 gal/hr
SEP-315	EU-315	Steep Tank 9A	Corn and Steep Water	71,680 gal/hr
SEP-316	EU-316	Steep Tank 10A	Corn and Steep Water	71,680 gal/hr
SEP-317	EU-317	Steep Tank 11A	Corn and Steep Water	71,680 gal/hr
SEP-318	EU-318	Steep Tank 12A	Corn and Steep Water	71,680 gal/hr
SEP-319	EU-319	Steep Tank 13A	Corn and Steep Water	71,680 gal/hr
SEP-320	EU-320	Steep Tank 14A	Corn and Steep Water	71,680 gal/hr
SEP-321	EU-321	Steep Tank 15A	Corn and Steep Water	71,680 gal/hr
SEP-322	EU-322	Steep Tank 16A	Corn and Steep Water	71,680 gal/hr
SEP-323	EU-323	Steep Tank 17A	Corn and Steep Water	71,680 gal/hr
SEP-324	EU-324	Steep Tank 18A	Corn and Steep Water	71,680 gal/hr
SEP-325	EU-325	Steep Tank 1B	Corn and Steep Water	71,680 gal/hr
SEP-326	EU-326	Steep Tank 2B	Corn and Steep Water	71,680 gal/hr
SEP-327	EU-327	Steep Tank 3B	Corn and Steep Water	71,680 gal/hr
SEP-328	EU-328	Steep Tank 4B	Corn and Steep Water	71,680 gal/hr
SEP-329	EU-329	Steep Tank 5B	Corn and Steep Water	71,680 gal/hr
SEP-330	EU-330	Steep Tank 6B	Corn and Steep Water	71,680 gal/hr
SEP-331	EU-331	Steep Tank 7B	Corn and Steep Water	71,680 gal/hr
SEP-332	EU-332	Steep Tank 8B	Corn and Steep Water	71,680 gal/hr
SEP-333	EU-333	Steep Tank 9B	Corn and Steep Water	71,680 gal/hr
SEP-334	EU-334	Steep Tank 10B	Corn and Steep Water	71,680 gal/hr
SEP-335	EU-335	Steep Tank 11B	Corn and Steep Water	71,680 gal/hr
SEP-336	EU-336	Steep Tank 12B	Corn and Steep Water	71,680 gal/hr
SEP-337	EU-337	Steep Tank 13B	Corn and Steep Water	71,680 gal/hr
SEP-338	EU-338	Steep Tank 14B	Corn and Steep Water	71,680 gal/hr

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
SEP-339	EU-339	Steep Tank 15B	Corn and Steep Water	71,680 gal/hr
SEP-340	EU-340	Steep Tank 16B	Corn and Steep Water	71,680 gal/hr
SEP-341	EU-341	Steep Tank 17B	Corn and Steep Water	71,680 gal/hr
SEP-342	EU-342	Steep Tank 18B	Corn and Steep Water	71,680 gal/hr
SEP-343	EU-343	Steep Tank 1C	Corn and Steep Water	71,680 gal/hr
SEP-344	EU-344	Steep Tank 2C	Corn and Steep Water	52,131 gal/hr
SEP-345	EU-345	Steep Tank 3C	Corn and Steep Water	52,131 gal/hr
SEP-346	EU-346	Steep Tank 4C	Corn and Steep Water	52,131 gal/hr
SEP-347	EU-347	Steep Tank 5C	Corn and Steep Water	52,131 gal/hr
SEP-348	EU-348	Steep Tank 6C	Corn and Steep Water	52,131 gal/hr
SEP-349	EU-349	Steep Tank 7C	Corn and Steep Water	52,131 gal/hr
SEP-350	EU-350	Steep Tank 8C	Corn and Steep Water	52,131 gal/hr
SEP-351	EU-351	Steep Tank 9C	Corn and Steep Water	52,131 gal/hr
SEP-352	EU-352	Steep Tank 10C	Corn and Steep Water	52,131 gal/hr
SEP-353	EU-353	Steep Tank 11C	Corn and Steep Water	52,131 gal/hr
SEP-354	EU-354	Steep Tank 12C	Corn and Steep Water	52,131 gal/hr
SEP-355	EU-355	Steep Tank 13C	Corn and Steep Water	52,131 gal/hr
SEP-356	EU-356	Steep Tank 14C	Corn and Steep Water	52,131 gal/hr
SEP-357	EU-357	Steep Tank 15C	Corn and Steep Water	52,131 gal/hr
SEP-358	EU-358	Steep Tank 16C	Corn and Steep Water	52,131 gal/hr
SEP-359	EU-359	Steep Tank 17C	Corn and Steep Water	52,131 gal/hr
SEP-360	EU-360	Steep Tank 18C	Corn and Steep Water	52,131 gal/hr
SEP-361	EU-361	Steep Tank 1D	Corn and Steep Water	71,680 gal/hr
SEP-362	EU-362	Steep Tank 2D	Corn and Steep Water	71,680 gal/hr
SEP-363	EU-363	Steep Tank 3D	Corn and Steep Water	71,680 gal/hr
SEP-364	EU-364	Steep Tank 4D	Corn and Steep Water	71,680 gal/hr
SEP-365	EU-365	Steep Tank 5D	Corn and Steep Water	71,680 gal/hr
SEP-366	EU-366	Steep Tank 6D	Corn and Steep Water	71,680 gal/hr
SEP-367	EU-367	Steep Tank 7D	Corn and Steep Water	71,680 gal/hr
SEP-368	EU-368	Steep Tank 8D	Corn and Steep Water	71,680 gal/hr
SEP-369	EU-369	Steep Tank 9D	Corn and Steep Water	71,680 gal/hr
SEP-370	EU-370	Steep Tank 10D	Corn and Steep Water	71,680 gal/hr
SEP-371	EU-371	Steep Tank 11D	Corn and Steep Water	71,680 gal/hr
SEP-372	EU-372	Steep Tank 12D	Corn and Steep Water	71,680 gal/hr
SEP-373	EU-373	Steep Tank 13D	Corn and Steep Water	71,680 gal/hr

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
SEP-374	EU-374	Steep Tank 14D	Corn and Steep Water	71,680 gal/hr

Applicable Requirements

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

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

Table Mill-14. Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-307	SO_2	0.26 lb/hr 500 ppmv	ATI 5575 / PTO 5812 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5575 / PTO 5812
SEP-308	SO_2	0.26 lb/hr 500 ppmv	ATI 5576 / PTO 5813 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5576 / PTO 5813
SEP-309	SO_2	0.26 lb/hr 500 ppmv	ATI 5577 / PTO 5814 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5577 / PTO 5814
SEP-310	SO_2	0.26 lb/hr 500 ppmv	ATI 5578 / PTO 5815 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5578 / PTO 5815
SEP-311	SO_2	0.26 lb/hr 500 ppmv	ATI 5579 / PTO 5816 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5579 / PTO 5816
SEP-312	SO_2	0.26 lb/hr 500 ppmv	ATI 5580 / PTO 5817 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5580 / PTO 5817
SEP-313	SO_2	0.26 lb/hr 500 ppmv	ATI 5581 / PTO 5818 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5581 / PTO 5818
SEP-314	SO_2	0.26 lb/hr 500 ppmv	ATI 5582 / PTO 5819 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5582 / PTO 5819
SEP-315	SO_2	0.26 lb/hr 500 ppmv	ATI 5583 / PTO 5820 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5583 / PTO 5820
SEP-316	SO_2	0.26 lb/hr 500 ppmv	ATI 5584 / PTO 5821 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5584 / PTO 5821
SEP-317	SO_2	0.26 lb/hr 500 ppmv	ATI 5585 / PTO 5822 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5585 / PTO 5822

EP	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-318	SO_2	0.26 lb/hr 500 ppmv	ATI 5586 / PTO 5823 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5586 / PTO 5823
SEP-319	SO_2	0.26 lb/hr 500 ppmv	ATI 5587 / PTO 5824 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5587 / PTO 5824
SEP-320	SO_2	0.26 lb/hr 500 ppmv	ATI 5588 / PTO 5825 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5588 / PTO 5825
SEP-321	SO_2	0.26 lb/hr 500 ppmv	ATI 5589 / PTO 5826 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5589 / PTO 5826
SEP-322	SO_2	0.26 lb/hr 500 ppmv	ATI 5590 / PTO 5827 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5590 / PTO 5827
SEP-323	SO_2	0.26 lb/hr 500 ppmv	ATI 5591 / PTO 5828 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5591 / PTO 5828
SEP-324	SO_2	0.26 lb/hr 500 ppmv	ATI 5592 / PTO 5829 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5592 / PTO 5829
SEP-325	SO_2	0.26 lb/hr 500 ppmv	ATI 5593 / PTO 5830 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5593 / PTO 5830
SEP-326	SO_2	0.26 lb/hr 500 ppmv	ATI 5594 / PTO 5831 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5594 / PTO 5831
SEP-327	SO_2	0.26 lb/hr 500 ppmv	ATI 5595 / PTO 5832 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5595 / PTO 5832
SEP-328	SO_2	0.26 lb/hr 500 ppmv	ATI 5596 / PTO 5833 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5596 / PTO 5833
SEP-329	SO_2	0.26 lb/hr 500 ppmv	ATI 5597 / PTO 5834 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5597 / PTO 5834
SEP-330	SO_2	0.26 lb/hr 500 ppmv	ATI 5598 / PTO 5835 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5598 / PTO 5835
SEP-331	SO_2	0.26 lb/hr 500 ppmv	ATI 5599 / PTO 5836 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5599 / PTO 5836
SEP-332	SO_2	0.26 lb/hr 500 ppmv	ATI 5600 / PTO 5837 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5600 / PTO 5837

EP	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-333	SO_2	0.26 lb/hr 500 ppmv	ATI 5601 / PTO 5838 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5601 / PTO 5838
SEP-334	SO_2	0.26 lb/hr 500 ppmv	ATI 5602 / PTO 5839 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5602 / PTO 5839
SEP-335	SO_2	0.26 lb/hr 500 ppmv	ATI 5603 / PTO 5840 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5603 / PTO 5840
SEP-336	SO_2	0.26 lb/hr 500 ppmv	ATI 5604 / PTO 5841 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5604 / PTO 5841
SEP-337	SO_2	0.26 lb/hr 500 ppmv	ATI 5605 / PTO 5842 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5605 / PTO 5842
SEP-338	SO_2	0.26 lb/hr 500 ppmv	ATI 5606 / PTO 5843 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5606 / PTO 5843
SEP-339	SO_2	0.26 lb/hr 500 ppmv	ATI 5607 / PTO 5844 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5607 / PTO 5844
SEP-340	SO_2	0.26 lb/hr 500 ppmv	ATI 5608 / PTO 5845 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5608 / PTO 5845
SEP-341	SO_2	0.26 lb/hr 500 ppmv	ATI 5609 / PTO 5846 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5609 / PTO 5846
SEP-342	SO_2	0.26 lb/hr 500 ppmv	ATI 5610 / PTO 5847 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5610 / PTO 5847
SEP-343	SO_2	0.26 lb/hr 500 ppmv	ATI 5611 / PTO 5848 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5611 / PTO 5848
SEP-344	SO_2	0.26 lb/hr 500 ppmv	ATI 5612 / PTO 5849 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5612 / PTO 5849
SEP-345	SO_2	0.26 lb/hr 500 ppmv	ATI 5613 / PTO 5850 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5613 / PTO 5850
SEP-346	SO_2	0.26 lb/hr 500 ppmv	ATI 5614 / PTO 5851 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5614 / PTO 5851
SEP-347	SO_2	0.26 lb/hr 500 ppmv	ATI 5615 / PTO 5852 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5615 / PTO 5852

EP	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-348	SO_2	0.26 lb/hr 500 ppmv	ATI 5616 / PTO 5853 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5616 / PTO 5853
SEP-349	SO_2	0.26 lb/hr 500 ppmv	ATI 5617 / PTO 5854 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5617 / PTO 5854
SEP-350	SO_2	0.26 lb/hr 500 ppmv	ATI 5618 / PTO 5855 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5618 / PTO 5855
SEP-351	SO_2	0.26 lb/hr 500 ppmv	ATI 5619 / PTO 5856 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5619 / PTO 5856
SEP-352	SO_2	0.26 lb/hr 500 ppmv	ATI 5620 / PTO 5857 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5620 / PTO 5857
SEP-353	SO_2	0.26 lb/hr 500 ppmv	ATI 5621 / PTO 5858 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5621 / PTO 5858
SEP-354	SO_2	0.26 lb/hr 500 ppmv	ATI 5622 / PTO 5859 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5622 / PTO 5859
SEP-355	SO_2	0.26 lb/hr 500 ppmv	ATI 5623 / PTO 5860 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5623 / PTO 5860
SEP-356	SO_2	0.26 lb/hr 500 ppmv	ATI 5624 / PTO 5861 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5624 / PTO 5861
SEP-357	SO_2	0.26 lb/hr 500 ppmv	ATI 5625 / PTO 5862 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5625 / PTO 5862
SEP-358	SO_2	0.26 lb/hr 500 ppmv	ATI 5626 / PTO 5863 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5626 / PTO 5863
SEP-359	SO_2	0.26 lb/hr 500 ppmv	ATI 5627 / PTO 5864 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5627 / PTO 5864
SEP-360	SO_2	0.26 lb/hr 500 ppmv	ATI 5628 / PTO 5865 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5628 / PTO 5865
SEP-361	SO_2	0.26 lb/hr 500 ppmv	ATI 5629 / PTO 5866 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5629 / PTO 5866
SEP-362	SO_2	0.26 lb/hr 500 ppmv	ATI 5630 / PTO 5867 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5630 / PTO 5867

EP	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-363	SO_2	0.26 lb/hr 500 ppmv	ATI 5631 / PTO 5868 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5631 / PTO 5868
SEP-364	SO_2	0.26 lb/hr 500 ppmv	ATI 5632 / PTO 5869 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5632 / PTO 5869
SEP-365	SO_2	0.26 lb/hr 500 ppmv	ATI 5633 / PTO 5870 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5633 / PTO 5870
SEP-366	SO_2	0.26 lb/hr 500 ppmv	ATI 5634 / PTO 5871 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5634 / PTO 5871
SEP-367	SO_2	0.26 lb/hr 500 ppmv	ATI 5635 / PTO 5872 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5635 / PTO 5872
SEP-368	SO_2	0.26 lb/hr 500 ppmv	ATI 5636 / PTO 5873 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5636 / PTO 5873
SEP-369	SO_2	0.26 lb/hr 500 ppmv	ATI 5637 / PTO 5874 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5637 / PTO 5874
SEP-370	SO_2	0.26 lb/hr 500 ppmv	ATI 5638 / PTO 5875 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5638 / PTO 5875
SEP-371	SO_2	0.26 lb/hr 500 ppmv	ATI 5639 / PTO 5876 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5639 / PTO 5876
SEP-372	SO_2	0.26 lb/hr 500 ppmv	ATI 5640 / PTO 5877 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5640 / PTO 5877
SEP-373	SO_2	0.26 lb/hr 500 ppmv	ATI 5641 / PTO 5878 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5641 / PTO 5878
SEP-374	SO_2	0.26 lb/hr 500 ppmv	ATI 5642 / PTO 5879 LCO 10.12(2)
	VOC	0.66 lb/hr	ATI 5642 / PTO 5879

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Mill-15.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (acfm)
SEP-307 - 343	ATI 5575-5611 / PTO 5812-5848	56	Vertical	20 x 20	125	54
SEP-344 -351	ATI 5612–5619 / PTO 5849-5856	52	Vertical	14 x 18	125	54
SEP-352	ATI 5620 / PTO 5857	56	Vertical	20 x 20	125	54
SEP-353 – 360	ATI 5621-5628 / PTO 5865-5865	52	Vertical	14 x 18	125	54
SEP-361 – 374	ATI 5629-5642 / PTO 5866-5879	56	Vertical	20 x 20	125	54

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

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-011, SEP-018
Process Area: 60% GLUTEN MEAL

Table Gluten Meal-1. Emission Unit Description

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-011	EU-11A	Gluten Meal Dryer #1 Bypass	Gluten Meal	7.7 ton/hr	CE-011	Multivane Scrubber
SEP-011	EU-11B	Gluten Meal Dryer #1 Bypass – Natural Gas	Natural Gas	0.08 MMCF/ hr	CE-011	Multivane Scrubber
SEP-018	EU-18A	Gluten Meal Dryer #2 Bypass	Gluten Meal	15.1 ton/hr	CE-018	Multivane Scrubber
SEP-018	EU-18B	Gluten Meal Dryer #2 Bypass – Natural Gas	Natural Gas	0.13 MMCF/ hr	CE-018	Multivane Scrubber

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

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

Control Device:
A multivane scrubber shall be used to control particulate matter emissions. 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 condition 16 [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 5346 / PTO 5220
LCPH ATI 5347 / PTO 5221

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. This source shall only exhaust air from the dryer chambers prior to the dryer igniters being activated.

B. No combustion gases and no feed shall be added to the dryer while the dryer exhaust is venting through the bypass.

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

Authority for Requirement: LCPH ATI 5346 / PTO 5220
LCPH ATI 5347 / PTO 5221

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. The following items shall be recorded:

A. Record the date and duration of each purge exhausted through the bypass stack.

B. All maintenance and repair completed on the control device.

Authority for Requirement: LCPH ATI 5346 / PTO 5220
LCPH ATI 5347 / PTO 5221

<u>Emission Point Characteristics</u>
The emission point shall conform to the specifications listed below.

Table Gluten Meal-2.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (acfm)**
SEP-011	5346 / 5220	48	Vertical , unobstructed	24	70	51,200
SEP-018	5347 / 5221	49	Vertical, unobstructed	24	70	51,200

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

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-013, SEP-050, SEP-051

Process Area: 60% GLUTEN MEAL

Table Gluten Meal-3. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-013	EU-13	60% Gluten Meal Recycle #3	Gluten Meal	3.5 ton/hr	CE-013	Baghouse
SEP-050	EU-50	60% Gluten Meal Recycle #2	Gluten Meal	3.5 ton/hr	CE-050	Baghouse
SEP-051	EU-51	60% Gluten Meal Recycle #1	Gluten Meal	3.5 ton/hr	CE-051	Baghouse

Applicable Requirements

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

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

Table Gluten Meal-4. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-013	EU-13	Opacity	20%	ATI 5808 / PTO 5768 LCO 10.7
		PM_{10}	0.11 lb/hr	ATI 5808 / PTO 5768
		PM	0.11 lb/hr	ATI 5808 / PTO 5768
			0.1 gr/scf	ATI 5808 / PTO 5768 567 IAC 23.4(7) LCO 10.9(1)"g"
SEP-050	EU-50	Opacity	20%	ATI 5809 / PTO 5769 LCO 10.7
		PM_{10}	0.07 lb/hr	ATI 5809 / PTO 5769
		PM	0.07 lb/hr	ATI 5809 / PTO 5769
			0.1 gr/scf	ATI 5809 / PTO 5769 567 IAC 23.4(7) LCO 10.9(1)"g"
		VOC	0.16 lb/hr	ATI 5809 / PTO 5769
SEP-051	EU-51	Opacity	20%	ATI 4826 / PTO 5331 LCO 10.7
		PM10	0.1 lb/hr	ATI 4826 / PTO 5331
		PM	0.1 lb/hr	ATI 4826 / PTO 5331
			0.1 gr/dscf	ATI 4826 / PTO 5331 567 IAC 23.4(7) LCO 10.9(1)"g"
		VOC	0.31 lb/hr	ATI 4826 / PTO 5331

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 used to control particulate matter emissions. 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 5808 / PTO 5768
LCPH ATI 5809 / PTO 5769
LCPH ATI 4826 / PTO 5331

Operating Limits:

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

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

Authority for Requirement: LCPH ATI 5809 / PTO 5769
LCPH ATI 4826 / PTO 5331

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

B. The pressure differential measured across the baghouse shall be greater than one-half (0.5) inch of water column and less than six (6) inches of water column.

Authority for Requirement: LCPH ATI 5808 / PTO 5768
LCPH ATI 5809 / PTO 5769
LCPH ATI 4826 / PTO 5331

Operating Condition Monitoring and Recordkeeping:

If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Monitor and record the pressure differential across the baghouse on a weekly basis.

B. Monitor and record “no visible emissions” observations on a weekly basis and any action resulting from the observation.

C. Record all maintenance and repair completed on the control device.

Authority for Requirement: LCPH ATI 5808 / PTO 5768
LCPH ATI 5809 / PTO 5769
LCPH ATI 4826 / PTO 5331

Record the weekly average facility grind rate.

Authority for Requirement: LCPH ATI 5809 / PTO 5769
LCPH ATI 4826 / PTO 5331

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Gluten Meal-5.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (acfm)**
SEP-013	5808 / 5768	16	Vertical, unobstructed	8	190	2,486
SEP-050	5809 / 5769	16	Vertical, unobstructed	8	190	1,466
SEP-051	4826 / 53310	55	Vertical, unobstructed	8	143	2,486

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

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

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

[1] Required for EP 013 only, EP 050 and 051 do not require an O&M plan.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-190, SEP- 191, SEP-192

Process Area: 60% GLUTEN MEAL

Table Gluten Meal-6. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-190	EU-190	RTO #1	Gluten Meal		CE-190	RTO #1
SEP-190	EU-190	RTO #1 – Natural Gas	Natural Gas	0.011 MMCF/hr	CE-190	RTO #1
SEP-191	EU-191A	RTO #2	Gluten Meal		CE-191A	RTO #2
SEP-191	EU-191A	RTO #2 – Natural Gas	Natural Gas	0.011 MMCF/hr	CE-191A	RTO #2
SEP-191	EU-191B	RTO #3	Gluten Meal		CE-191B	RTO #3
SEP-191	EU-191B	RTO #3 – Natural Gas	Natural Gas	0.011 MMCF/hr	CE-191B	RTO #3
SEP-192	EU-192A	RTO #4	Gluten Meal		CE-192A	RTO #4
SEP-192	EU-192A	RTO #4 – Natural Gas	Natural Gas	0.011 MMCF/hr	CE-192A	RTO #4
SEP-192	EU-192B	RTO #5	Gluten Meal		CE-192B	RTO #5
SEP-192	EU-192B	RTO #5 – Natural Gas	Natural Gas	0.011 MMCF/hr	CE-192B	RTO #5
SEP-190, SEP-191, SEP-192	EU-11A	Gluten Meal Dryer #1	Gluten Meal	7.7 ton/hr	CE-011, CE-025	Multivane Scrubber, Entoleter Scrubber
SEP-190, SEP-191, SEP-192	EU-11B	Gluten Meal Dryer #1 – Natural Gas	Natural Gas	0.08 MMCF/hr	CE-011, CE-025	Multivane Scrubber, Entoleter Scrubber
SEP-190, SEP-191, SEP-192	EU-18A	Gluten Meal Dryer #2	Gluten Meal	15.1 ton/hr	CE-018, CE-005B	Multivane Scrubber, #2 Packed Tower Scrubber
SEP-190, SEP-191, SEP-192	EU-18B	Gluten Meal Dryer #2 – Natural Gas	Natural Gas	0.13 MMCF/hr	CE-018, CE-005B	Multivane Scrubber, #2 Packed Tower Scrubber
SEP-190, SEP-191, SEP-192	EU-19A	Gluten Feed Dryer #1	Gluten Meal	15.75 ton/hr	CE-019, CE-025	Multivane Scrubber, Entoleter Scrubber

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-190, SEP-191, SEP-192	EU-19B	Gluten Feed Dryer #1 – Natural Gas	Natural Gas	0.08 MMCF/hr	CE-019, CE-025	Multivane Scrubber, Entoleter Scrubber
SEP-190, SEP-191, SEP-192	EU-30A	Gluten Feed Dryer #2	Gluten Meal	15.75 ton/hr	CE-030, CE-025	Multivane Scrubber, Entoleter Scrubber
SEP-190, SEP-191, SEP-192	EU-30B	Gluten Feed Dryer #2 – Natural Gas	Natural Gas	0.08 MMCF/hr	CE-030, CE-025	Multivane Scrubber, Entoleter Scrubber
SEP-190, SEP-191, SEP-192	EU-43A	Fiber Feed Dryer #3	Fiber Feed	20 ton/hr	CE-043, CE-005B	Ducon Scrubber, #2 Packed Tower Scrubber
SEP-190, SEP-191, SEP-192	EU-43B	Fiber Feed Dryer #3 – Natural Gas	Natural Gas	0.08 MMCF/hr	CE-043, CE-005B	Ducon Scrubber, #2 Packed Tower Scrubber
SEP-190, SEP-191, SEP-192	EU-005CA (G54A)	Fiber Feed Dryer #4	Fiber Feed	45 ton/hr	CE-005A, CE-005C	#1 Packed Tower Scrubber, Ducon Scrubber
SEP-190, SEP-191, SEP-192	EU-005CB (G54B)	Fiber Feed Dryer #4 – Natural Gas	Natural Gas	0.19 MMCF/hr	CE-005A, CE-005C	#1 Packed Tower Scrubber, Ducon Scrubber
SEP-190, SEP-191, SEP-192	EU-005DA (G55A)	Fiber Feed Dryer #5	Fiber Feed	45 ton/hr	CE-005A, CE-005D	#1 Packed Tower Scrubber, Ducon Scrubber
SEP-190, SEP-191, SEP-192	EU-005DB (G55B)	Fiber Feed Dryer #5 – Natural Gas	Natural Gas	0.19 MMCF/hr	CE-005A, CE-005D	#1 Packed Tower Scrubber, Ducon Scrubber

Applicable Requirements

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

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

Table Gluten Meal-7. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-190	EU-190	Opacity	No Visible Emissions[2]	ATI 4900 / PTO 5783 LCO 10.5(3)“b”
		PM_{10}[4]	3.00 lb/hr[1]	ATI 4900 / PTO 5783
		PM[4]	3.00 lb/hr	ATI 4900 / PTO 5783
			0.1 gr/scf	ATI 4900 / PTO 5783 567 IAC 23.4(7) LCO 10.9(1)"g"
		SO_2	7.30 lb/hr[1]	ATI 4900 / PTO 5783
		NO_x	13.78 lb/hr[1,3]	ATI 4900 / PTO 5783
			27.55 lb/hr[1,3]	ATI 4900 / PTO 5783
		VOC[4]	≤ 10 ppm (as propane)	ATI 4900 / PTO 5783
		CO[4]	≤ 100 ppm	ATI 4900 / PTO 5783
SEP-191 SEP-192	EU-191 EU-192	Opacity	No Visible Emissions[2]	ATI 4901 / PTO 5784 ATI 4902 / PTO 5785 LCO 10.5(3)“b”
		PM_{10}[4]	6.01 lb/hr[1]	ATI 4901 / PTO 5784 ATI 4902 / PTO 5785
		PM[4]	6.01 lb/hr[1]	ATI 4901 / PTO 5784 ATI 4902 / PTO 5785
			0.1 gr/scf	ATI 4901 / PTO 5784 ATI 4902 / PTO 5785
		SO_2	14.61 lb/hr[1]	ATI 4901 / PTO 5784 ATI 4902 / PTO 5785
		NO_x	27.55 lb/hr[1,3]	ATI 4901 / PTO 5784 ATI 4902 / PTO 5785
		VOC[4]	≤ 10 ppm (as propane)	ATI 4901 / PTO 5784 ATI 4902 / PTO 5785
		CO[4]	≤ 100 ppm	ATI 4901 / PTO 5784 ATI 4902 / PTO 5785

[1] Emission rate used to demonstrate no exceedance of the National Ambient Air Quality Standards (NAAQS).

[2] Visible emissions shall be observed on a weekly basis to ensure none occur when the emission unit on this emission point is at or near full capacity. If visible emissions are 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 visible emissions 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. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

[3] EP190 shall not exceed 13.78 lb/hr when RTO #1 is the only unit operating. The combined limit for all three EPs (190, 191 and 192) is 27.55 lb/hr.

[4] All emission limitations (including operating parameter ranges and limits) apply at all times when the process equipment is operating, except, in the case of process equipment or pollution control systems, during previously planned startup and shutdown periods (including planned maintenance periods), and malfunctions as defined in 40 CFR Part 63. These startup and shutdown periods shall not exceed the minimum amount of time necessary for these events, and during these events, ADM shall minimize emissions to the extent practicable. To the extent practicable, startup and shutdown of pollution control systems will be performed during times when process equipment is also shut down. Also, ADM shall, to the extent practicable, control emissions during a malfunction event in a manner consistent with good air pollution control practice for minimizing emissions. In addition, for dryers controlled by RTOs not designed for on-line regeneration (i.e., bake-out) and that are not preceded by a WESP or equivalent device(s), the emission limitations do not apply to periods of off-line RTO regeneration not to exceed 50 dryer operating hours per calendar year and individual off-line RTO regeneration periods not to exceed 12 dryer operating hours. For RTOs servicing more than one dryer, a dryer operating hour is any hour in which one or more of the dryers is on-line. Off-line RTO regeneration while all associated dryers are shut down is not included in these operating limitations. Also, off-line RTO regeneration 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., ADM may perform "preventative" off-line RTO regenerations during periods when the RTO is off-line for other reasons such as when the RTO is off-line due to maintenance or malfunction of upstream PM control equipment which requires bypass of the RTO).

Operational Limits & Requirements

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

Control Device:

The control devices listed below shall be installed to control emissions. All control equipment shall be maintained properly and operated at all times the air pollution source is in operation unless specified otherwise in this permit. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 16 shall be installed, maintained and operating during the operation of the emission unit and control device at all times. The wet electrostatic precipitators #1 (CE-190B), #2 (CE-191C) and #3 (CE-191D), #4 (CE-192C) and #5 (CE-192D) are installed to extend the life of the RTOs and are not required to operate as a condition of this permit.

Table Gluten Meal-8.

Emission Unit	CE	CE Description
011A, 011B, 018A, 018B, 019A, 019B, 030A, 030B, 043A, 043B, 005CA, 005CB, 005DA, 005DB, 190, 191A, 191B, 192A, 192B	CE-190, CE-191A, CE-191B, CE-192A, CE-192B	#1 RTO, #2 RTO, #3 RTO, #4 RTO, #5 RTO
005A, 005CA, 005CB, 005DA, 005DB	CE-005A	#1 Packed Tower Scrubber
018, 043	CE-005B	#2 Packed Tower Scrubber
005CA, 005CB	CE-005C	Ducon Scrubber
005DA, 005DB	CE-005D	Ducon Scrubber
011A, 011B	CE-011	Ducon Scrubber
018A, 018B	CE-018	Ducon Scrubber
019A, 019B	CE-019	Ducon Scrubber
030A, 030B	CE-030	Ducon Scrubber
043A, 043B	CE-043	Ducon Scrubber
019A, 019B, 030A, 030B, 011A, 011B	CE-025	Entoleter Scrubber

Operating Limits:

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

Dryers

A. Each gluten and fiber feed dryer (EU-011A, EU018A, EU-019A, EU-030A, EU-043A, EU-005CA, EU-005DA) outlet temperature shall operate ≤ 391° F based upon an 8-hour rolling average.

B. Each gluten and fiber feed dryer (EU-011A, EU018A, EU-019A, EU-030A, EU-043A, EU-005CA, EU-005DA) inlet temperature shall operate ≤ 1265° F based upon an 8-hour rolling average.

Scrubbers

C. The Packed Tower Scrubbers #1 & #2 (CE-005A and CE-005B), Ducon Scrubbers (CE-005C, CE-005D, CE-018, CE-019, CE-030, CE-043), Entoleter Centrified Super Scrubber (CE-025), and Ducon Scrubber (CE-011) shall be operated at all times the equipment each device controls is in operation.

D. The recirculation water flow rate to each Packed Tower Scrubber (CE-005A and CE-005B) shall be maintained ≥ 5340 gpm.

E. The differential pressure across each Packed Tower Scrubber (CE-005A and CE-005B) shall be maintained between 1" to 14" w.c.

F. The scrubbing liquor pH to each packed tower scrubber (CE-005A and CE-005B) shall be maintained ≥ 5.4.

G. The Entoleter Super Scrubber (CE-025) make-up water flow rate shall be maintained ≥ 115 gpm.

H. The differential pressure across the Entoleter Super Scrubber (CE-025) shall be maintained between 1" to 10" w.c.

I. The scrubbing liquor pH to the Entoleter Super Scrubber (CE-025) shall be maintained ≥ 8.0.

Regenerative Thermal Oxidizer (RTO)

J. The one-hour average combustion temperature of the RTO (CE-190, 191A, 191B, 192A, and 192B) shall be maintained ≥ 1550° F.

K. RTO (CE-190, 191A, 191B, 192A, and 192B) shall only combust natural gas.

L. As an approved alternate operating scenario, RTOs CE-190, CE-191A, CE-191B, CE-192A, or CE-192B may operate during periods when CE-190, CE-191A, CE-191B, CE-192A, or CE-192B is not operating provided that sufficient RTO capacity is maintained as defined by the minimum temperature requirements specified in condition J. All conditions specified in this permit applicable to CE-190, 191A, CE-191B, CE-192A and CE-192B are applicable to CE-190, CE-191A, CE-191B, CE-192A and CE-192B during such periods of operation.

M. RTO (CE-190, CE-191A, CE-191B, CE-192A, or CE-192B,) shall be equipped with a thermocouple or equivalent device capable of continuously monitoring the combustion chamber temperature of the RTO. The thermocouple or equivalent device shall monitor temperature on a continuous basis, with the one-hour average temperature recorded every hour. The thermocouple or equivalent device shall be installed, operated, calibrated, and maintained according to the manufacturer's specifications.

General Operating Limits

N. Routine observations conducted at least once each week during daylight hours of scrubbers and RTOs shall be conducted to determine whether there are visible emissions from the stack, leaks, atypical operating parameters (e.g. pressure differential, temperature) or other indications that may necessitate corrective action. Corrective action shall be taken immediately if necessary.

O. All control equipment on the emission units shall be maintained according to the manufacturer's specifications and good operating practices.

P. The facility shall monitor the stack for opacity on a weekly basis during a period when the emission unit on this emission point is at or near full capacity and record the reading. 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.

Q. The ADM Corn Processing Wet Mill shall not grind more than 450,000 bushels of corn per day based on a 52-week rolling average.

Authority for Requirement: LCPH ATI 4900 / PTO 5783
LCPH ATI 4901 / PTO 5784
LCPH ATI 4902 / PTO 5785

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Dryers

A. Record the inlet temperature of each gluten and fiber feed dryer (EU-011A, EU018A, EU-019A, EU-030A, EU-043A, EU-005CA, EU-005DA) based upon an 8-hr rolling average.

B. Record the outlet temperature of each gluten and fiber feed dryer (EU-011A, EU018A, EU-019A, EU-030A, EU-043A, EU-005CA, EU-005DA) based upon an 8-hr rolling average.

Scrubbers

C. Record the recirculation water flow rate to Packed Tower Scrubbers #1 and #2 (CE-005A and CE-005B) on a daily basis.

D. Record the differential pressure across each Packed Tower Scrubber (CE-005A and CE-005B) on a daily basis.

E. Record the scrubbing liquor pH to each Packed Tower Scrubber (CE-005A and CE-005B) on a daily basis.

F. Record the make-up flow rate to the Entoleter Super Scrubber (CE-025) on a daily basis.

G. Record the differential pressure across the Entoleter Super Scrubber (CE-025) on a daily basis.

H. Record the scrubbing liquor pH to the Entoleter Super Scrubber (CE-025).

RTOs

I. Record the RTO (CE-190, 191A, 191B, 192A, and 192B) combustion chamber temperature (monitored as a one-hour average).

J. Record pressure drop across each RTO (CE-190, 191A, 191B, 192A, and 192B) on a daily basis while the control equipment is in operation.

K. Record the date and dryer operating hours during periods of off-line RTO regeneration.

General Recordkeeping

L. Record the results of the weekly routine maintenance checks of the scrubbers and RTOs associated with this emission point and any corrective action that is taken.

M. Record the results of the preventative maintenance inspections completed for the RTOs (CE-190, 191A, 191B, 192A, and 192B).

N. Maintain a written record of the weekly opacity observation and any action resulting from the observation. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit.

O. Records of all maintenance and repair completed on the control devices.

P. Record the weekly average facility grind rate.

Authority for Requirement: LCPH ATI 4900 / PTO 5783
LCPH ATI 4901 / PTO 5784
LCPH ATI 4902 / PTO 5785

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

A. Submit a quarterly report summarizing the weekly average facility grind rate.

B. Submit a quarterly report summarizing the dryer operating hours during periods of off-line RTO regeneration and the date(s) of occurrence.

C. Submit semi-annual report listing deviations from the operating limits specified in conditions 15 and 16 [Operating Limits and Operating Condition Monitoring and Recordkeeping]. The Title V annual compliance certification and semi-annual compliance certification may be used to satisfy this requirement.

Authority for Requirement: LCPH ATI 4900 / PTO 5783
LCPH ATI 4901 / PTO 5784
LCPH ATI 4902 / PTO 5785

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Gluten Meal-9.

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (acfm)
SEP-190	ATI 4900 / PTO 5783	150	Vertical, unobstructed	120	275	200,000
SEP-191	ATI 4901 / PTO 5784	150	Vertical, unobstructed	120	275	200,000
SEP-192	ATI 4902 / PTO 5785	150	Vertical, unobstructed	120	275	200,000

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

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

Stack Testing:
The following stack tests shall be performed:

EP 192:

Pollutant – PM_{10}
1st Stack Test to be Completed within the first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter
1st Stack Test to be Completed within the first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

EP 190, 191, 192:
Pollutant – SO_x
1st Stack Test to be Completed within the first two years of permit term
Test Method: Method 6C (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – CO
1st Stack Test to be Completed within the first year of permit term
2nd Stack Test to be Completed between –2.5 years to 3.5 years of permit term
Test Method – Method 10 (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

EP 191 and 192:
Pollutant – NOx
1st Stack Test to be Completed within the first two years of permit term
Test Method: Method 7E (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – VOC
1st Stack Test to be Completed within the first two years of permit term
Test Method: Method 25A (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

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)

Opacity Monitoring:
Visible emissions shall be observed on a weekly basis to ensure none occur when the emission unit on this emission point is at or near full capacity. If visible emissions are 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 visible emissions 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.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

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** ☐
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☐[2] **No** ☒

[1] Facility maintained operation & maintenance plans are required for SEP-190, SEP-191 and SEP-192 for the scrubbers and RTOs.
[2] Compliance Assurance Monitoring have been waived due to CAM equivalent monitoring required by PTOs 5783/5784/5785.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-226, SEP-230

Process Area: 60% GLUTEN MEAL

Table Gluten Meal-10. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
SEP-226	EU-226	Gluten Filters 1-15, 19-22 and Vacuum Pumps 1-4	Gluten	18,750 bu/hr
SEP-230	EU-230	16, 17, 18 Gluten Filter Pumps	Gluten	2,446 bu/hr

Applicable Requirements

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

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

Table Gluten Meal-11. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-226	EU-226	SO_2	500 ppmv	ATI 4839 / PTO 5485 567 IAC 23.3(3)"e" LCO 10.12(2)
		VOC	0.04 lb/hr	ATI 4839 / PTO 5485
			0.19 tpy	
SEP-230	EU-230	SO_2	500 ppmv	ATI 4838 / PTO 5486 567 IAC 23.3(3)"e" LCO 10.12(2)
		VOC	0.04 lb/hr	ATI 4838 / PTO 5486
			0.16 tpy	ATI 4838 / PTO 5486

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Gluten Meal-12.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (scfm)
SEP-226	4839 / 5485	58	Horizontal	34	124	140
SEP-230	4838 / 5486	72	Vertical, unobstructed	8	99	103

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

Monitoring Requirements

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

Stack testing is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-019, SEP-026, SEP-027, SEP-030, SEP-043

Process Area: 21% FIBER FEED

Table Fiber Feed-1. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-019	EU-19A	#1 Fiber Feed Dryer Bypass	Fiber Feed	15.75 ton/hr	CE-019	Multivane Scrubber
SEP-019	EU-19B	#1 Fiber Feed Dryer Bypass – Natural Gas	Natural Gas	0.08 MMCF/ hr	CE-019	Multivane Scrubber
SEP-026	EU-005CA	#4 Fiber Feed Dryer Bypass	Fiber Feed	45 ton/hr	CE-026	Multivane Scrubber
SEP-026	EU-005CB	#4 Fiber Feed Dryer Bypass – Natural Gas	Natural Gas	0.19 MMCF/ hr	CE-026	Multivane Scrubber
SEP-027	EU-005DA	#5 Fiber Feed Dryer Bypass	Fiber Feed	45 ton/hr	CE-027	Multivane Scrubber
SEP-027	EU-005DB	#5 Fiber Feed Dryer Bypass – Natural Gas	Natural Gas	0.19 MMCF/ hr	CE-027	Multivane Scrubber
SEP-030	EU-30A	#2 Fiber Feed Dryer Bypass	Fiber Feed	15.75 ton/hr	CE-030	Multivane Scrubber
SEP-030	EU-30B	#2 Fiber Feed Dryer Bypass – Natural Gas	Natural Gas	0.08 MMCF/ hr	CE-030	Multivane Scrubber
SEP-043	EU-43A	#3 Fiber Feed Dryer Bypass	Fiber Feed	20 ton/hr	CE-043	Multivane Scrubber
SEP-043	EU-43B	#3 Fiber Feed Dryer Bypass - Natural Gas	Natural Gas	0.08 MMCF/ hr	CE-043	Multivane Scrubber

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

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

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. This source shall only exhaust air from the dryer chambers prior to the dryer igniters being activated.

B. No combustion gases and no feed shall be added to the dryer while the dryer exhaust is venting through the bypass.

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

Authority for Requirement: LCPH ATI 5348 / PTO 5222
LCPH ATI 5349 / PTO 5223
LCPH ATI 5350 / PTO 5224
LCPH ATI 5351 / PTO 5225
LCPH ATI 5352 / PTO 5226

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. The following items shall be recorded:

A. Record the date and duration of each purge exhausted through the bypass stack.

B. All maintenance and repair completed on the control device.

Authority for Requirement: LCPH ATI 5348 / PTO 5222
LCPH ATI 5349 / PTO 5223
LCPH ATI 5350 / PTO 5224

LCPH ATI 5351 / PTO 5225
LCPH ATI 5352 / PTO 5226

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Fiber Feed-2.

EP	LCPH ATI / PTO	Stack Characteristics				
		Stack Height (feet, above ground)	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (acfm)**
SEP-019	5348 / 5222	48	Vertical, unobstructed	24	70	51,200
SEP-026	5349 / 5223	60	Vertical, unobstructed	30	70	80,000
SEP-027	5350 / 5224	60	Vertical, unobstructed	30	70	80,000
SEP-030	5351 / 5225	50	Vertical, unobstructed	24	70	51,200
SEP-043	5352 / 5226	57	Vertical, unobstructed	24	70	51,200

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

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-032
Process Area: 21% FIBER FEED

Associated Equipment
Associated Emission Unit ID Numbers : EU-32
Emissions Control Equipment ID Number: CE-032
Emissions Control Equipment Description: Baghouse

Emission Units vented through this Emission Point: EU-32B Cooler 2, EU-32C Stedman Mills
Emission Unit Description: 21% Gluten Feed Stedman Mill D.C.
Raw Material/Fuel: Fiber Feed
Rated Capacity: 126.6 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 4820 / PTO 0

Pollutant: PM_{10}
Emission Limit(s): 0.20 lb/hr
Authority for Requirement: LCPH ATI 4820/ PTO 0

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Pollutant: Particulate Matter
Emission Limit(s): 0.20 lb/hr
Authority for Requirement: LCPH ATI 4820 / PTO 0

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 6.11 lb/hr
Authority for Requirement: LCPH ATI 4820 / PTO 0

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 used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times. All appropriate probes, monitors and gauges

needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and in good operating condition.

Authority for Requirement: LCPH ATI 4820/ PTO 0

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The differential pressure measured across the baghouse, CE-032, shall be maintained between 0.1 inches of water column and 6 inches of water column, with the exception of unit startup.

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

C. The facility-wide grind rate shall be limited to 450,000 bushel of corn per day based on a 52-week rolling average.

Operation parameters delineated at the time of final compliance inspections and testing shall be documented and become incorporated into the conditions of the final Permit to Operate.

Authority for Requirement: LCPH ATI 4820 / PTO 0

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

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. Monitor and record any maintenance and repair completed on the control equipment.

C. Monitor and record the differential pressure on the baghouse on a weekly basis while the control equipment and emission units are in operation.

D. Calculate and record the weekly facility grind rate average based on 52-week rolling average.

Authority for Requirement: LCPH ATI 4820 / PTO 0

<u>Monitoring Requirements</u>
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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** ☒

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 provides 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)

Emission Point ID Number: SEP-211
Process Area: 21% FIBER FEED

Associated Equipment
Associated Emission Unit ID Numbers : EU-211
Emissions Control Equipment ID Number: CE-211
Emissions Control Equipment Description: Packed Tower Scrubber

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Emission Unit vented through this Emission Point: EU-211
Emission Unit Description: Feedhouse Miscellaneous Fugitive Emission Sources
Raw Material/Fuel: Fiber Feed
Rated Capacity: 126.6 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 4841 / PTO 6331
LCO 10.7

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 6.11 lb/hr
Authority for Requirement: LCPH ATI 4841 / PTO 6331

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 2.72 lb/hr
Authority for Requirement: LCPH ATI 4841 / PTO 6331

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

Control Device:
A packed bed scrubber shall be installed to control SO_2 emissions. 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 condition 16 [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 4841 / PTO 6331

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The differential pressure measured across the scrubber, CE-211, shall be maintained between 0.5 inches of water column and 10 inches of water column, with the exception of unit startup.

B. The fresh water flow rate to the scrubber, CE-211, shall be maintained at 133 gallons per minute or higher.

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

D. The facility-wide grind rate shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

Authority for Requirement: LCPH ATI 4841 / PTO 6331

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

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. Monitor and record any maintenance and repair completed on the control equipment.

C. Monitor and record the differential pressure on the wet scrubber on a daily basis while the control equipment and emission units are in operation.

D. Monitor and record the fresh water flow rate in the scrubber on a daily basis.

E. Calculate and record the weekly facility grind rate average based on a 52-week rolling average.

Authority for Requirement: LCPH ATI 4841 / PTO 6331

<u>Emission Point Characteristics</u>
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 73
Discharge Style: Vertical, Unobstructed
Stack Opening, (inches, diameter): 30
Exhaust Temperature (°F): 75
Exhaust Flow Rate (scfm): 11,462
Authority for Requirement: LCPH ATI 4841/ PTO 6331

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate

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

Monitoring Requirements

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

Stack Testing:

Pollutant – Sulfur Dioxide (SO_2)
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 6C (40 CFR 60) or approved alternative
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** ☒[1]

[1] CAM has been waived. PTO 6331 has CAM equivalent monitoring and recordkeeping required. Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-271

Process Area: 21% FIBER FEED

Table Fiber Feed-3. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-271	EU-32A	Stedman Mill	Fiber Feed	15 ton/hr	CE-271	Baghouse
SEP-271	EU-32B	Stedman Mill	Fiber Feed	15 ton/hr	CE-271	Baghouse
SEP-271	EU-32C	Stedman Mill	Fiber Feed	15 ton/hr	CE-271	Baghouse
SEP-271	EU-32D	Stedman Mill	Fiber Feed	15 ton/hr	CE-271	Baghouse
SEP-271	EU-32E	Stedman Mill	Fiber Feed	15 ton/hr	CE-271	Baghouse
SEP-271	EU-32F	Stedman Mill	Fiber Feed	15 ton/hr	CE-271	Baghouse
SEP-271	EU-32G	Stedman Mill	Fiber Feed	15 ton/hr	CE-271	Baghouse
SEP-271	EU-32H	Stedman Mill	Fiber Feed	15 ton/hr	CE-271	Baghouse
SEP-271	EU-271	#1 Vertical Fiber Cooler	Fiber Feed	60 ton/hr	CE-271	Baghouse

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 6188 / PTO 6529
LCO 10.7

Pollutant: PM_{10}
Emission Limit(s): 0.93 lb/hr
Authority for Requirement: LCPH ATI 6188 / PTO 6529

Pollutant: Particulate Matter
Emission Limit(s): 0.93 lb/hr
Authority for Requirement: LCPH ATI 6188 / PTO 6529

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/scf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 3.0 lb/hr
Authority for Requirement: LCPH ATI 6188 / PTO 6529

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 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 condition 16 [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 6188 / PTO 6529

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The pressure drop across the baghouse shall be between 0.5 and 8 inches of water column.

Authority for Requirement: LCPH ATI 6188 / PTO 6529

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

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 monitor and record pressure drop reading across the baghouse on a weekly basis.

C. The owner or operator shall record all maintenance work performed on the baghouse.

Authority for Requirement: LCPH ATI 6188 / PTO 6529

<u>Emission Point Characteristics</u>
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 76
Discharge Style: Vertical, Unobstructed
Stack Opening, (inches, diameter): 36
Exhaust Temperature (°F): 120
Exhaust Flow Rate (acfm): 27,000
Authority for Requirement: LCPH ATI 6188 / PTO 6529

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

Monitoring Requirements

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

Stack Testing:

Pollutant – Particulate Matter

1st Stack Test to be Completed within the first two years of permit term

Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202

Authority for Requirement – 567 IAC 22.108(3)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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** ☐[1]

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

Emission Point ID Number: SEP-006
Process Area: GERM

Associated Equipment
Associated Emission Unit ID Numbers: EU-6
Emissions Control Equipment ID Number: CE-006A, CE-006B, CE-006C
Emissions Control Equipment Description: Cyclone, Cyclone, Horizontal Cross Flow Scrubber

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Emission Unit vented through this Emission Point: EU-6
Emission Unit Description: #2 Fluid Bed Germ Dryer
Raw Material/Fuel: Corn Germ
Rated Capacity: 32,344 lb/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 4815/ PTO 5974

Pollutant: PM_{10}
Emission Limit(s): 4.35 lb/hr
Authority for Requirement: LCPH ATI 4815 / PTO 5974

Pollutant: Particulate Matter
Emission Limit(s): 4.35 lb/hr
Authority for Requirement: LCPH ATI 4815 / PTO 5974

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: LCPH ATI 4815 / PTO 5974
567 IAC 23.4(7)
LCO 10.9(1)"g"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 13.08 lb/hr
Authority for Requirement: LCPH ATI 4815 / PTO 5974

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 10.13 lb/hr
Authority for Requirement: LCPH ATI 4815 / PTO 5974

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

Control Device:
Dual cyclone and a wet scrubber shall be installed to control particulate matter and sulfur dioxide emissions. 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 condition 16 [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 4815 / PTO 5974

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

B. Recirculated water flow to the scrubber shall be maintained at a minimum of 600 gpm.

C. Fresh water (make up) flow to the scrubber shall be maintained at a minimum of 32 gallons per minute or greater.

D. The differential pressure measured across the scrubber shall be greater than 0.5 inches of water column and less than 14 inches of water column.

E. The control devices on the unit shall be maintained according to the manufacturer's specifications and/or good operating practices.

Authority for Requirement: LCPH ATI 4815 / PTO 5974

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and authorized representatives.

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.

A. Record the weekly average facility grind rate.

B. Monitor and record the pressure differential across the wet scrubber on a weekly basis.

C. Monitor and record the recirculated flow to the scrubber on a daily basis.

D. Monitor and record the fresh water flow to the scrubber on a daily basis.

E. Record all maintenance and repair completed on the control devices.

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

A. Submit a quarterly report summarizing the 52-week rolling average facility grind rate.

Authority for Requirement: LCPH ATI 4815 / PTO 5974

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 142
Discharge Style: Vertical, Unobstructed
Stack Opening, (inches, diameter): 72
Exhaust Temperature (°F): 125
Exhaust Flow Rate (acfm): 90,749
Authority for Requirement: LCPH ATI 4815 / PTO 5974

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

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

Stack Testing:

Pollutant – Sulfur Dioxide (SO_2)
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 6C (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

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)

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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** ☐
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☐ **No** ☒[2]

[1] Facility maintained operation & maintenance plans are required for PM, PM_{10} and VOC.
[2] Compliance Assurance Monitoring plan has been waived. PTO 5974 has CAM equivalent monitoring required.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-015
Process Area: GERM

Associated Equipment
Associated Emission Unit ID Numbers: EU-15
Emissions Control Equipment ID Number: CE-015A, CE-015B, CE-015C
Emissions Control Equipment Description: Cyclone, Cyclone, Entoleter Scrubber

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Emission Unit vented through this Emission Point: EU-15
Emission Unit Description: #1 Fluid Bed Germ Dryer
Raw Material/Fuel: Corn Germ
Rated Capacity: 95,000 lb/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 10%
Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

Pollutant: PM_{10}
Emission Limit(s): 2.79 lb/hr
Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

Pollutant: Particulate Matter
Emission Limit(s): 2.79 lb/hr, 0.1 gr/scf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"
LCPH ATI 4541 / PTO 4713R1

Pollutant: Sulfur Dioxide (SO_2)[1]
Emission Limit(s): 90% control or ≤ 20 ppmv
Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 5.17 lb/hr, 22.64 tpy
Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

[1] All emission limitations (including operating parameter ranges and limits) apply at all times when the process equipment is operating, except, in the case of process equipment or pollution control systems, during previously planned startup and shutdown periods (including planned maintenance periods), and malfunctions as defined in 40 CFR 63. These startup and shutdown periods shall not exceed the minimum amount of time necessary for these events, and during these events, ADM shall minimize emissions to the extent practicable. To the extent practicable,

startup and shutdown of pollution control systems will be performed during times when process equipment is also shut down. Also, ADM shall to the extent practicable, control emissions during a malfunction event in a manner consistent with good air pollution control practice for minimizing emissions.

Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

Operational Limits & Requirements

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

Control Device:

A wet scrubber shall be installed to control sulfur dioxide and particulate matter emissions. 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 4541 / PTO 4713R1

Operating Limits:

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

A. Water flow to the scrubber shall be greater than 400 gallons per minute.

B. pH of the scrubbing liquor shall be maintained above 6.8.

C. Pressure drop across the scrubber shall be maintained between 1 – 10 inches of water.

D. The ADM Corn Processing Wet Mill shall not grind more than 450,000 bushels of corn per day based on a 52-week rolling average.

Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

Operating Condition Monitoring and Recordkeeping:

If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

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. Monitor and record the differential pressure on the scrubber on a daily basis while the control equipment is in operation.

C. Monitor and record the scrubber water flow rate on a daily basis.

D. Monitor and record scrubber pH on a daily basis.

E. Monitor and record any maintenance and repair completed on the control unit.

F. Record the weekly average facility grind rate.

G. Maintain copies of source test results until a new approved representative test is conducted or for five (5) years, whichever is longer

Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

Quarterly Report Requirements:
The following information shall be submitted to this department by the 15th of each month for the previous quarter (January 15, April 15, July 15, and October 15).

A. Submit a quarterly report summarizing the weekly average grind rate for each month of the quarter.

Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 146
Discharge Style: Vertical, Unobstructed
Stack Opening, (inches, diameter): 60
Exhaust Temperature (°F): 135
Exhaust Flow Rate (scfm): 65,000
Authority for Requirement: LCPH ATI 4541 / PTO 4713R1

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

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

Stack Testing:
The following stack tests shall be performed:

Pollutant – PM_{10}
1st Stack Test to be Completed within the first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter
1st Stack Test to be Completed within the first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Sulfur Dioxide (SO_2)

1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 6C (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

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).

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 >10 % 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.

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** ☒[1]

[1] Compliance Assurance Monitoring plan has been waived. PTO 4713R1 has CAM equivalent monitoring required.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-016

Process Area: GERM

Table Germ-1. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE-ID	CE Description
SEP-016	EU-12	Fiber Feed – Wet Feed Tank	Fiber Feed	57.5 ton/hr	CE-16E	Horizontal Cross Flow Scrubber
SEP-016	EU-16A	#1 Steam Tube Germ Dryer	Corn Germ	32 ton/hr	CE-16A CE-16E	Cyclone, Horizontal Cross Flow Scrubber
SEP-016	EU-16B	#2 Steam Tube Germ Dryer	Corn Germ	32 ton/hr	CE-16B CE-16E	Cyclone, Horizontal Cross Flow Scrubber
SEP-016	EU-16C	#3 Steam Tube Germ Dryer	Corn Germ	32 ton/hr	CE-16C CE-16E	Cyclone, Horizontal Cross Flow Scrubber
SEP-016	EU-16D	#4 Steam Tube Germ Dryer	Corn Germ	32 ton/hr	CE-16D CE-16E	Cyclone, Horizontal Cross Flow Scrubber

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 10%[2]
Authority for Requirement: LCPH ATI 4818 / PTO 5782
LCO 10.7

Pollutant: PM_{10}
Emission Limit(s): 1.65 lb/hr[1]
Authority for Requirement: LCPH ATI 4818 / PTO 5782

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"
LCPH ATI 4818 / PTO 5782

Pollutant: Particulate Matter
Emission Limit(s): 1.65 lb/hr[1]
Authority for Requirement: LCPH ATI 4818 / PTO 5782

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 4.7 lb/hr[1]
Authority for Requirement: LCPH ATI 4818/ PTO 5782

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 21.36 lb/hr[1]
Authority for Requirement: LCPH ATI 4818/ PTO 5782

[1] Standard is expressed as the average of three runs.
[2] An exceedance of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, Linn County may require additional proof to demonstrate compliance (e.g., stack testing).

Table Germ-2. 1992 Corn Grind Expansion Emission Limits

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-016	EU-16A EU-16B EU-16C EU-16D	Opacity	10%	1992 Corn Grind Expansion Synthetic Minor Limit
		PM_{10}	14.3 tpy[1]	1992 Corn Grind Expansion Synthetic Minor Limit
		NOx	38 tpy[1]	1992 Corn Grind Expansion Synthetic Minor Limit

[1] Standard expressed as a 12-month rolling total

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

Control Device:
A wet scrubber and four cyclones shall be installed to control particulate matter emissions. 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 condition 16 [Operating Condition Monitoring and Recordkeeping] shall be installed, maintained and operating during the operation of the emission unit and control devices at all times.

Authority for Requirement: LCPH ATI 4818/ PTO 5782

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

B. The fresh water flow to the scrubber shall be no less than 45 gpm.

C. The recirculation water flow to the scrubber shall be no less than 610 gpm.

D. The pH of the scrubber liquid shall be no less than 7.0.

E. The pressure differential across the scrubber shall be maintained between 0.5" to 10" w.c.

F. The scrubber on this unit shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 4818/ PTO 5782

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall record the weekly average facility grind rate.

B. The owner or operator shall monitor and record the recirculation water flow rate in the scrubber on a daily basis.

C. The owner or operator shall monitor and record the fresh water flow rate in the scrubber on a daily basis.

D. The owner or operator shall monitor and record the pH of the scrubbing liquid on a daily basis.

E. The owner or operator shall monitor and record the pressure differential across the scrubber on a daily basis.

F. The owner or operator shall maintain a record of all maintenance completed on the control device.

G. 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 4818/ PTO 5782

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 144
Discharge Style: Vertical, Unobstructed
Stack Opening, (inches, diameter): 72
Exhaust Temperature (°F): 125
Exhaust Flow Rate (acfm): 106,022
Authority for Requirement: LCPH ATI 4818/ PTO 5782

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

Monitoring Requirements

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

Stack Testing:

Pollutant – Sulfur Dioxide (SO_2)
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 6C (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Volatile Organic Compounds (VOC)
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 25A (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

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)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 >10 % 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.

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** ☐
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☐	**No** ☒[2]

[1] Facility maintained operation & maintenance plans are required for PM and PM_{10}.
[2] Compliance Assurance Monitoring has been waived for SOx and VOC control. PTO 5782 has CAM equivalent monitoring and recordkeeping requirements.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-021
Process Area: GERM

Associated Equipment
Associated Emission Unit ID Numbers: EU-21
Emissions Control Equipment ID Number: CE-021A, CE-021B, CE-021C
Emissions Control Equipment Description: Cyclone, Cyclone, Multivane Scrubber

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Emission Unit vented through this Emission Point: EU-21
Emission Unit Description: Germ Cooler
Raw Material/Fuel: Corn Germ
Rated Capacity: 32.8 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 4819 / PTO 6149

Pollutant: PM_{10}
Emission Limit(s): 0.2 lb/hr
Authority for Requirement: LCPH ATI 4819 / PTO 6149

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"
LCPH ATI 4819 / PTO 6149

Pollutant: Particulate Matter
Emission Limit(s): 0.20 lb/hr
Authority for Requirement: LCPH ATI 4819 / PTO 6149

Pollutant: VOC
Emission Limit(s): 2.16 lb/hr
Authority for Requirement: LCPH ATI 4819/ PTO 6149

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

Control Device:
Dual cyclones and a wet scrubber shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source

is in operation. All appropriate probes and gauges needed to measure the parameters outlined in [Operating Condition Monitoring and Recordkeeping] shall be installed and maintained in a good operating condition.

Authority for Requirement: LCPH ATI 4819 / PTO 6149

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

B. Water flow to the scrubber unit shall be maintained at a minimum of 104 gallons per minute at all times while the unit is in operation.

C. The differential pressure measured across the scrubber shall be greater than 0.5 inch of water column and less than 10 inches of water column.

D. The control equipment shall be maintained according to the manufacturer's specification and/or good operating practices.

Authority for Requirement: LCPH ATI 4819 / PTO 6149

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Monitor and record the pressure differential across the scrubber on a daily basis.

B. Monitor and record the water flow to the scrubber on a daily basis.

C. 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 findings and corrective action taken.

D. Calculate and record the weekly facility grind rate on a 52-week rolling average basis.

E. Record all maintenance and repair completed on the control devices.

Authority for Requirement: LCPH ATI 4819 / PTO 6149

<u>Emission Point Characteristics</u>
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 100
Discharge Style: Vertical, Unobstructed
Stack Opening, (inches, diameter): 30
Exhaust Temperature (°F): 105
Exhaust Flow Rate (acfm): 16,298
Authority for Requirement: LCPH ATI 4819 / PTO 6149

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

Monitoring Requirements

Stack testing is not required for EP 021.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-388

Process Area: PELLET MILL

Table Pellet Mill-1. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-388	EU-1	#4 Pellet Cooler	Gluten Feed	39 tons / hr	CE-001A CE-001B	Baghouse Cyclone
SEP-388	EU-29	#1 Pellet Cooler	Gluten Feed	26 tons / hr	CE-029 A CE-029 B	Cyclone Cyclone
SEP-388	EU-36	Pellet Mill Dust Collection	Gluten Feed	130 tons / hr	CE-036	Baghouse
SEP-388	EU-38	#2 Pellet Cooler	Gluten Feed	26 tons / hr	CE-038A CE-038B	Cyclones Cyclones
SEP-388	EU-39	#3 Pellet Cooler	Gluten Feed	36 tons / hr	CE-039A CE-039B	Cyclones Cyclones

Applicable Requirements

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

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

Pollutant: Opacity
Emission Limit(s): 20%[2]
Authority for Requirement: LCPH ATI 5037 / PTO 6077
LCO 10.7

Pollutant: PM_{10}
Emission Limit(s): 4.54 lb/hr[1], 3.28 lb/hr[3], 14.4 tpy
Authority for Requirement: LCPH ATI 5037 / PTO 6077

Pollutant: Particulate Matter
Emission Limit(s): 4.54 lb/hr
Authority for Requirement: LCPH ATI 5037 / PTO 6077

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 16.35 lb/hr
Authority for Requirement: LCPH ATI 5037 / PTO 6077

[1] Emission rate used to demonstrate no exceedance of the National Ambient Air Quality Standards (NAAQS).

[2] An exceedance of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If opacity continues to be seen after the corrections, Linn County may require additional proof to demonstrate compliance (e.g. stack testing).
[3] PM_{10} potential to emit from Coolers #1 (EU-29), #2 (EU-038), #3 (EU-039), and #4 (EU-1) shall be limited to 3.28 pounds per hour and 14.4 tons per year for this project to remain below PSD significance thresholds.

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

Control Equipment
Two baghouses and seven cyclones shall be used to control particulate matter emissions. 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 outline in condition 16 [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 5037 / PTO 6077

Operating Limits
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

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

B. Pressure drop across the baghouse, CE-036, shall be maintained between 0.5 to 8 inches of water.

C. Pressure drop across the baghouse, CE-001A, shall be maintained between 0.2 to 6 inches of water.

D. The facility-wide grind shall be limited to 450,000 bushels of corn per day based on a 52-week rolling average.

Authority for Requirement: LCPH ATI 5037 / PTO 6077

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Pressure drop across the baghouse, CE-036, shall be recorded on a daily basis while the control equipment is in operation.

B. Pressure drop across the baghouse, CE-001A, shall be recorded on a daily basis while the control equipment is in operation.

C. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis while the control equipment is in operation. 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. Record the weekly average facility grind rate.

E. Record all maintenance and repair completed to the control equipment.

F. Retain copies of emission test results for compliance testing completed on this emission source.

Authority for Requirement: LCPH ATI 5037 / PTO 6077

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 140
Stack Opening, (inches, dia.): 74
Exhaust Flow Rate (scfm): 99,487
Exhaust Temperature (°F): 140
Authority for Requirement: LCPH ATI 5037 / PTO 6077

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

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

Stack Testing:
The following stack tests shall be performed:

Pollutant – PM_{10}
1st Stack Test to be Completed within the first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter
1st Stack Test to be Completed within the first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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** ☒[1]

[1] Compliance Assurance Monitoring plan has been waived. PTO 6077 has CAM equivalent monitoring required.

Authority for Requirement: 567 IAC 22.108(3)

Alcohol Process Area:

NSPS:
Several pieces of equipment associated with this process group are subject to 40 CFR Part 60 Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry. (ADM Corn Processing is responsible for demonstrating compliance with 40 CFR 60 Subpart VV as printed in the Federal Register.)

Authority for Requirement: LCO 10.9(2)(a)"40"
567 IAC 23.1(2)"n"
40 CFR Subpart VV

Several pieces of equipment associated with this process group are subject to 40 CFR Part 60 Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) For Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. (ADM Corn Processing is responsible for demonstrating compliance with 40 CFR 60 Subpart Kb as printed in the Federal Register.)

Authority for Requirement: LCO 10.9(2)(a)"56"
567 IAC 23.1(2)"ddd"
40 CFR Subpart Kb

NESHAP:
Several pieces of equipment associated with this process group are subject to 40 CFR Part 63 Subpart FFFF, National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing. (ADM Corn Processing is responsible for demonstrating compliance with 40 CFR 63 Subpart FFFF as printed in the Federal Register.)

Authority for Requirement: LCO 10.9(4) "ffff"
567 IAC 23.1(4) "cf"
40 CFR 63 Subpart FFFF

Emission Point ID Number: SEP-055
Process Area: ALCOHOL

Associated Equipment
Associated Emission Unit ID Numbers: EU-55
Emissions Control Equipment ID Number: CE-055
Emissions Control Equipment Description: Wet Scrubber

Emission Units vented through this Emission Point: EU-55A, EU-55B, EU-55C, EU-55D
Emission Unit Description: Fermenter Vent / CO_2 Scrubber
Raw Material/Fuel: Carbon Dioxide (CO_2)
Rated Capacity: 100.4 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 95% control or 20 ppmv, 72.4 lb/hr[1]
Authority for Requirement: LCPH ATI 6443 / PTO 6507

[1] All emission limitations (including operating parameter ranges and limits) apply at all times when process equipment is operating, except, in the case of process equipment or pollution control systems, during previously planned startup and shutdown periods (including planned maintenance periods), and malfunctions as defined in 40 CFR Part 63. These startup and shutdown periods shall not exceed the minimum amount of time necessary for these events, and during these events, ADM shall minimize emissions to the extent practicable. To the extent practicable, startup and shutdown of pollution control systems will be performed during times when the process equipment is also shut down. Also, ADM shall to the extent practicable, control emissions during a malfunction event in a manner consistent with good air pollution control practice for minimizing emissions. *ADM Consent Decree, Cedar Rapids Control Technology Plan Section 7.0, Footnote 1.*

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

Control Device:
A packed bed scrubber shall be installed to control volatile organic compounds emissions. 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 6443 / PTO 6507

NSPS and NESHAP Applicability:
In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCO 10.9.2 and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (National Emission Standards for Hazardous Air Pollutants) shall be applicable as specified in LCO 10.9.3 and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (National Emission Standards for Hazardous Air Pollutants for Source Categories) shall be applicable as specified in LCO 10.9.4 and 567 IAC 23.1(4).

A. This emission unit is not subject to a NSPS as there are no subparts for this source category.

B. This emission unit is subject to Subpart A (General Provisions, 40 CFR §63.1 – 40 CFR §63.15) and FFFF (National Emission Standard for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, §63.2430 – 63.2550) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and shall apply to this source pursuant to LCO 10.9(4) "ffff" and 567 IAC 23.1 (4) "cf." This unit has initially been determined to be a Group 2 continuous process vent.

Authority for Requirement: LCPH ATI 6443 / PTO 6507

Operating Limits:

A. This facility is limited to the following production amounts:

   i. A maximum of 316.5 x 10^6 gallons of 200° alcohol per 12-month rolling period.
   ii. A maximum of 82.4 x 10^6 gallons of 200° alcohol per calendar quarter.
   iii. A maximum of 332.3 x 10^6 gallons of completely denatured alcohol per 12-month rolling period.
   iv. A maximum of 86.5 x 10^6 gallons of completely denatured alcohol per calendar quarter.

B. The freshwater flow to the top bed of the scrubber shall be maintained at 131 gallons per minute or greater.

C. The recycled water flow to the bottom bed of the scrubber shall be maintained at 350 gallons per minute or greater.

D. If the recirculation rate operates below 350 gallons per minute, the fresh water flow to the scrubber shall be maintained at 245 gallons per minute or greater.

E. The differential pressure measured across the scrubber, CE-055, shall be maintained between 2 and 22 inches of water column during normal operations.

F. The differential pressure measured across the scrubber, CE-055, is not required to be monitored or maintained in the "normal operations" range when the blender rate (feedstock) drops below 2100 gallons per minute.

G. The owner or operator shall comply with all applicable requirements set forth in 40 CFR 63 Subpart A (40 CFR §63.1 through 40 CFR §63.15) and 40 CFR 63 Subpart FFFF (40 CFR §63.2430 through 40 CFR §63.2550).

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

Authority for Requirement: LCPH ATI 6443 / PTO 6507

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

A. The owner or operator shall monitor and record the fresh water flow rate to the top bed of the scrubber on a daily basis while the control equipment is in operation.

B. The owner or operator shall monitor and record the recycled water flow rate to the bottom bed of the scrubber on a daily basis while the control equipment is in operation.

C. The owner or operator shall monitor and record the differential pressure across the scrubber on a daily basis while the control equipment is in operation and the blender rate is 2100 gallons per minute or above.

D. The owner or operator shall monitor and record the daily blender (feedstock) rate.

E. The owner or operator shall calculate and record the amount of 200° alcohol and completely denatured alcohol produced monthly, per calendar quarter and 12-month rolling period.

F. The owner or operator shall comply with all applicable recordkeeping, notification, and reporting requirements as set forth in 40 CFR Subpart A (40 CFR §63.1 through 40 CFR §63.15) and 40 CFR Subpart FFFF (40 CFR §63.2515, 40 CFR §63.2520, 40 CFR §63.2525).

Authority for Requirement: LCPH ATI 6443 / PTO 6507

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 123
Discharge Style: Vertical, unobstructed
Stack Opening (inches, diameter): 30
Exhaust Temperature (°F): 85
Exhaust Flow rate (acfm): 35,838
Authority for Requirement: LCPH ATI 6443 / PTO 6507

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

Monitoring Requirements

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

Stack Testing:

Pollutant – Volatile Organic Compounds (VOC)[1]
1st Stack Test to be Completed within the first year of permit term
2nd Stack Test to be Completed between 2.5 years to 3.5 years of permit term
Test Method – Method 25A (40 CFR 60) or approved alternative
Authority for Requirement: 567 IAC 22.108(3)

[1] Testing shall be conducted during the months of June, July, or August. Semi-annual testing conducted to satisfy the compliance requirements of LCPH ATI 6443 / PTO 6507 can also satisfy the testing requirements of this operating permit so long as those tests are completed during the months of June, July, or August.

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)

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required?	**Yes** ☒[1] **No** ☐
Facility Maintained Operation & Maintenance Plan Required?	**Yes** ☐ **No** ☒
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☐ **No** ☒[2]

[1] Agency-approved operation & maintenance plan is required for VOC.
[2] SEP-055 is subject to NESHAP Subpart FFFF, and is therefore exempt from CAM.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix A, Agency Approved O&M Plans, for the complete agency approved operation and maintenance plan.

Emission Point ID Number: SEP-057, SEP-058, SEP-059, SEP-060

Process Area: ALCOHOL

Table Alcohol-1. Associated Equipment.

EP	EU	EU Description	Raw Material/Fuel	Rated Capacity	CE ID	CE Description
SEP-057	EU-57	Yeast Propagator Tank #1	Yeast Culture	14,381 gallons	CE-057	Wet Scrubber
SEP-058	EU-58	Yeast Propagator Tank #2	Yeast Culture	14,381 gallons	CE-058	Wet Scrubber
SEP-059	EU-59	Yeast Propagator Tank #3	Yeast Culture	14,381 gallons	CE-059	Wet Scrubber
SEP-060	EU-60	Yeast Propagator Tank #4	Yeast Culture	14,381 gallons	CE-060	Wet Scrubber

Applicable Requirements

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

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

Table Alcohol-2. Emission Limits.

EP	EU	VOC	Permit #
SEP-057	EU-57	0.96 lb/hr[1], 4.2 tpy[1]	LCPH ATI 4676 / PTO 5481
SEP-058	EU-58	0.96 lb/hr[1], 4.2 tpy[1]	LCPH ATI 4677 / PTO 5482
SEP-059	EU-59	0.96 lb/hr[1], 4.2 tpy[1]	LCPH ATI 4678 / PTO 5483
SEP-060	EU-60	0.96 lb/hr[1], 4.2 tpy[1]	LCPH ATI 4679 / PTO 5484

[1] This emission limit is for the combined emissions from EP 057 Yeast Propagator Tank 1, EP 058 Yeast Propagator Tank 2, EP 059 Yeast Propagator Tank 3 and EP 060 Yeast Propagator Tank 4.

Operational Limits & Requirements

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

Control Device:

A scrubber shall be installed to control VOC emissions. 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 4676 / PTO 5481
LCPH ATI 4677 / PTO 5482
LCPH ATI 4678 / PTO 5483
LCPH ATI 4679 / PTO 5484

Operating Limits:

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

A. This facility is limited to the following production amounts:

i. A maximum of 316.5 x 10^6 gallons of 200° alcohol per 12-month rolling period.
ii. A maximum of 82.4 x 10^6 gallons of 200° alcohol per calendar quarter.
iii. A maximum of 332.3 x 10^6 gallons of completely denatured alcohol per 12-month rolling period.
iv. A maximum of 86.5 x 10^6 gallons of completely denatured alcohol per calendar quarter.

B. The water flow rate in the scrubber shall be no less than 5% below the minimum water flow rate recorded during a successful compliance test for VOC emissions.

C. The scrubber on this unit shall be maintained according to the manufacturer's specifications and/or good operating practices.

Authority for Requirement: LCPH ATI 4676 / PTO 5481
LCPH ATI 4677 / PTO 5482
LCPH ATI 4678 / PTO 5483
LCPH ATI 4679 / PTO 5484

Operating Condition 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Monitor and record the water flow rate in the scrubber on a daily basis.

B. Record the amount of 200° alcohol and completely denatured alcohol produced. Calculate and record monthly, calendar quarter and 12-month rolling totals.

Authority for Requirement: LCPH ATI 4676 / PTO 5481
LCPH ATI 4677 / PTO 5482
LCPH ATI 4678 / PTO 5483
LCPH ATI 4679 / PTO 5484

Emission Point Characteristics
The emission points shall conform to the specifications listed below.

Table Alcohol-3.

EP	EU	LCPH ATI / PTO Numbers	Stack Characteristics				
			Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow rate (scfm)
SEP-057	EU-57	4676 / 5481	49	Vertical, unobstructed	6	67	54
SEP-058	EU-58	4677 / 5482	49	Vertical, unobstructed	6	67	54
SEP-059	EU-59	4678 / 5483	49	Vertical, unobstructed	6	67	54
SEP-060	EU-60	4679 / 5484	49	Vertical, unobstructed	6	67	54

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

Monitoring Requirements

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-069
Process Area: ALCOHOL

Associated Equipment
Associated Emission Unit ID Numbers: EU-69
Emissions Control Equipment ID Number: CE-069
Emissions Control Equipment Description: Packed Bed Scrubber

Emission Unit vented through this Emission Point: EU-69
Emission Unit Description: 190 Product Scrubbing System
Raw Material/Fuel: Ethanol, 190 Proof
Rated Capacity: 36,130 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.3 lb/hr
Authority for Requirement: LCPH ATI 6426 / PTO 6460

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)
Authority for Requirement: LCPH ATI 6426 / PTO 6460

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 2.0 lb/hr
Authority for Requirement: LCPH ATI 6426 / PTO 6460

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

Control Device:
A packed bed scrubber shall be installed to control VOC and SO_2 emissions. 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 6426 / PTO 6460

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. This facility is limited to the following production amounts:

   i. A maximum of 316.5 x 10^6 gallons of 200° alcohol per 12-month rolling period.
   ii. A maximum of 82.4 x 10^6 gallons of 200° alcohol per calendar quarter.
   iii. A maximum of 332.3 x 10^6 gallons of completely denatured alcohol per 12-month rolling period.
   iv. A maximum of 86.5 x 10^6 gallons of completely denatured alcohol per calendar quarter.

B. The fresh water flow rate in the scrubber shall be maintained at a minimum of 19.2 gallons per minute at all times while the unit is in operation.

C. The differential pressure measured across the packed bed scrubber, CE-069, shall be maintained between 0.2 inches of water and 10 inches of water column with the exception of unit startup.

D. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

E. The owner or operator shall comply with all applicable requirements set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2430 through 40 CFR §63.2550).

F. The owner or operator shall maintain the control equipment according to manufacturer's specification and maintenance schedule.

Authority for Requirement: LCPH ATI 6426 / PTO 6460

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

A. Monitor and record the scrubber water flow rate on a daily basis while the control equipment and emission unit are in operation.

B. Monitor and record the differential pressure on the wet scrubber on a weekly basis while the control equipment and emission unit are in operation. If the pressure drop deviates from the 0.2 to 10 INWC range then an inspection of the system shall be completed and any observations, unusual process conditions, and corrective actions shall be recorded.

C. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control device.

D. Calculate and record monthly the amount of 200° alcohol produced per calendar quarter and 12-month rolling period.

E. Calculate and record monthly the amount of completely denatured alcohol produced per calendar quarter and 12-month rolling period.

F. The owner or operator shall comply with all applicable recordkeeping, notification, and reporting requirements as set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2515, 40 CFR §63.2520, and 40 CFR §63.2525).

Authority for Requirement: LCPH ATI 6426 / PTO 6460

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 115
Discharge Style: Vertical, obstructed
Stack Opening, (inches, diameter): 8
Exhaust Temperature (°F): 70
Exhaust Flow Rate (scfm): 336
Authority for Requirement: LCPH ATI 4682 / PTO 6460

The temperature and flow rate 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 design characteristics are different than the values stated above, the owner/operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Source testing is not required for this source at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-070
Process Area: ALCOHOL

Associated Equipment
Associated Emission Unit ID Numbers: EU-70
Emissions Control Equipment ID Number: CE-070
Emissions Control Equipment Description: 200 Product Scrubbing System

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Emission Unit vented through this Emission Point: EU-70
Emission Unit Description: 200 Product Scrubbing System
Raw Material/Fuel: Ethanol, 200 Proof
Rated Capacity: 36,130.14 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 1.05 lb/hr
Authority for Requirement: LCPH ATI 6057 / PTO 6333

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

Control Device:
A wet scrubber shall be installed to control VOC emissions. 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 6057 / PTO 6333

Operating Limits:

A. This facility is limited to the following production amounts:

   i. A maximum of 316.5 x 10^6 gallons of 200° alcohol per 12-month rolling period.
   ii. A maximum of 82.4 x 10^6 gallons of 200° alcohol per calendar quarter.
   iii. A maximum of 332.3 x 10^6 gallons of completely denatured alcohol per 12-month rolling period.
   iv. A maximum of 86.5 x 10^6 gallons of completely denatured alcohol per calendar quarter.

B. The scrubber shall only use fresh water and have a minimum flow rate of 19 gallons per minute.

C. The scrubber on this unit shall be maintained according to the manufacturer's specifications and/or good operating practices.

D. The differential pressure across the scrubber shall be maintained between 1 and 12 inches of water column.

Authority for Requirement: LCPH ATI 6057 / PTO 6333

Operating Condition 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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Monitor and record the fresh water flow rate in the scrubber on a weekly basis.

B. Monitor and record the pressure drop across the scrubber on a weekly basis.

C. Calculate and record monthly the amount of 200° alcohol produced per calendar quarter and 12-month rolling period.

D. Calculate and record monthly the amount of completely denatured alcohol produced per calendar quarter and 12-month rolling period.

Authority for Requirement: LCPH ATI 6057 / PTO 6333

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 96
Discharge Style: Vertical, with spark arrestor
Stack Opening, (inches, diameter): 8
Exhaust Temperature (°F): 60
Exhaust Flow Rate (acfm): 392
Authority for Requirement: LCPH ATI 6057 / PTO 6333

The temperature and flow rate 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 design characteristics are different than the values stated above, the owner/operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-071, SEP-072, SEP-075, SEP-077, SEP-080, SEP-081, SEP-082

Process Area: ALCOHOL

Table Alcohol-4. Associated Equipment.

EP	EU	EU Description	Raw Material / Fuel	Rated Capacity	CE ID	CE Description
SEP-071	EU-71	#1 Alcohol Storage Tank	CDA	500,000 gallons	CE-071	Internal Floating Roof Seal
SEP-072	EU-72	#2 Alcohol Storage Tank	CDA	500,000 gallons	CE-072	Internal Floating Roof Seal
SEP-075	EU-75	#2 Hi-Wine Transfer Tank	Ethanol, 200 Proof	200,000 gallons	CE-075	Internal Floating Roof Seal
SEP-077	EU-77	Corrosion Inhibitor Tank	Corrosion Inhibitor	8,761 gallons	None	None
SEP-080	EU-80	#3 Hi-Wine Process Tank	Ethanol, 200 Proof	200,000 gallons	CE-080	Internal Floating Roof Seal
SEP-081	EU-81	Fusel Oil Tank	Fusel Oil	16,920 gallons	None	None
SEP-082	EU-82	190 Proof Storage Tank	Ethanol, 190 Proof	154,224 gallons	None	None

Applicable Requirements

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

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

Table Alcohol-5. Emission Limits.

EP	EU	VOC	LCPH Permit #
SEP-071	EU-71	None	ATI 4684 / PTO 5295
SEP-072	EU-72	None	ATI 4685 / PTO 5296
SEP-075	EU-75	None	ATI 4688 / PTO 5299
SEP-077	EU-77	None	ATI 4690 / PTO 5300
SEP-080	EU-80	None	ATI 4691 / PTO 5301
SEP-081	EU-81	None	ATI 4692 / PTO 5302
SEP-082	EU-82	None	ATI 4693 / PTO 5303

Operational Limits & Requirements

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

Control Device:
An internal floating roof shall be installed to control VOC emissions. 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 4684 / PTO 5295
LCPH ATI 4685 / PTO 5296
LCPH ATI 4688 / PTO 5299
LCPH ATI 4691 / PTO 5301

NSPS and NESHAP Applicability:
In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCO 10.9.2 and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (National Emission Standards for Hazardous Air Pollutants) shall be applicable as specified in LCO 10.9.3 and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (National Emission Standards for Hazarouds Air Pollutants for source categories) shall be applicable as specified in LCO 10.9.4 and 567 IAC 23.1(4).

A. The New Source Performance Standards (NSPS) Subpart A, General Provisions, and Subpart VV, Standards of Performance for Equipment Leaks of VOC in Synthetic Organic Chemicals Manufacturing, shall apply to this source pursuant to LCO 10.9(2)(a) “40” and 567 IAC 23.1(2)”n.”

B. This source is not subject to a NESHAP at this time.

Authority for Requirement: LCPH ATI 4684 / PTO 5295
LCPH ATI 4685 / PTO 5296
LCPH ATI 4688 / PTO 5299
LCPH ATI 4690 / PTO 5300
LCPH ATI 4691 / PTO 5301
LCPH ATI 4692 / PTO 5302
LCPH ATI 4693 / PTO 5303
LCO 10.9(2)(a)“40”
567 IAC 23.1(2)”n”
40 CFR 60 Subpart VV

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. This facility shall comply with the requirements of NSPS Subpart VV by meeting the standards of 40 CFR §60.482-1 through 40 CFR §60.485.

B. This facility is limited to the following production amounts:

i. A maximum of 316.5 x 10^6 gallons of 200° alcohol per 12-month rolling period.
ii. A maximum of 82.4 x 10^6 gallons of 200° alcohol per calendar quarter.
iii. A maximum of 332.3 x 10^6 gallons of completely denatured alcohol per 12-month rolling period.

iv. A maximum of 86.5 x 10^6 gallons of completely denatured alcohol per calendar quarter.

Authority for Requirement: LCPH ATI 4684 / PTO 5295
LCPH ATI 4685 / PTO 5296
LCPH ATI 4688 / PTO 5299
LCPH ATI 4690 / PTO 5300
LCPH ATI 4691 / PTO 5301
LCPH ATI 4692 / PTO 5302
LCPH ATI 4693 / PTO 5303

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Recordkeeping for NSPS Subpart VV shall be done according to 40 CFR §60.486.

B. Reporting for NSPS Subpart VV shall be done according to 40 CFR §60.487.

C. Record the amount of 200° alcohol and completely denatured alcohol produced. Calculate and record monthly, calendar quarter and 12-month rolling totals.

Authority for Requirement: LCPH ATI 4684 / PTO 5295
LCPH ATI 4685 / PTO 5296
LCPH ATI 4688 / PTO 5299
LCPH ATI 4690 / PTO 5300
LCPH ATI 4691 / PTO 5301
LCPH ATI 4692 / PTO 5302
LCPH ATI 4693 / PTO 5303
LCO 10.9(2)(a)“40”
567 IAC 23.1(2)”n”
40 CFR 60 Subpart VV

<u>Emission Point Characteristics</u>
The emission point shall conform to the specifications listed below.

Table Alcohol-6.

EP	EU	LCPH ATI / PTO Numbers	Stack Characteristics				
			Stack Height (ft, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (scfm)
SEP-071	EU-71	4684 / 5295	42	Horizontal	4 vents at 24" x 10"	80	Passive displacement
SEP-072	EU-72	4685 / 5296	42	Horizontal	4 vents at 24" x 10"	80	Passive displacement
SEP-075	EU-75	4688 / 5299	32	Horizontal	3 vents at 24" x 10"	89	Passive displacement

EP	EU	LCPH ATI / PTO Numbers	Stack Characteristics				
			Stack Height (ft, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (scfm)
SEP-077	EU-77	4690 / 4300	17	Vertical w/ obstructing rain cap	3	Ambient	Passive displacement
SEP-080	EU-80	4691 / 5301	17	Vertical w/ obstructing rain cap	3 vents at 24" x 10"	70	Passive displacement
SEP-081	EU-81	4692 / 5302	17	Vertical w/ obstructing rain cap	4	Ambient	Passive displacement
SEP-082	EU-82	4693 / 5303	44	Vertical w/ obstructing rain cap	4	89	Passive displacement

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

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-073, SEP-074
Process Area: ALCOHOL

Table Alcohol-7. Associated Equipment.

EP	EU	EU Description	Raw Material / Fuel	Rated Capacity	CE ID	CE Description
SEP-073	EU-73	#3 Alcohol Storage Tank	CDA	1,000,000 gallons	CE-073	Internal Floating Roof
SEP-074	EU-74	Denaturant Storage Tank	Denaturant	200,000 gallons	CE-074	Internal Floating Roof

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Alcohol-8. Emission Limits.

EP	EU	VOC	LCPH Permit #
SEP-073	EU-73	None	ATI 4686 / PTO 5297
SEP-074	EU-74	0.27 lb/hr, 1.19 tpy	ATI 4687 / PTO 5298

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

Control Device:
An internal floating roof shall be installed to control VOC emissions. 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 4686 / PTO 5297
LCPH ATI 4687 / PTO 5298

NSPS and NESHAP Applicability:
In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCO 10.9.2 and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (national emission standards for hazardous air pollutants) shall be applicable as specified in LCO 10.9.3 and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (national emission standards for hazardous air pollutants for source categories) shall be applicable as specified in LCO 10.9.4 and 567 IAC 23.1(4).

A. The New Source Performance Standards (NSPS) Subpart VV, Standards of Performance for Equipment Leaks of VOC in Synthetic Organic Chemicals Manufacturing, shall apply to this source pursuant to LCO 10.9(2)(a) “40” and 567 IAC 23.1(2)”n.”

B. The New Source Performance Standards (NSPS) Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984 shall apply to this source pursuant to LCO 10.9(2)(a) "56" and 567 IAC 23.1(2) "ddd."

C. This source is not subject to a NESHAP at this time.

Authority for Requirement: LCPH ATI 4686 / PTO 5297
LCPH ATI 4687 / PTO 5298
LCO 10.9(2)(a)"40"
LCO 10.9(2)(a)"56"
567 IAC 23.1(2)"n"
567 IAC 23.1(2)"ddd"
40 CFR 60 Subpart VV
40 CFR 60 Subpart Kb

Operating Limits:

A. This facility shall comply with the requirements of NSPS Subpart VV by meeting the standards of 40 CFR §60.482-1 through 40 CFR §60.485.

B. This facility shall comply with the requirements of NSPS Subpart Kb by meeting the standards of 40 CFR §60.112b and the testing and procedures of 40 CFR §60.113b.

C. This facility is limited to the following production amounts:

i. A maximum of 316.5 x 10^6 gallons of 200° alcohol per 12-month rolling period.
ii. A maximum of 82.4 x 10^6 gallons of 200° alcohol per calendar quarter.
iii. A maximum of 332.3 x 10^6 gallons of completely denatured alcohol per 12-month rolling period.
iv. A maximum of 86.5 x 10^6 gallons of completely denatured alcohol per calendar quarter.

Authority for Requirement: LCPH ATI 4686 / PTO 5297
LCPH ATI 4687 / PTO 5298
LCO 10.9(2)(a)"40"
LCO 10.9(2)(a)"56"
567 IAC 23.1(2)"n"
567 IAC 23.1(2)"ddd"
40 CFR 60 Subpart VV
40 CFR 60 Subpart Kb

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Recordkeeping for NSPS Subpart VV shall be done according to 40 CFR §60.486.

B. Reporting for NSPS Subpart VV shall be done according to 40 CFR §60.487.

C. Recordkeeping for NSPS Subpart Kb shall be done according to 40 CFR §60.115b and 40 CFR §60.116b.

D. Reporting for NSPS Subpart Kb shall be done according to 40 CFR §60.115b.

E. Record the amount of 200° alcohol and completely denatured alcohol produced. Calculate and record monthly, calendar quarter and 12-month rolling totals.

Authority for Requirement: LCPH ATI 4686 / PTO 5297
LCPH ATI 4687 / PTO 5298
LCO 10.9(2)(a)"40"
LCO 10.9(2)(a)"56"
567 IAC 23.1(2)"n"
567 IAC 23.1(2)"ddd"
40 CFR 60 Subpart Kb
40 CFR 60 Subpart VV

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Alcohol-9.

			Stack Characteristics				
EP	**EU**	**LCPH ATI / PTO #**	**Stack Height (ft, above ground)**	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (scfm)**
SEP-073	EU-73	4686 / 5297	48	Horizontal	6 vents at 24" x 10"	80	Passive displacement
SEP-074	EU-74	4687 / 5298	32	Horizontal	4 vents at 24" x 10"	Ambient	Passive displacement

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

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-076
Process Area: ALCOHOL LOADOUT

Associated Equipment
Associated Emission Unit ID Numbers: EU-76
Emissions Control Equipment ID Number: CE-076
Emissions Control Equipment Description: Flare

Emission Unit vented through this Emission Point: EU-76A
Emission Unit Description: Alcohol Loadout
Raw Material/Fuel: Completely Denatured Alcohol
Rated Capacity: 270,000 gal/hr

Emission Unit vented through this Emission Point: EU-76B
Emission Unit Description: Alcohol Loadout Flare
Raw Material/Fuel: Natural Gas
Rated Capacity: 0.00276 MMscf/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity[2]
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 4689 / PTO 5017

Pollutant: Opacity[2]
Emission Limit(s): 40%
Authority for Requirement: DNR PSD Permit 04-A-314P

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P
567 IAC 23.3(2)"a"(2)
LCO 10.9(1)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.02 lb/hr, 0.09 tpy
Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: LCPH ATI 4689 / PTO 5017

DNR PSD Permit 04-A-314P
567 IAC 23.3(3)"e"
LCO 10.12(2)

Pollutant: Nitrogen Oxides (NOx)
Emission Limit(s): 0.15 lb/MMBtu, 4.05 lb/hr, 3.94 tpy
Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P

Pollutant: Volatile Organic Compounds (VOC)[1]
Emission Limit(s): 95% reduction, 4.82 lb/hr, 12.2 tpy
Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P

[1] All emission limitations (including operating parameter ranges and limits) apply at all times when the process equipment is operating, except, in the case of process equipment or pollution control systems, during previously planned startup and shutdown periods (including planned maintenance periods), and malfunctions as defined in 40 CFR Part 63. These startup and shutdown periods shall not exceed the minimum amount of time necessary for these events, and during these events, ADM shall minimize emissions to the extent practicable. To the extent practicable, startup and shutdown of pollution control systems will be performed during times when the process equipment is also shut down. Also, ADM shall to the extent practicable, control emissions during a malfunction event in a manner consistent with good air pollution control practice for minimizing emissions. *ADM Consent Decree, Cedar Rapids Control Technology Plan Section 7.0, Footnote 1.* Negotiated under United States v. ADM (C.D. IL, No. 03-CF-2066)
[2] An exceedance of the indicator opacity of **no visible emissions** will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR or Linn County may require additional proof to demonstrate compliance (e.g., stack testing).

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

Control Device:
A flare shall be used to control VOC emissions. 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 4689 / PTO 5017

NSPS and NESHAP Applicability:
This unit is subject to NSPS Subpart A, General Provisions, and Subpart VV, Standards of Performance for Equipment Leaks of VOC in Synthetic Organic Chemicals Manufacturing.

This unit is not subject to NESHAP requirements at this time.

Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P
LCO 10.9(2)(a) "40"
567 IAC 23.1(2) "n"
40 CFR 60 Subpart VV

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. This facility shall comply with the requirements of NSPS Subpart VV by meeting the standards of 40 CFR §60.482-1 through 40 CFR §60.485.

B. This facility is limited to the following production amounts:

   i. A maximum of 316.5 x 10^6 gallons of 200° alcohol per 12-month rolling period.

   ii. A maximum of 82.4 x 10^6 gallons of 200° alcohol per calendar quarter.

   iii. A maximum of 332.3 x 10^6 gallons of completely denatured alcohol per 12-month rolling period.

   iv. A maximum of 86.5 x 10^6 gallons of completely denatured alcohol per calendar quarter.

C. This flare shall be designed and operated to achieve a minimum of 95% reduction of VOC emissions from the rail and truck loadout operations.

D. This flare shall use only natural gas or propane as the auxiliary fuel.

Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P
LCO 10.9(2)(a) "40"
567 IAC 23.1(2) "n"
40 CFR 60 Subpart VV

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Recordkeeping for NSPS Subpart VV shall be done according to 40 CFR §60.486.

B. Reporting for NSPS Subpart VV shall be done according to 40 CFR §60.487.

C. The loadout flare shall be monitored continuously for the presence of the pilot flame. Loadout operations shall be discontinued any time the pilot flame is out.

D. Record the amount of 200° alcohol and completely denatured alcohol produced. Calculate and record monthly, calendar quarter and 12-month rolling totals.

E. Record the amount of natural gas and propane used in this flare. Calculate and record monthly and 12-month rolling totals.

Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P
LCO 10.9(2)(a) "40"

567 IAC 23.1(2) "n"
40 CFR 60 Subpart VV

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 72
Exhaust Temperature (°F): 1400
Exhaust Flow Rate (acfm): 61,000
Authority for Requirement: LCPH ATI 4689 / PTO 5017
DNR PSD Permit 04-A-314P

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

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

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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** ☒

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-250, SEP-251, SEP-252
Process Area: ALCOHOL

Table Alcohol-10. Associated Equipment.

EP	EU	EU Description	Raw Material / Fuel	Rated Capacity	CE Description
SEP-250	EU-250	Alcohol Collection Blower #1	Soil Vapor	212 acfm @ 100°F	None
SEP-251	EU-251	Alcohol Collection Blower #2	Soil Vapor	212 acfm @ 100°F	None
SEP-252	EU-252	Alcohol Collection Blower #3	Soil Vapor	212 acfm @100°F	None

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Alcohol-11. Emission Limits.

EP	EU	VOC	LCPH Permit #
SEP-250	EU-250	1.27 lb/hr	ATI 6505 / PTO 6334
SEP-251	EU-251	1.27 lb/hr	ATI 6506 / PTO 6335
SEP-252	EU-252	1.27 lb/hr	ATI 6507 / PTO 6336

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

There are no operating limits or recordkeeping requirements for this source.

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Alcohol-12.

EP	EU	LCPH ATI / PTO Numbers	Stack Characteristics				
			Stack Height (ft, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (acfm)
SEP-250	EU-250	6505/ 6334	13	Vertical, obstructed	2	100	212
SEP-251	EU-251	6506/ 6335	13	Vertical, obstructed	2	100	212
SEP-252	EU-252	6507/ 6336	13	Vertical, obstructed	2	100	212

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate

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

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-002
Process Area: STARCH

Table Starch-1. Associated Equipment.

EP	EU	EU Description	Raw Material / Fuel	Rated Capacity	CE ID	CE Description
SEP-002	EU-002A	Starch Drying – Spray Dryer	Starch Slurry	50,000 lb/hr	CE-002A CE-002B	Multivane Scrubber Multivane Scrubber
SEP-002	EU-002B	Starch Drying – Natural Gas	Natural Gas	0.05 MMCF/hr	CE-002A CE-002B	Multivane Scrubber Multivane Scrubber

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 10%
Authority for Requirement: LCPH ATI 3446 / PTO 3497

Pollutant: PM_{10}
Emission Limit(s): 2.0 lb/hr, 8.9 tpy
Authority for Requirement: LCPH ATI 3446 / PTO 3497

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1) "g"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

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

Control Device:
Two wet scrubbers operating in parallel shall be used to control particulate emissions. The control devices shall be operated at all times when any equipment controlled by the control device is operating. The control device shall be maintained on this source in a good operating condition at all times.

All appropriate probes and gauges needed to measure the parameters outlined in "Compliance Testing and Monitoring" shall be installed and maintained in a good operating condition.

Authority for Requirement: LCPH ATI 3446 / PTO 3497

Operating Limits:

A. This unit is not conditioned to anything less than the maximum operating capacity of the device.

   Dryer Design Rate: 50,000 lb/hr corn starch

   Dryer Design Rate: 50 MMBtu/hr

   Maximum Exhaust Airflow Rate: 125,000 dscfm

B. The water flow rate to the scrubbers shall be maintained at a minimum of 165 gallons per minute.

C. The dryer shall be limited to the production of common starch only and shall not be used for the production of modified starch.

D. The dryer shall burn only natural gas.

Authority for Requirement: LCPH ATI 3446 / PTO 3497

Compliance Testing and Monitoring Requirements:
The following information shall be monitored:

A. Monthly process rate for dryer

B. Monthly natural gas consumption

C. Daily pressure drop

D. Daily scrubber water flow rates

E. All monitors shall be easily accessible to air pollution personnel.

Authority for Requirement: LCPH ATI 3446 / PTO 3497

Recordkeeping Requirements:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Monthly process rate for dryer

B. Monthly natural gas consumption

C. Daily pressure drop readings

D. Daily scrubber water flow rate readings

E. Any changes in operation that would affect emissions, including changes in fan speed

F. Records of all maintenance and repair completed on the control device

Copies of test results shall be retained until a new approved representative test is conducted or for five years, whichever is longer.

These records shall be available on-site at all times for viewing by air pollution control personnel.

Authority for Requirement: LCPH ATI 3446 / PTO 3497

Reporting:
Submit quarterly emissions report summarizing the following items by the 15th of each month for the previous quarter.

A. Monthly average drying rate

B. Monthly natural gas consumption

Authority for Requirement: LCPH ATI 3446 / PTO 3497

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

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 >10 % 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.

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** ☒

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-003, SEP-004
Process Area: STARCH

Table Starch-2. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-003	EU-3	Starch Loadout #1	Dry Starch	180,000 lb/hr	CE-003	Baghouse
SEP-004	EU-4	Starch Loadout #2	Dry Starch	180,000 lb/hr	CE-004	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Starch-3. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-003 SEP-004	EU-3 EU-4	Opacity	20%	ATI 3557 / PTO 3498 ATI 3558 / PTO 3499 LCO 10.7
		PM_{10}	0.10 lb/hr, 0.44 tpy	ATI 3557 / PTO 3498 ATI 3558 / PTO 3499
		PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"

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

Control Device:
A baghouse shall be used to control particulate emissions. The control device shall be operated at all times when any equipment controlled by the control device is operating. The control device shall be maintained on this source in good operating condition at all times.

All appropriate probes and gauges needed to measure the parameters for compliance testing shall be installed and maintained in a good operating condition.

Authority for Requirement: LCPH ATI 3557 / PTO 3498
LCPH ATI 3558 / PTO 3499

Operating Limits:

A. This unit is not conditioned to anything less than the maximum operating capacity of the device.

B. Loadout rate: 180,000 lb/hr

C. Maximum exhaust airflow rate: 1579 scfm (1640 acfm)

Note: This source exhausts into an enclosed structure eliminating any potential uncontrolled release to the atmosphere.

Authority for Requirement: LCPH ATI 3557 / PTO 3498
LCPH ATI 3558 / PTO 3499

Recordkeeping Requirements:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Any changes in operation that would affect emissions, including changes in fan speed.

B. Records of all maintenance and repair completed on the control device.

C. Copies of test results shall be retained until a new approved representative test is conducted or for five years, whichever is longer.

D. These records shall be available on-site at all times for viewing by air pollution control personnel.

Authority for Requirement: LCPH ATI 3557 / PTO 3498
LCPH ATI 3558 / PTO 3499

<u>Monitoring Requirements</u>
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-007
Process Area: STARCH

Associated Equipment
Associated Emission Unit ID Numbers: EU-7
Emissions Control Equipment ID Number: CE-007
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-7
Emission Unit Description: Starch Transfer and Loadout
Raw Material/Fuel: Dry Starch
Rated Capacity: 50,000 lb/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 3559 / PTO 3500
LCO 10.7

Pollutant: PM_{10}
Emission Limit(s): 0.27 lb/hr, 1.18 tpy
Authority for Requirement: LCPH ATI 3559 / PTO 3500

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

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

Control Device:
A baghouse shall be used to control particulate emissions. The control device shall be operated at all times when any equipment controlled by the control device is operating. The control device shall be maintained on this source in a good operating condition at all times.

All appropriate probes and gauges needed to measure the parameters for compliance testing shall be installed and maintained in a good operating condition.

Authority for Requirement: LCPH ATI 3559 / PTO 3500

Operating Limits:

A. This unit is not conditioned to anything less than the maximum capacity of the device.

B. Loadout rate: 50,000 lb/hr

C. Maximum exhaust airflow rate: 2000 scfm

Authority for Requirement: LCPH ATI 3559 / PTO 3500

Compliance Testing and Monitoring Requirements:
The following information shall be monitored:

A. Daily pressure drop readings when operating

B. All monitors shall be easily accessible to air pollution personnel.

Authority for Requirement: LCPH ATI 3559 / PTO 3500

Recordkeeping Requirements:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.-

A. Daily pressure drop readings

B. Any changes in operation that would affect emissions, including changes in fan speed

C. Records of all maintenance and repair completed on the control device

Copies of test results shall be retained until a new approved representative test is conducted or for five years, whichever is longer.

These records shall be available on-site at all times for viewing by air pollution control personnel.

Authority for Requirement: LCPH ATI 3559 / PTO 3500

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

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-120, SEP-123, SEP-126, SEP-127, SEP-128, SEP-130

Process Area: MALTODEXTRIN

Table Maltodextrin-1. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-120	EU-120	Maltodextrin Storage Bin #6	Maltodextrin	6 ton/hr	CE-120	Baghouse
SEP-123	EU-123	Maltodextrin Storage Bin #5	Maltodextrin	6 ton/hr	CE-123	Baghouse
SEP-126	EU-126	Maltodextrin Storage Bin #4	Maltodextrin	6 ton/hr	CE-126	Baghouse
SEP-127	EU-127	Maltodextrin Storage Bin #3	Maltodextrin	6 ton/hr	CE-127	Baghouse
SEP-128	EU-128	Maltodextrin Storage Bin #2	Maltodextrin	6 ton/hr	CE-128	Baghouse
SEP-130	EU-130	Maltodextrin Storage Bin #1	Maltodextrin	6 ton/hr	CE-130	Baghouse

Applicable Requirements

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

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

Table Maltodextrin-2. Emission Limits.

EP	EU	Opacity	PM / PM-10	Permit #
SEP-120	EU-120	20%	0.015 gr/scf, 0.10 lb/hr	ATI 4513 / PTO 5076
SEP-123	EU-123	20%	0.015 gr/scf, 0.10 lb/hr	ATI 4514 / PTO 5077
SEP-126	EU-126	20%	0.015 gr/scf, 0.10 lb/hr	ATI 4515 / PTO 5078
SEP-127	EU-127	20%	0.015 gr/scf, 0.10 lb/hr	ATI 4516 / PTO 5079
SEP-128	EU-128	20%	0.015 gr/scf, 0.10 lb/hr	ATI 4517 / PTO 5080
SEP-130	EU-130	20%	0.015 gr/scf, 0.10 lb/hr	ATI 4518 / PTO 5081

Table Maltodextrin-3. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-120	EU-120	Opacity	20%	LCO 10.7
SEP-123 SEP-126 SEP-127 SEP-128 SEP-130	EU-123 EU-126 EU-127 EU-128 EU-130	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"

Operational Limits & Requirements

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

Control Device:

A baghouse shall be used to control particulate emissions. 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 4513 / PTO 5076
LCPH ATI 4514 / PTO 5077
LCPH ATI 4515 / PTO 5078
LCPH ATI 4516 / PTO 5079
LCPH ATI 4517 / PTO 5080
LCPH ATI 4518 / PTO 5081

Operating Limits:

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

A. All six bins combined (SEP-120, SEP-123, SEP-126, SEP-127, SEP-128, and SEP-130) shall not operate more than 8760 hours per year based on a 12-month rolling total.

Authority for Requirement: LCPH ATI 4513 / PTO 5076
LCPH ATI 4514 / PTO 5077
LCPH ATI 4515 / PTO 5078
LCPH ATI 4516 / PTO 5079
LCPH ATI 4517 / PTO 5080
LCPH ATI 4518 / PTO 5081

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 Linn County AQD and other federal or state air pollution regulatory agencies and/or their authorized representatives. Records shall be legible and maintained in an orderly manner. All monitors shall be easily accessible to air pollution personnel. These records shall show the following:

A. Non-resettable hour meters shall be installed on each bin.

B. During the first twelve (12) months of operation, determine the cumulative hours of operation for each bin for each month of operation.

C. After the first twelve (12) months of operation, determine the annual hours of operation on a rolling 12-month basis for each month of operation.

D. Daily pressure drop readings.

E. Records of all maintenance and repair complete on the control equipment.

F. Copies of test results shall be retained until a new approved representative test is conducted or for 5 years, whichever is longer.

Authority for Requirement: LCPH ATI 4513 / PTO 5076
LCPH ATI 4514 / PTO 5077
LCPH ATI 4515 / PTO 5078
LCPH ATI 4516 / PTO 5079
LCPH ATI 4517 / PTO 5080
LCPH ATI 4518 / PTO 5081

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Maltodextrin-4.

			Stack Characteristics				
EP	**EU**	**LCPH ATI / PTO Numbers**	**Stack Height (feet, above ground)**	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (scfm)**
SEP-120	EU-120	4513 / 5076	64	Downward	6	130-165	800
SEP-123	EU-123	4514 / 5077	64	Downward	6	130-165	800
SEP-126	EU-126	4515 / 5078	64	Downward	6	130-165	800
SEP-127	EU-127	4516 / 5079	64	Downward	6	130-165	800
SEP-128	EU-128	4517 / 5080	64	Downward	6	130-165	800
SEP-130	EU-130	4518 / 5081	64	Downward	6	130-165	800

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

Monitoring Requirements

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

Stack testing for PM/PM_{10} was successfully completed for emission point SEP-127 on February, 2005.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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** ☐
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☐ **No** ☒

[1] Facility O&M required for EP 120, 123, 126, 127, 128, and 130

Authority for Requirement: 567 IAC 22.108(3)

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-122
Process Area: MALTODEXTRIN

Table Maltodextrin-5. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-122	EU-122A	Maltodextrin Spray Dryer	Maltodextrin	5 tons/hr	CE-122A	Baghouse
SEP-122	EU-122B			0.04 MCF/hr	CE-122B	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Maltodextrin-6. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-122	EU-122A EU-122B	Opacity	20%	ATI 5330 / PTO 5585 LCO 10.7
		PM_{10}	2.06 lb/hr,	ATI 5330 / PTO 5585
		PM	2.06 lb/hr 0.1 gr/dscf	ATI 5330 / PTO 5585 567 IAC 23.4(7) LCO 10.9(1)"a"
		SO_2	0.02 lb/hr, 0.02 tpy 500 ppmv	ATI 5330 / PTO 5585 LCO 10.12(2)

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

Control Device:
Two baghouses shall be used to control particulate emissions. 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 5330 / PTO 5585

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The spray dryer shall be heated by natural gas or steam heat only.

B. Pressure drop across each baghouse shall be maintained between 0.5 to 10 inches of water.

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

Authority for Requirement: LCPH ATI 5330 / PTO 5585

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and/or their authorized representatives.

A. Pressure drop across each baghouse, CE-122A and CE-122B, shall be recorded on a daily basis while the control equipment is in operation.

B. The owner or operator shall monitor and record "no visible emissions" on a weekly basis.

C. Maintenance and repair completed on the control devices.

D. Copies of test results shall be retained until a new approved representative test is conducted for this emission point.

Authority for Requirement: LCPH ATI 5330 / PTO 5585

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 141
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 78
Exhaust Temperature (°F): 160
Exhaust Flow Rate (scfm): 65,000
Authority for Requirement: LCPH ATI 5330 / PTO 5585

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

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

Stack Testing:

Pollutant – PM_{10}
1st Stack Test to be Completed within the first two years of permit term
Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter
1st Stack Test to be Completed within the first two years of permit term

Test Method: 40 CFR 60, Appendix A, Method 5 and
40 CFR Part 51, Appendix M, Method 202
Authority for Requirement – 567 IAC 22.108(3)

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)

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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** ☒[1]

[1] Compliance Assurance Monitoring plan has been waived. PTO 5585 has CAM equivalent monitoring required.

Emission Point ID Number: SEP-124
Process Area: MALTODEXTRIN

Table Maltodextrin-7. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-124	EU-124	Maltodextrin Packaging Transfer Line	Maltodextrin	24 ton/hr	CE-124	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Maltodextrin-8. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-124	EU-124	Opacity	20%	ATI 5025 / PTO 5320 LCO 10.7
		PM_{10}	0.31 lb/hr	ATI 5025 / PTO 5320
		PM	0.31 lb/hr 0.1 gr/dscf	ATI 5025 / PTO 5320 567 IAC 23.4(7) LCO 10.9(1)"a"

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 used to control particulate emissions. The control device 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 5025 / PTO 5320

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

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

B. Pressure drop across the baghouse, CE-124, shall be maintained between 0.3 to 6 inches of water.

Authority for Requirement: LCPH ATI 5025 / PTO 5320

Operating Condition Monitoring and Recordkeeping:

A. Pressure drop readings across the baghouse, CE-124, shall be recorded on a daily basis while the control equipment is in operation.

B. Monitor and record "no visible emissions" observations on a weekly basis. An exceedance of the indicator opacity of **no visible emissions** will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance.

C. Record all maintenance and repair completed to the control equipment.

D. Retain copies of emission test results for compliance testing completed on this emission source.

If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5025 / PTO 5320

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 43
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, dia.): 12
Exhaust Temperature (°F): 155
Exhaust Flow Rate (acfm): 5,400
Authority for Requirement: LCPH ATI 5025 / PTO 5320

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

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-125
Process Area: MALTODEXTRIN

Associated Equipment
Associated Emission Unit ID Numbers: EU-125
Emissions Control Equipment ID Number: CE-125
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-125
Emission Unit Description: Maltodextrin Vacuum / Reprocess System
Raw Material/Fuel: Maltodextrin
Rated Capacity: 1000 scfm

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 3980 / PTO 4033
LCO 10.7

Pollutant: PM_{10}
Emission Limit(s): 0.09 lb/hr, 0.38 tpy
Authority for Requirement: LCPH ATI 3980 / PTO 4033

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

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

Control Device:
A baghouse shall be used to control particulate emissions. The control device shall be operated at all times when any equipment controlled by the control device is operating. The control device shall be maintained on this source in a good operating condition at all times.

All appropriate probes and gauges needed to measure the parameters outlined in "Monitoring Requirements" shall be installed and maintained in a good operating condition.

Authority for Requirement: LCPH ATI 3980 / PTO 4033

Operating Limits:
This source shall be limited to 5865 hours of operation calculated on a 12-month rolling sum.

The airflow rate as it associates to emission calculated for this source has been limited to 1000 scfm. Any increase in airflow may necessitate a new Permit to Operate.

Authority for Requirement: LCPH ATI 3980 / PTO 4033

Monitoring Requirements:
The following information shall be monitored:

A. Monthly hours of operation from a non-resettable hour meter.

B. Daily pressure drop readings when operating.

C. All monitors shall be easily accessible to air pollution personnel.

Authority for Requirement: LCPH ATI 3980 / PTO 4033

Recordkeeping Requirements:
A log of operation shall be maintained for the above-listed unit. The following information shall be recorded and kept on-site for a period of no less than five years.

A. Hours of operation calculated on a 12-month rolling sum.

B. Daily pressure drop readings.

C. Record of maintenance and repair completed on the control device.

These records shall be available on-site at all times for viewing by air pollution control personnel.

Authority for Requirement: LCPH ATI 3980 / PTO 4033

Reporting:
Submit an annual report summarizing the hours of operation based on a 12-month rolling sum.

Submit excess emission reports as required in Linn County Ordinance, Chapter 10, Section 14.

Authority for Requirement: LCPH ATI 3980 / PTO 4033

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

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-129
Process Area: MALTODEXTRIN

Table Maltodextrin-9. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-129	EU-129	Maltodextrin Packaging System	Maltodextrin	27 ton/hr	CE-129	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Maltodextrin-10. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-129	EU-129	Opacity	20%	ATI 5026 / PTO 5321 LCO 10.7
		PM_{10}	0.73 lb/hr	ATI 5026 / PTO 5321
		PM	0.73 lb/hr 0.1 gr/dscf	ATI 5026 / PTO 5321 567 IAC 23.4(7) LCO 10.9(1)"a"

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 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: LPCH ATI 5026 / PTO 5321

Operating Limits:

A. Pressure drop across the baghouse, CE-129, shall be maintained between 0.3 to 14 inches of water.

B. The emission point shall be limited to packaging 420,480, 000 pounds of maltodextrin per year.

Authority for Requirement: LCPH ATI 5026 / PTO 5321

Operating Condition Monitoring and Recordkeeping:
Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized

reporesentatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

A. Pressure drop readings across the baghouse, CE-129, shall be recorded on a daily basis while the control equipment is in operation.

B. Record process rate on a 12-month rolling total 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. Record all maintenance and repair completed to the control equipment.

E. Retain copies of emission test results for compliance testing completed on this emission source.

Authority for Requirement: LCPH ATI 5026 / PTO 5321

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 110
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 20
Exhaust Temperature (°F): 71
Exhaust Flow Rate (scfm): 9684
Authority for Requirement: LCPH ATI 5026/ PTO 5321

The temperature and flow rate 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 design characteristics are different than the values stated above, the owner/operator shall submit a request to the Department within thirty (30) days of discovery to determine if a permit amendment isrequired 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 is not required at this time.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-153
Process Area: FRUCTOSE

Table Fructose-1. Table Fructose. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE Description
SEP-153	EU-153	Fructose East MR Evaporator Vent	Dextrose	39,000 gallons/hr	None

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Fructose-2. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-153	EU-153	SO_2	0.10 lb/hr 500 ppmv	ATI 5681 / PTO 5478 LCO 10.7

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

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The operation of this emission unit(s) while operating on stillage is prohibited. The use of stillage would necessitate the owner or operator to apply for an authorization to install permit prior to this modification.

Authority for Requirement: LCPH ATI 5681 / PTO 5478

Recordkeeping Requirements:
There are no recordkeeping requirements for this source at this time.

Authority for Requirement: LCPH ATI 5681 / PTO 5478

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 55
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, dia.): 6
Exhaust Temperature (°F): 192
Exhaust Flow Rate (acfm): 25
Authority for Requirement: LCPH ATI 5681 / PTO 5478

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the

temperature or flow rate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-034, SEP-114

Process Area: SYRUP / REFINERY

Table Refinery-1. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-034	EU-34A	Carbon Furnace	Spent Carbon	3333 lb/hr	CE-034A	Sly Venturi Impingejet Scrubber, Zero Hearth
SEP-034	EU-34B	Carbon Furnace – Natural Gas	Natural Gas	23 MMBtu/hr	CE-034B	
SEP-114	EU-114A	Carbon Furnace #2	Spent Carbon	3333 lb/hr	CE-114A	Sly Venturi Impingejet Scrubber, Zero Hearth
SEP-114	EU-114B	Carbon Furnace #2 – Natural Gas	Natural Gas	23 MMBtu/hr	CE-114B	

Applicable Requirements

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

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

Table Refinery-2. Emission Limits

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-034 SEP-114	EU-34 EU-114	Opacity	20%	ATI 4664 / PTO 5082 ATI 4665 / PTO 5083 LCO 10.7
		PM_{10}[1]	1.61 lb/hr, 0.033 gr/dscf	ATI 4664 / PTO 5082 ATI 4665 / PTO 5083
		PM[1]	1.61 lb/hr, 0.033 gr/dscf	ATI 4664 / PTO 5082 ATI 4665 / PTO 5083
		SOx[1]	4.49 lb/hr	ATI 4664 / PTO 5082 ATI 4665 / PTO 5083
		NOx[1]	4.49 lb/hr	ATI 4664 / PTO 5082 ATI 4665 / PTO 5083
		VOC[1]	4.49 lb/hr	ATI 4664 / PTO 5082 ATI 4665 / PTO 5083
		CO[1]	11.34 lb/hr	ATI 4664 / PTO 5082 ATI 4665 / PTO 5083

[1] Emissions are limited to maintain synthetic minor status for the project. Project emissions include the installation of two carbon furnaces (EP 034 and 114).

Operational Limits & Requirements

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

Control Device:
A Venturi scrubber shall be used to control particulate and sulfur dioxide emissions. The zero hearth furnace afterburner shall be used to control volatile organic compounds (VOC) and carbon monoxide (CO) emissions. 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 4664 / PTO 5082
LCPH ATI 4665 / PTO 5083

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. Re-circulation water to the scrubber shall be greater than 350 gallons per minute.

B. pH of the scrubbing liquor shall be maintained above 5.

C. This unit shall burn natural gas only.

Authority for Requirement: LCPH ATI 4664 / PTO 5082
LCPH ATI 4665 / PTO 5083

Operating Condition Monitoring and Recordkeeping:
The following shall be monitored and recorded:

A. Daily pressure drop readings.

B. Daily scrubber water re-circulation rate.

C. Daily scrubber pH.

D. Visible emissions shall be observed on a weekly basis to ensure that no visible emissions occur during material handling of the unit.

E. Maintenance and repair completed to the control unit.

F. Maintain copies of source test results until a new approved representative test is conducted or for five (5) years, whichever is longer.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 4664 / PTO 5082
LCPH ATI 4665 / PTO 5083

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Refinery-3.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (scfm)
SEP-034	4664 / 5082	110	Vertical, unobstructed	27	160	5700
SEP-114	4665 / 5083	90	Vertical, unobstructed	30	160	5700

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

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

Stack Testing:
EP 034 - Pollutant – CO
1st Stack Test to be Completed within the first two years of permit term
Test Method – Method 10 (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

EP 114 - Pollutant – CO
1st Stack Test to be Completed within the first two years of permit term
Test Method – Method 10 (40 CFR 60) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒[2] **No** ☐

[1]Facility O&M for Venturi Scrubber PM/PM_{10} control is required for EP 034 and EP 114.
[2] CAM for Zero Hearth CO control is required for both EP 034 and EP 114. See Appendix B.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-112
Process Area: SYRUP / REFINERY

Associated Equipment
Associated Emission Unit ID Numbers: EU-112
Emissions Control Equipment ID Number: CE-112
Emissions Control Equipment Description: Refinery Acid Tank Scrubber

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Emission Unit vented through this Emission Point: EU-112
Emission Unit Description: Refinery Acid Tank Scrubber System
Raw Material/Fuel: 35% Hydrochloric Acid
Rated Capacity: 900 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 4490 / PTO 4701
LCO 10.7

Pollutant: PM_{10}
Emission Limit(s): 0.16 lb/hr
Authority for Requirement: LCPH ATI 4490 / PTO 4701

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf, 0.16 lb/hr
Authority for Requirement: LCPH ATI 4490 / PTO 4701
567 IAC 23.4(7)
LCO 10.9(1)"g"

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

Control Device:
A packed scrubber shall be used to control particulate matter emissions. 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 4490 / PTO 4701

Operating Limits:
Throughput through the tanks shall be limited to 900 gallons per hour (7,884,000 gallons per year) for all tanks combined.

Tanks shall not be removed or added without obtaining the proper permits (if required).

Authority for Requirement: LCPH ATI 4490 / PTO 4701

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Annual acid throughput calculated on a 12-month rolling total.

Records of all maintenance and repair completed to the scrubber.

Authority for Requirement: LCPH ATI 4490 / PTO 4701

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 45
Discharge Style: Vertical
Stack Opening, (inches, diameter): 8
Exhaust Temperature (°F): 90
Exhaust Flow Rate (scfm): 200
Authority for Requirement: LCPH 4490 / PTO 4701

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

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

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

Authority for Requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-387
Process Area: SYRUP / REFINERY

Associated Equipment
Associated Emission Unit ID Numbers: EU-387
Emissions Control Equipment ID Number: CE-387
Emissions Control Equipment Description: Refinery Heavy Steepwater Tank

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Emission Unit vented through this Emission Point: EU-387
Emission Unit Description: Refinery Heavy Steepwater Tank
Raw Material/Fuel: Heavy Steepwater
Rated Capacity: 21000 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: SO_2
Emission Limit(s): 0.08 lb/hr
Authority for Requirement: LCPH ATI 4842 / PTO 6125

Pollutant: SO_2
Emission Limit(s): 500 ppmv
Authority for Requirement: LCPH ATI 4842 / PTO 6125
LCO 10.12(2)

Pollutant: VOC
Emission Limit(s): 0.20 lb/hr
Authority for Requirement: LCPH ATI 4842 / PTO 6125

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 42
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 8
Exhaust Temperature (°F): 134
Exhaust Flow Rate (acfm): 47
Authority for Requirement: LCPH 4842 / PTO 6125

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

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-091, SEP-092, SEP-093, SEP-094, SEP-097, SEP-516, SEP-540

Process Area: UTILITIES

Table Utilities-1. Emission Point IDs.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
SEP-091	EU-91	Dry Starch Diesel Generator	Diesel Fuel	44.8 gal/hr
SEP-092	EU-92	#3 Cooling Tower Emergency Generator	Diesel Fuel	49.4 gal/hr
SEP-093	EU-93	Alcohol / Waste Treatment Emergency Generator	Diesel Fuel	44.8 gal/hr
SEP-094	EU-94	Fructose Emergency Generator	Diesel Fuel	19 gal/hr
SEP-097	EU-97	Boiler Room #2 Emergency Diesel Generator	Diesel Fuel	44.8 gal/hr
SEP-516	EU-516	Co-Gen Emergency Generator	Diesel Fuel	42.4 gal/hr
SEP-540	EU-540	Co-Gen 2 Emergency Diesel Generator	Diesel Fuel	59.2 gal/hr

Applicable Requirements

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

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

Table Utilities-2. Emission Limits.

EP	Opacity	PM_{10}*	PM*	SO_2*	NOx*	ATI / PTO #
SEP-091	20%	0.86 lb/hr	0.1 gr/dscf, 0.86 lb/hr	3.10 lb/hr	19.64 lb/hr	4706 / 4847
SEP-092	20%	0.95 lb/hr	0.1 gr/dscf, 0.95 lb/hr	3.42 lb/hr	21.66 lb/hr	4707 / 4848
SEP-093	20%	0.86 lb/hr	0.1 gr/dscf, 0.86 lb/hr	3.10 lb/hr	19.64 lb/hr	4708 / 4849
SEP-094	20%	0.81 lb/hr	0.1 gr/dscf 0.81 lb/hr	0.75 lb/hr	11.48 lb/hr	4709 / 4850
SEP-097	20%	0.86 lb/hr	0.1 gr/dscf, 0.86 lb/hr	3.10 lb/hr	19.64 lb/hr	4710 / 4851
SEP-516	20%	0.86 lb/hr	0.1 gr/dscf, 0.86 lb/hr	2.93 lb/hr	18.59 lb/hr	4711 / 4852
SEP-540	20%	1.14 lb/hr	0.1 gr/dscf, 1.14 lb/hr	4.10 lb/hr	25.95 lb/hr	4712 / 4853

*Emission rate used to demonstrate no exceedance of the National Ambient Air Quality Standards (NAAQS).

Table Utilities-3. General Emission Limits.

EP	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-091 SEP-097 SEP-092 SEP-516 SEP-093 SEP-540 SEP-094	Opacity	20%	LCO 10.7
	PM	0.1 gr/dscf	567 IAC 23.3(2)”a”(2) LCO 10.9(1)"a"

<u>Operational Limits & Requirements</u>

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

Operating Limits:

A. This emission unit shall not operate more than 500 hours in any rolling twelve-month period.

B. This emission unit shall operate on #1 or #2 distillate fuel only.

C. The sulfur content of the fuel oil shall not exceed 0.5 percent by weight.

Authority for Requirement: LCPH ATI 4706 / PTO 4847
LCPH ATI 4707 / PTO 4848
LCPH ATI 4708 / PTO 4849
LCPH ATI 4709 / PTO 4850
LCPH ATI 4710 / PTO 4851
LCPH ATI 4711 / PTO 4852
LCPH ATI 4712 / PTO 4853

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 inspections by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Maintain records clearly showing the type of fuel utilized and the sulfur content of that fuel.

B. Record the hours of operation for the emission unit for each month of operation.

C. The annual hours of operation for the emission unit shall be updated on a 12-month rolling basis, for each month of operation.

Authority for Requirement: LCPH ATI 4706 / PTO 4847
LCPH ATI 4707 / PTO 4848
LCPH ATI 4708 / PTO 4849
LCPH ATI 4709 / PTO 4850
LCPH ATI 4710 / PTO 4851
LCPH ATI 4711 / PTO 4852
LCPH ATI 4712 / PTO 4853

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Utilites-4.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (acfm)
SEP-091	4706 / 4847	30	Vertical, unobstructed	10	650	5018
SEP-092	4707 / 4848	29	Vertical, unobstructed	10	650	6536
SEP-093	4708 / 4849	34	Vertical, unobstructed	8	650	5018
SEP-094	4709 / 4850	50	Vertical, unobstructed	8	650	2358
SEP-097	4710 / 4851	44	Vertical, unobstructed	11	650	5018
SEP-516	4711 / 4852	12	Vertical, unobstructed	10	650	3669
SEP-540	4712 / 4853	12	Vertical, unobstructed	8	964	6879

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

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-170
Process Area: UTILITIES

Table Utilities-5. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE Description
SEP-170	EU-170A	Fructose Cooling Tower #2 Cell A	Water	750,000 gal/hr	Drift Eliminator
SEP-170	EU-170B	Fructose Cooling Tower #2 Cell B	Water	750,000 gal/hr	Drift Eliminator
SEP-170	EU-170C	Fructose Cooling Tower #2 Cell C	Water	750,000 gal/hr	Drift Eliminator
SEP-170	EU-170D	Fructose Cooling Tower #2 Cell D	Water	750,000 gal/hr	Drift Eliminator
SEP-170	EU-170E	Fructose Cooling Tower #2 Cell E	Water	750,000 gal/hr	Drift Eliminator

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Utilities-6. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-170	EU-170	Opacity	20%	ATI 5550 / PTO 5767 LCO 10.7
		PM_{10}	0.57 lb/hr	ATI 5550 / PTO 5767
		PM	0.1 gr/dscf	ATI 5550 / PTO 5767 567 IAC 23.4(7) LCO 10.9(1)"a"

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

NSPS and NESHAP Applicability:
The National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart Q National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers shall apply to this source pursuant to LCO 10.9(4)"q" and 567 IAC 23.1(4)"q".

Authority for Requirement: LCPH ATI 5550 / PTO 5767

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The circulating water in the cooling tower shall not exceed 2500 parts per million by weight (ppmw) (2500 mg/L) total dissolved solids (TDS).

B. Chromium based or VOC containing water treatment chemicals shall not be used in these emission units.

C. The owner or operator shall maintain the cooling tower drift eliminators according to manufacturer's specification, instructions and maintenance schedule.

Authority for Requirement: LCPH ATI 5550 / PTO 5767

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall complete an analysis of the TDS of the water in the cooling tower at least once for each calendar month this emission unit is in operation.

B. The owner or operator shall maintain a record of the manufacturer's drift loss guarantee for the cooling tower drift eliminators.

C. Maintain a material safety data sheet of all water treatment chemicals used.

D. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the cooling tower.

Authority for Requirement: LCPH ATI 5550 / PTO 5767

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 42
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, dia.): 408
Exhaust Temperature (°F): 80
Exhaust Flow Rate (acfm): 4 cells @ 1,186,751 acfm per cell; 1 cell at 1,171,570 acfm per cell
Authority for Requirement: LCPH ATI 5550 / PTO 5767

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

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EU-095, EU-096, EU-517, EU-518

Process Area: UTILITIES

Table Utilities-7. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE Description
	EU-095	North Corn Plant Diesel Fire Pump	Diesel	302 hp	None
	EU-096	South Corn Plant Diesel Fire Pump	Diesel	302 hp	None
	EU-517	East Co-Gen Diesel Fire Pump	Diesel	340 hp	None
	EU-518	West Co-Gen Diesel Fire pump	Diesel	340 hp	None

Applicable Requirements

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/scf
Authority for Requirement: 567 IAC 23.3(2)"a"
LCO 10.9(1)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Pollutant: Sulfur Dioxide (SO2)
Emission Limit(s): 1.5 lb/MMBtu
Authority for Requirement: LCO 10.12(1)"b"

Operational Limits & Requirements

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

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Reporting & Recordkeeping:
The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 22.108(3)

NSPS and NESHAP Applicability:
The National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, shall apply to this source pursuant to LCO 10.9(4)"zzzz" and 567 IAC 23.1(4)"cz".

Existing, Compression, Emergency ≤ 500 hp, at a Major HAP Source

NESHAP
The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR §63.6590(a)(1)(ii) this compression ignition emergency engine, located at a major source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

Compliance Date
Per §63.6595(a)(1), you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR §63.6602, §63.6625, §63.6640 and Tables 2c and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See §63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR §63.6640(f)

1. Any operation other than emergency operation, maintenance and testing and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR §63.6640(f)(2) for additional information and restrictions.

4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR §63.6655

1. Keep records of the maintenance conducted on the stationary RICE.
2. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. See 40 CFR §63.6655(f) for additional information.

Notification and Reporting Requirements 40 CFR §63.6645, §63.6650 and Table 2c to Subpart ZZZZ

1. An initial notification is not required per 40 CFR §63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)

Authority for Requirement: 40 CFR Part 63, Subpart ZZZZ
567 IAC 23.1(4)"cz"
LCO 10.9(4)"zzzz"

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-459, SEP-460

Process Area: COGENERATION

Table Co-Gen 1. Associated Equipment.

EP	EU	EU Description	Raw Material /Fuel	Rated Capacity	CE	CE Description
SEP-459	EU-459	Natural Gas Fired Boiler #3	Natural Gas	292.5 MMBtu/hr	CE-459	Advanced Ultra-Low NOx Burners with FGR
SEP-460	EU-460	Natural Gas Fired Boiler #2	Natrual Gas	292.5 MMBtu/hr	CE-460	Advanced Ultra-Low NOx Burners with FGR

Applicable Requirements

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

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

Table Co-Gen 2. Opacity and Particulate Matter Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Authority for Requirement
SEP-459 SEP-460	EU-459 EU-460	0%[1]	0.005 lb/MMBtu[2] 1.46 lb/hr[2,4]	0.005 lb/MMBtu[2]	DNR PSD Permit #07-A-579-P DNR PSD Permit #07-A-580-P
				0.030 lb/MMBtu[3]	40 CFR §60.43b Subpart Db

Table Co-Gen 3. Sulfur Dioxide Emission Limits.

EP	EU	SO_2	Authority for Requirement
SEP-459 SEP-460	EU-459 EU-460	0.0006 lb/MMBtu[5] 0.17 lb/hr[2,4]	DNR PSD Permit #07-A-579-P DNR PSD Permit #07-A-580-P
		0.20 lb/MMbtu[6]	40 CFR §60.42b Subpart Db

Table Co-Gen 4. Nitrogen Oxides and Carbon Monoxide Emission Limits.

EP	EU	NO_X	CO	Authority for Requirement
SEP-459 SEP-460	EU-459 EU-460	0.02 lb/MMBtu[5,7] 25.62 tpy[8] 5.85 lb/hr[2,4]	0.072 lb/MMBtu[5,7] and 92.24 tpy[8] 21.06 lb/hr[2,4]	DNR PSD Permit #07-A-579-P DNR PSD Permit #07-A-580-P
		0.20 lb/MMBtu[6,9]		40 CFR §60.44b Subpart Db
			400 ppm_{vd}[10]	40 CFR §63.7500 Subpart DDDDD

Table Co-Gen 5. Other Emission Limits.

EP	EU	VOC	Authority for Requirement
SEP-459 SEP-460	EU-459 EU-460	0.0054 lb/MMBtu[2]	DNR PSD Permit #07-A-579-P DNR PSD Permit #07-A-580-P

Table Co-Gen 6. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-459 SEP-460	EU-459 EU-460	Opacity	40%	567 IAC 23.3(2)"d"
			20%	LCO 10.7
		PM	0.6 lb/MMBtu	567 IAC 23.3(2)"b"(2)
			0.275 lb/MMBtu	LCO 10.8(2)"b"
		SO_2	500 ppm_v	567 IAC 23.3(3)"e" LCO 10.12(2)

[1] Standard is expressed as a six-minute average.
[2] Standard is expressed as the average of 3 test runs.
[3] Standard is expressed as the average of 3 test runs and applies at all times, excluding periods of startup, shutdown, and malfunction. Per 40 CFR §60.43b(h)(5), if the boilers combust only gaseous fuels with potential sulfur dioxide emission rates of 0.32 lb/MMBtu heat input or less, they are not subject to the PM limit listed above.
[4] The limit for PM_{10} emissions is established to limit emissions below levels that predict exceedances of the 24-hour NAAQS, the 24-hour increment, and the annual increment for PM_{10}. The limit for SO_2 emissions is established to limit emissions below levels that predict exceedances of the 3-hour, 24-hour, and annual NAAQS and increment for SO_2. The limit for NO_X emissions is established to limit emissions below levels that predict exceedances of the annual NAAQS and increment for NO_X. The limit for CO emissions is established to limit emissions below levels that predict exceedances of the 1-hour and 8-hour NAAQS for CO.
[5] Standard is expressed as a 30-day rolling average.
[6] Standard is expressed as a 30-day rolling average and applies at all times, including periods of startup, shutdown, and malfunction.
[7] The NO_X and CO pound per million Btu standards apply at all times, except during periods of startup, shutdown, or malfunction.
[8] The NO_X and CO ton per year standards are expressed as a 12-month rolling total and apply at all times, including during periods of startup, shutdown, or malfunction.
[9] The boilers may comply with an optional limit of 270 ng/J (2.1 lb/MWh) gross energy output, based on a 30-day rolling average. Units complying with this output-based limit must demonstrate compliance according to the procedures of 40 CFR §60.48Da(i), and must monitor emissions according to 40 CFR §60.49Da(c), and (k) through (n).
[10] Standard is a 30-day rolling average, corrected to 3% O_2, and applies at all times, except during periods of startup, shutdown, malfunction, and when your boilers or process heater is operating at less than 50% of rated capacity.

Operational Limits & Requirements

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

Control Device:

Advanced ultra-low NO_X burners with flue gas recirculation will be used to reduce nitrogen oxide emissions. 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 devices at all times.

Authority for Requirement: LCPH ATI 5238 / PTO 5789
LCPH ATI 5239 / PTO 5790

NSPS and NESHAP Applicability:

This emission unit is subject to Subpart A - General Provisions (40 CFR §60.1 through 40 CFR §60.19) of the New Source Performance Standards (NSPS) and Subpart Db - Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units (40 CFR §60.40b through 40 CFR §60.49b) and is also subject to the requirements of 567 IAC 23.1(2)"ccc".

As provided in 40 CFR §63.7480 through 40 CFR §63.7570, this emission unit is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart DDDDD - Industrial, Commercial, and Institutional Boilers and Process Heaters as a new large gaseous fuel unit with a heat input greater than 100 MMBtu/hr. This emission unit is also subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) and is also subject to the requirements of 567 IAC 23.1(4)"dd".

Authority for Requirement: DNR PSD Permit #07-A-579-P
DNR PSD Permit #07-A-580-P

Operating Limits:

A. The owner or operator shall furnish the Department with final detailed plans and specifications for all emission control equipment selected by the owner to meet the emission limits contained in **Tables Co-Gen 2, 3, 4, 5, and 6**. In addition, the facility shall detail all revisions made to the affected emission units and provide a startup, shutdown, and malfunction plan (SSMP) for the emission unit and control device. This information shall be submitted to the Department at least 30 days in advance of construction of any control equipment.

B. The owner or operator shall operate and maintain Boilers #3 and #2 and all control equipment according to the provisions in 40 CFR §63.6(e).

C. The owner or operator shall develop and implement a written startup, shutdown, and malfunction plan (SSMP) for Boilers #3 and #2, according to the provisions in 40 CFR §63.6(e).

D. Boilers #3 and #2 shall be limited to firing on natural gas only.

Authority for Requirement: DNR PSD Permit #07-A-579-P
DNR PSD Permit #07-A-580-P

Operating Condition Monitoring:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall maintain records of fuel supplier certifications of sulfur content reported in pounds per million Btu of the fuels burned in Boilers #3 and #2. The facility shall request monthly fuel certification from the vendor unless the certification of the sulfur content from the previous month did not change. The owner or operator shall maintain a record of the date they contacted the vendor to determine if the certification is still valid. The facility shall request a new certification if the previous month's certification of the sulfur content is no longer representative of the boilers' combusted fuel. The facility may use preliminary data available from the vendor to determine the sulfur content of the fuel. If the preliminary data indicate that the sulfur content is within 90% of the emission limit established in Permit Condition 10a, the facility shall request a formal certification from the supplier of the sulfur content of the fuel.

B. The owner or operator shall follow the notification, recordkeeping, and reporting requirements of 40 CFR §60.49b and 40 CFR §63.7550.

C. The owner or operator of an affected facility subject to the nitrogen oxides standards under 40 CFR §60.44b shall maintain records of the following information for each steam generating unit operating day:

1) Calendar date.

2) The average hourly nitrogen oxides emission rates (expressed and NO2) (ng/J or lb/MMBtu heat input) measured or predicted.

3) The 30-day average nitrogen oxides emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.

4) Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emission standards under 40 CFR §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken.

5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.

6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.

7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.

8) Identification of the times when the pollutant concentration exceed full span of the continuous monitoring system.

9) Description of any modifications to the continuous monitoring system that could affect the ability of the continuous monitoring system to comply with Performance Specification 2 or 3.

10) Results of daily CEMS drift tests and quarterly accuracy assessments, as required under 40 CFR §60, Appendix F, Procedure 1.

D. The owner or operator shall maintain records of monthly fuel use by Boilers #3 and #2, including the type of fuel and amount according to 40 CFR §63.7555 and 40 CFR §63.7560.

E. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR PSD Permit #07-A-579-P
DNR PSD Permit #07-A-580-P

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Co-Gen 7.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (scfm)**
SEP-459	5238 / 5789	75	Vertical, unobstructed	78	294	72,000
SEP-460	5239 / 5790	75	Vertical, unobstructed	78	294	72,000

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

Monitoring Requirements

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

Stack Testing:

The following stack tests shall be performed:

Pollutant – Volatile Organic Compounds (VOC)[1]
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 25A (40 CFR Part 60, Appendix A)
Authority for Requirement – 567 IAC 22.108(3)

[1] ADM may choose to perform the required tests on either Natural Gas Fired Boiler #3 or #2. One set of tests may be used to represent emissions and compliance from both Natural Gas Fired

Boilers #3 and #2. If the test results for any pollutant are 90% or above of the applicable standard, additional testing of both boilers shall be required. A test protocol must be approved by the Department's stack testing personnel prior to testing.

Opacity Monitoring:
Opacity monitoring is not required at this time.

Continuous Emission Monitoring:
Per 40 CFR §60.48b, the owner or operator shall demonstrate compliance with the nitrogen oxide emission limits of this permit through the use of a continuous emission monitoring system (CEMS). The facility shall install, calibrate, maintain, and operate a CEMS for measuring nitrogen oxides emissions discharged to the atmosphere. CEMS shall be installed, evaluated, operated, and date collected, as required under 40 CFR §60.48b(c), (d), (e), and (f).

Per 40 CFR §63.7525, the owner or operator shall demonstrate compliance with the carbon monoxide emission limits of this permit through the use of a CEMS. The facility shall install, operate, and maintain a CEMS for carbon monoxide and oxygen, as required under 40 CFR §63.7525(a)(1) through (a)(6).

The CEMS required by this permit shall be operated and data recorded during all periods of operation of the boilers, except for CEMS breakdown and repairs. Data shall be recorded during calibration checks, and zero and span adjustments.

Authority for Requirement: DNR PSD Permit #07-A-579-P
DNR PSD Permit #07-A-580-P

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☒ **No** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-501
Process Area: COGENERATION

Table Co-Gen 8. Emission Point Description.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
SEP-501	EU-501A	Co-Gen Boiler #1	Coal	551.50 MMBtu/hr
SEP-501	EU-501AN	Co-Gen Boiler #1	Natural Gas	0.22 MMCF/hr
SEP-501	EU-501BF	Co-Gen Boiler #1	Fuel Oil	
SEP-501	EU-501B	Co-Gen Boiler #2	Coal	551.50 MMBtu/hr
SEP-501	EU-501BN	Co-Gen Boiler #2	Natural Gas	0.22 MMCF/hr
SEP-501	EU-501BF	Co-Gen Boiler #2	Fuel Oil	

Table Co-Gen 9. Associated Equipment.

EP	EU	CE ID	CE Description	ME ID
SEP-501	EU-501A	CE-501A CE-501C	Co-gen Boiler #1 Baghouse Limestone Injection SNCR	ME-501A, ME-501C, ME-501D, ME-501F, ME-501H, ME-501I
SEP-501	EU-501AN	CE-501A CE-501C	Co-gen Boiler #1 Baghouse Limestone Injection SNCR	ME-501A, ME-501C, ME-501D, ME-501F, ME-501H, ME-501I
SEP-501	EU-501B	CE-501B CE-501D	Co-gen Boiler #2 Baghouse Limestone Injection SNCR	ME-501B, ME-501C, ME-501E, ME-501G, ME-501H, ME-501I
SEP-501	EU-501BN	CE-501B CE-501D	Co-gen Boiler #2 Baghouse Limestone Injection SNCR	ME-501B, ME-501C, ME-501E, ME-501G, ME-501H, ME-501I

Applicable Requirements

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

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

Table Co-Gen 10. Opacity Emission Limits.

EP	Opacity	Authority for Requirement
SEP-501	20%, 6-minute average except for one 6-minute period per hour of not more than 27%	40 CFR §60.43b(f) Subpart Db 40 CFR §60.46b(a) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)
SEP-501	20%	LCO 10.7

Table Co-Gen 11. Particulate Matter Emission Limits.

EP	PM-10	Particulate Matter	Authority for Requirement
SEP-501	0.03 lb/MMBtu	0.03 lb/MMBtu	DNR PSD Permit #86-A-090P1 DNR PSD Permit #86-A-091P1
SEP-501		0.051 lb/MMBtu	40 CFR §60.43b(a)(1) Subpart Db 40 CFR §60.46b(a) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Table Co-Gen 12. Sulfur Dioxide (SO_2) Emission Limits.

EP	Sulfur Dioxide (SO_2)	Authority for Requirement
For coal supplies (or coal blends) which have an equivalent inlet SO_2 rate greater than 2.0 lb/MMBtu:		
SEP-501	0.45 lb/MMBtu, 30-day rolling average[3,7] 90% reduction of equivalent inlet SO_2 rate[3,6,7], 30-day rolling average	DNR PSD Permit #86-A-090P1 DNR PSD Permit #86-A-091P1
For coal supplies (or coal blends) which have an equivalent inlet SO_2 rate less than or equal to 2.0 lb/MMBtu:		
SEP-501	0.20 lb/MMBtu, 30-day rolling average[3,8]	DNR PSD Permit #86-A-090P1 DNR PSD Permit #86-A-091P1
Other standards:		
SEP-501	1.03 lb/MMBtu, 3-hour rolling average[9]	DNR PSD Permit #86-A-090P1 DNR PSD Permit #86-A-091P1
SEP-501	1.2 lb/MMBtu 90% reduction of equivalent inlet SO_2 rate, 30-day rolling average	40 CFR §60.42b(a), (e), (g), Subpart Db 40 CFR §60.45b(a) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)
SEP-501	1.5 lb/MMBtu when burning liquid fuel	LCO 10.12(1)"b"
SEP-501	5 lb/MMBtu, 2-hour rolling average, when burning solid fuel	LCO 10.12(1)"a"
SEP-501	500 ppmv	567 IAC 23.3(3)"e"

Table Co-Gen 13. Nitrogen Oxides and Carbon Monoxide Emission Limits.

EP	NO_X	CO	Authority for Requirement
SEP-501	TBD[4,5]	0.20 lb/MMBtu, 3-hour average[9]	DNR PSD Permit #86-A-090P1 DNR PSD Permit #86-A-091P1
SEP-501	260 ng/J, 0.6 lb/MMBtu, 30-day rolling average		40 CFR §60.44b(a) Subpart Db 40 CFR §60.44b(h)-(i) Subpart Db 40 CFR §60.46b(a) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)
SEP-501	0.07 lb/MMBtu, 30-day rolling average[5]		LCPH ATI 6131 / PTO 6267

Table Co-Gen 14. Other Emission Limits.

EP	Fluorides	Lead	Beryllium	Authority for Requirement
SEP-501	0.75 lb/hr, 3-hour average[9]			DNR PSD Permit #86-A-090P1 DNR PSD Permit #86-A-091P1
SEP-501		$<1.24 \times 10^{-4}$ lb/MMBtu, 0.068 lb/hr	$<8.28 \times 10^{-8}$ lb/MMBtu, $<4.56 \times 10^{-5}$ lb/hr	DNR PSD Permit #86-A-090P1 DNR PSD Permit #86-A-091P1

[1] Standard is expressed as the average of three (3) runs.
[2] Standard is a 12-month rolling total.
[3] Standard is a 30-day rolling average.
[4] This emission limit is waived for the specific optimization study activity as detailed in Operating Limits item C not to extend more than 365 days after the modifications have been completed.
[5] This standard is a 30-day rolling average that includes all periods of operation except for cold startup periods. A cold startup period is defined as that period of time when a coal-fired cogen boiler is proceeding to increase the temperature in the lower combustor from less than 400° F to at least 1,500° F. This period shall last no more than forty-eight (48) hours and NO_x emissions data from this period shall be excluded when determining compliance with the permitted emission limit. Ammonia injection shall begin as soon as the lower combustor temperature reaches 1,500° F and the cold startup period will end at this time. All data from cold startup periods after the first forty-eight (48) hours, or while ammonia is injected in the boiler, will be included in determining compliance with the optimized limit.
[6] The equivalent inlet SO_2 emission rate means the stack emissions (on a lb/MMBtu heat input basis) that would result from the combustion of "as fired" coal in the boiler without SO_2 absorption, assuming 100% conversion of sulfur in the coal to SO_2.
[7] When SO_2 inlet > 2.0 lb/MMBtu.
[8] When SO_2 inlet < 2.0 lb/MMBtu.
[9] Standard is a 3-hour rolling average.

Operational Limits & Requirements

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

Operating Limits:

Operating limits for this emission source are:

A. The fuel combusted shall be limited to gas (for startup), oil (for startup), and coal.

B. The owner or operator must receive an approval from the IDNR central office before a fuel other than specified above is combusted in the boilers. The IDNR shall reevaluate the fuel and may impose best available control technology (BACT) emission standards (including a percent reduction requirement) for the fuel type (or combination) in question. Other PSD-related procedures (e.g., dispersion modeling studies) may also be required.

C. The owner/operator may conduct a study on the boiler to determine the optimized performance of the system within one year after the startup date. In lieu of submitting a study plan and conducting a study, ADM may submit documentation showing that a boiler is equivalent in design, size and operation to a unit for which an optimization study has already been completed and approved, and request that the results of the earlier study be applied to the equivalent unit(s). The Department shall review the optimization study and revise the NO_x emission limit as the Department determines is appropriate so as to reflect optimized performance of the system as indicated by the SNCR percent NO_x reduction for the various operating conditions tested. The Department will include a margin of up to twenty percent (20%) to provide for excess emissions over an averaging period adequate to reflect the variability of the operating parameters the Department determines have the dominant impact on emission rates. Prior to initiating the study, ADM shall submit a detailed study plan for the IDNR approval including the specific dates of the optimization study and the boiler operation conditions to be tested. The optimization study shall monitor and record, but not limited to, the following items:

1) reagent injection rates,
2) boiler NO_x prior to injection,
3) reagent injection to boiler NO_x ratios,
4) boiler temperature,
5) CO, SO_2, and chlorine levels prior to injection,
6) boiler load in MMBtu/hr and percent of rated capacity,
7) steam generation rate,
8) bed calcium to sulfur ratios,
9) fuel type, percent ash and percent sulfur,
10) NO_x emission rate,
11) SNCR NO_x emission reduction in percent,
12) ammonia emission rates, and
13) opacity.

D. This information shall be collected or calculated hourly during the study unless otherwise specified in the detailed study plan to be submitted by ADM as approved by the IDNR. In addition, at least three separate visible emission tests shall be conducted for each set of operation/injection conditions identified for the study. Within one year after beginning operation, the optimization study data and report shall be submitted to the IDNR.

E. ADM shall also submit a summary of study activities with the Quarterly CEM reports covering the same time period as the CEM report.

F. The owner shall furnish the IDNR written reports as follows:

1) Initial Compliance Demonstration Reports required in Condition 13 [of PSD permit #86-A-091-P1].
2) CEMS performance evaluation.
3) The maximum heat input capacity data from the demonstration of the boiler's maximum heat input capacity.
4) The owner shall submit a written emissions report to the IDNR central office each calendar quarter. Reports shall be submitted to the IDNR postmarked no later than 30 days after the end of the calendar quarter starting with the quarter in which initial startup of the boiler occurs. The report shall include the following:
   a. Calendar dates covered by the report,
   b. Dates and hours of startup, shutdown or malfunction,
   c. Type, quality and quantity of fuel combusted,
   d. Each hourly SO_2 and NO_x emissions, a summary of excess opacity emissions and diluent gas emission rate as well as each operating day's 30-day average SO_2 and NO_x. Emission rate and percent SO_2 reduction determined during the reporting period,
   e. Each instance of excess emissions and of non-standard or manual data collection and how those data were collected. Where data was excluded, exceeded full span of the CEMS or was not available for any other reason, together with reasons for each of these instances of noncompliance and a description of the corrective actions taken, and any statistics required pursuant to 40 CFR §60.49b(m),
   f. "F" factor, method of determination and fuel description,
   g. Description of any modification to the CEMS and its potential effect on CEMS performance,
   h. Results of daily CEMS drift test and quarterly accuracy assessments and related data as required under 40 CFR Part 60 Appendix F,
   i. Coal sampling and analysis results,
   j. Lead (Pb) quarterly test results.

G. The owner or operator shall record the amounts of each fuel combusted during each day and calculate a new annual capacity factor for each fuel type at the end of each calendar month as specified in 40 CFR §60.49b(d).

H. The owner or operator shall record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually according to 40 CFR §60.49b(d).

I. The owner or operator shall record the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

J. The owner or operator shall furnish the IDNR with final detailed plans and specifications for all emission control equipment selected by the owner to meet the emission limits contained in **Tables Co-Gen 10, 11, 12, 13, and 14**. This information shall be submitted to the IDNR at least 30 days in advance of construction of any control equipment.

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

A. The owner or operator shall maintain a record of periods of startup, shutdown, or malfunction. Operating hours shall be averaged on a 12-month basis rolled over monthly.

B. The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month as specified in 40 CFR §60.49b(d).

C. The owner or operator shall maintain records of the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

Authority for Requirement: DNR Permit #86-A-090P1
DNR Permit #86-A-091P1

Continuous Emission Monitoring:
The owner or operator shall continuously demonstrate compliance with the SO_2 and NO_X emission limitations and SO_2 percent reduction requirements of this permit, in part, through the use of continuous emission monitoring systems (CEMS). The owner shall install, calibrate, operate, maintain, audit, and record the output from CEMS capable of measuring SO_2, NO_X, and the appropriate diluent gas (oxygen or carbon dioxide). The CEMS shall be installed, calibrated, operated, maintained and audited, and data recorded in accordance with the provisions found at 40 CFR §60.13 (Monitoring Requirements), 40 CFR Part 60, Appendix B, Performance Specifications 2 and 3 (Specification and Test Procedures for SO_2, NOx, and diluent CEMS), and 40 CFR Part 60, Appendix F (Quality Assurance Requirements for Gas CEMS Used for Compliance Determinations).

The CEMS shall be operated and data recorded during any period any fuel is combusted in the boilers. Hourly parts-per-million data recorded by the pollutant CEMS shall be converted to lb-pollutant per million Btus (lb/MMBtus) heat input using the equations and methodology specified in 40 CFR Part 60, Appendix A, Method 19 (as it appears in the July 1, 1992, Code of Federal Regulations). Hourly emission rate data shall be recorded and used by the owner or operator to calculate compliance with the applicable emission rates and percent reductions for the specified averaging times.

The owner or operator shall also install, operate, and maintain a fuel sampling and analysis (FSA) system to collect “as fired” fuel data. The FSA system shall meet or exceed the design and performance specifications set forth in 40 CFR Part 60, Appendix A, Method 19 (incorporating by reference of ASTM Method D2234-76, et al.). As specified by Method 19, at least a minimum number of sample increments shall be collected at a location immediately preceding each day bunker, composited, and analyzed daily. Coal analyses shall be conducted for weight percent sulfur (%S) and gross heat value (GHV, expressed in BTUs/lb-coal).

The owner may develop an in-house coal analysis program or may send collected samples to a laboratory for analysis. In either case, the analytical results shall be available to the proposed boiler operator within 72 hours of the sample collection time.

The "as fired" fuel data shall be used in conjunction with the SO_2 CEMS emission rate data to determine compliance with the SO_2 30-day rolling percent reduction limit.

The owner shall calculate an equivalent SO_2 rate for each bunker using the weight percent sulfur and the gross heating value obtained through daily FSA, using the following equation:

$$Equivalent\ SO_2\ Inlet\ Rate\ of\ Individual\ Bunker = \frac{\%S}{GHV} * K$$

Where K = 20,000 (lb*Btu) / (%*MMBtu)

If the equivalent inlet SO_2 rates for coal contained in each day bunker which feeds to a single boiler differ by 0.2 lb SO_2 /MMBtu heat input or less, the arithmetic average of the two equivalent SO_2 inlet rates shall be used as the "equivalent hourly average SO_2 inlet rate" for each hourly percent reduction calculation during the boiler operation day.

Otherwise, the owner shall: (1) use the smaller of the two equivalent SO_2 inlet rates as the "equivalent hourly average SO_2 inlet rate" for each hourly percent reduction calculation during the boiler operating day or (2) calculate an "equivalent hourly average SO_2 inlet rate" for each hour of operation using the following heat input weighted equation.

$$Equivalent\ Hourly\ Average\ SO_2\ Inlet\ Rate = \frac{(W_1 * \%S_1) + (W_2 * \%S_2)}{(W_1 * GHV_1) + (W_2 * GHV_2)} * K$$

W_1 = Tons of coal fed to first of paired day bunkers during hour
W_2 = Tons of coal fed to second of paired day bunkers during hour
$\%S_1$ = Weight percent sulfur of coal contained in first bunker
$\%S_2$ = Weight percent sulfur of coal contained in second bunker
GHV_1 = Gross heating value of coal contained in first bunker
GHV_2 = Gross heating value of coal contained in second bunker
K= 20,000 (lb*Btu) / (%*MMBtu)

The existing continuous monitoring system for measuring the opacity of emissions discharged into the atmosphere shall be operated, and maintained during all periods of operation of the boiler except for continuous monitoring system breakdowns and repairs. Operation shall be in conformance with 40 CFR §60.48b which includes recording the output of the system. Reporting and recordkeeping requirements shall be in conformance with 40 CFR §60.49b which shall include filing a quarterly report of excess emissions as outlined therein.

Authority for Requirement: DNR Permit #86-A-090P1
DNR Permit #86-A-091P1

Continuous Emission Monitoring and Fuel Sampling Analysis:
For CFBC Boiler #4 and for SO_2 emissions from CFBC Boilers #1, 2, 3:

A. SO_2 and NOx.

The owner shall continuously demonstrate compliance with the SO_2 and NO_X emission limitations and SO_2 percent reduction requirements of this permit through the use of a continuous emission monitoring system (CEMS) and a fuel sampling and analysis (FSA) system. These

systems shall be installed, operating and calibrated prior to beginning the initial compliance demonstration set forth in ["Compliance Demonstrations" of SEP-502] according to 40 CFR §60.13.

In the case where a CEMS is to be used as the test method for demonstrating compliance, the performance certification report shall be submitted to IDNR prior to initiating the facility compliance testing.

Compliance with the SO_2 and NO_X emission rate limitations and the SO_2 percent reduction requirements shall be calculated as the average of all valid hourly emission rate data and valid hourly SO_2 percent reduction data for the 30 previous boiler operating days during which each standard applies. The owner shall calculate a new 30-day average at the end of each boiler operating day.

Unless otherwise approved by the Department, the selection of the CEMS span value (maximum data display output) for each parameter shall be those specified in Subpart Db of the Code of Federal Regulations.

In addition to the provisions of 40 CFR Part 60, Appendix B, the performance specifications applicable to the CEMS required by the permit shall include a data recovery requirement of 90% and shall meet precision and accuracy requirements of 10 percent and 10 percent of the applicable standard respective, unless otherwise specified in the permit. When the minimum data requirements of the permit cannot be obtained, the methods and procedures of 40 CFR §60.47b(c) and §60.48b(F) shall be employed by the owner to obtain the required data.

1. 30-Day Rolling NOx and SO_2 Emission Rate Compliance

The owner shall install, calibrate, operate, maintain, audit, and record the output from CEMS capable of measuring SO_2, NO_X, and the appropriate diluent gas (oxygen or carbon dioxide). The CEMS shall be installed, calibrated, operated, maintained, and audited. Data shall be recorded in accordance with the provisions found at 40 CFR §60.13 [Monitoring Requirements]; 40 CFR Part 60, Appendix B, Performance Specifications 2 and 3 [Specification and Test Procedures for SO_2, NOx, and diluent CEMS]; and 40 CFR Part 60, Appendix F [Quality Assurance Requirements for Gas CEMS Used for Compliance Determinations], as adopted by the Department by reference.

The CEMS shall be operated and data recorded during any period any fuel is combusted in the boiler. Hourly parts-per-million data recorded by the pollutant CEMS shall be converted to pound of pollutant per million Btu (lb/MMBtu) heat input using the equations and methodology specified in 40 CFR Part 60, Appendix A, Method 19 (as it appears in the July 1, 1992, Code of Federal Regulations). Hourly emission rate data shall be recorded and used by the owner/operator to calculate compliance with the applicable emission rates and percent reductions for the specified averaging times.

The owner shall successfully complete SO_2 and NO_X CEMS performance evaluations including relative accuracy and calibration drift assessment evaluations prior to beginning the initial compliance demonstration.

The owner shall notify the DNR central office at least 30 days in advance of conducting any relative accuracy test.

2. SO_2 Percent Reduction Compliance

The owner shall install, calibrate, operate, and maintain a fuel sampling and analysis (FSA) system to collect "as-fired" fuel data. The FSA system shall meet or exceed the design and performance specifications set forth in 40 CFR Part 60, Appendix A, Method 19 (incorporating by reference of ASTM Method D2234-76, et al.).

Analyses shall be performed for weight percent sulfur (%S) and gross heat value (GHV, expressed in Btu/lb-coal). The owner may develop an in-house coal analysis program or may send collected samples to a laboratory for analysis. In either case, the analytical results shall be available to the proposed boiler operator within 72 hours of the sample collection time.

The "as-fired" fuel data shall be used to determine the equivalent hourly average SO_2 inlet rate to the boiler, and shall be used in conjunction with the SO_2 CEMS emission rate data to determine compliance with the SO_2 30-day rolling percent reduction limit.

The owner shall calculate an equivalent SO_2 rate for each bunker using the weight percent sulfur and the gross heating value obtained through daily FSA, using the following equation:

$$Equivalent\ SO_2\ Inlet\ Rate\ of\ Individual\ Bunker = \frac{\%S}{GHV} * K$$

Where K = 20,000 (lb*Btu)/(%*MMBtu)

If the equivalent inlet SO_2 rates for coal contained in each day bunker which feeds to a single boiler differ by 0.2 lb SO_2/MMBtu heat input or less, the arithmetic average of the two equivalent SO_2 inlet rates shall be used as the "equivalent hourly average SO_2 inlet rate" for each hourly percent reduction calculation during the boiler operation day.

Otherwise, the owner shall: (1) use the smaller of the two equivalent SO_2 inlet rates as the "equivalent hourly average SO_2 inlet rate" for each hourly percent reduction calculation during the boiler operating day; or (2) calculate an "equivalent hourly average SO_2 inlet rate" for each hour of operation using the following heat input weighted equation.

$$Equivalent\ Hourly\ Average\ SO_2\ Inlet\ Rate = \frac{(W_1 * \%S_1) + (W_2 * \%S_2)}{(W_1 * GHV_1) + (W_2 * GHV_2)} * K$$

W_1 = Tons of coal fed to first of paired day bunkers during hour
W_2 = Tons of coal fed to second of paired day bunkers during hour
$\%S_1$ = Weight percent sulfur of coal contained in first bunker
$\%S_2$ = Weight percent sulfur of coal contained in second bunker
GHV_1 = Gross heating value of coal contained in first bunker
GHV_2 = Gross heating value of coal contained in second bunker
K = 20,000 (lb*Btu) / (%*MMBtu)

B. Particulate (PM_{10})

The existing continuous monitoring system for measuring the opacity of emissions discharged into the atmosphere shall be operated, and maintained during all periods of operation of the boiler except for continuous monitoring system breakdowns and repairs. Operation shall be in conformance with 40 CFR §60.48b which includes recording the output of the system. Reporting and recordkeeping requirements shall be in conformance with 40 CFR §60.49b which shall include filing a quarterly report of excess emissions as outlined therein.

C. Lead (Pb) and Beryllium (Be)

Coal samples shall be analyzed for Lead (Pb) and Beryllium (Be) and the results submitted in writing to the IDNR on a quarterly basis. Fuel Sampling shall be conducted as specified in Condition A.2 above. Sample Analysis for Lead (Pb) and Beryllium (Be) shall be performed as specified in SW-846 Method 6010. The test results shall be reported as specified below.

The owner shall submit a written emissions report to the IDNR central office each calendar quarter. Reports shall be submitted to the IDNR postmarked no later than 30 days after the end of the calendar quarter starting with the quarter in which initial startup of the boiler occurs. The report shall include the following:

- Calendar dates covered by the report,
- Dates and hours of startup, shutdown or malfunction,
- Type, quality and quantity of fuel combusted,
- Each hourly SO_2, NOx, opacity and diluent gas emission rate as well as each operating day's 30-day average SO_2, and NOx emission rate and percent SO_2, reduction determined during the reporting period,
- Each instance of excess emissions, and of non-standard or manual data collection and how those data were collected. Where data was excluded, exceeded full span of the CEMS or was not available for any other reason, together with reasons for each of these instances of noncompliance and a description of the corrective actions taken, and any statistics required pursuant to 40 CFR §60.49b(m),
- "F" factor, method of determination and fuel description,
- Description of any modification to the CEMS and its potential effect on CEMS performance,
- Results of daily CEMS drift test and quarterly accuracy assessments and related data as required under 40 CFR Part 60 Appendix F,
- Coal sampling and analysis results,
- PM_{10}, Lead (Pb) and Beryllium (Be) quarterly test results.

All data, records, reports, documentation, and calculations required under this permit shall be available at the plant during normal business hours for inspection and copying by federal, state, or local air pollution regulatory agencies and their authorized representatives for a minimum of five (5) years from the date of recording.

Authority for Requirement: DNR PSD Permit 93-A-324-S1

Operating Condition Monitoring:
For CFBC Boilers #1, 2, 3 and 4, the owner shall maintain a record of periods of startup, shutdown or malfunction. Operating hours shall be averaged on a 12-month basis rolled over monthly.

Authority for Requirement: DNR PSD Permit #93-A-324-S1

NSPS General Requirements:
These boilers are subject to 40 CFR Part 60 NSPS Subpart Db, Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units.

The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control

equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. 40 CFR §60.7(b)

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR §60.7(c). The summary report form shall contain the information and format required in 40 CFR §60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR §60.7(e).

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment, or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR §60.12

Authority for Requirement: 567 IAC 23.1(2)

Existing Large Solid Fuel Subcategory:
These emission units are subject to Subpart A – General Provisions (40 CFR §63.1 through 40 CFR §63.15) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and Subpart DDDDD – NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR §63.7480 through 40 CFR §63.7575).

Authority for requirement: NESHAP Subpart A
NESHAP Subpart DDDDD

<u>Emission Point Characteristics</u>
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 350
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 138
Exhaust Temperature (°F): 358°F
Exhaust Flow Rate (acfm): 403,000 (combined Boilers #1 and #2)

Authority for Requirement: DNR PSD Permit #86-A-090P1
DNR PSD Permit #86-A-091P1
LCPH ATI 6131 / PTO 6267

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flow rate above are different than the values stated, the owner or operator shall

submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

Continuous Emissions Monitoring:

Pollutant:	**Nitrogen Oxides (NO_X)**
Continuous Emissions Monitor ID:	ME-501A for Boiler #1
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 4, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix A and B
Authority for Requirement:	40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Nitrogen Oxides (NO_X)**
Continuous Emissions Monitor ID:	ME-501B for Boiler #2
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 4, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix A and B
Authority for Requirement:	40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Opacity**
Continuous Emissions Monitor ID:	ME-501C for Boilers #1 and #2
Operational Specifications:	40 CFR §60.13 and 40 CFR §60.45
Date of Most Recent System Calibration & Quality Assurance:	March 2, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix B
Authority for Requirement:	DNR PSD Permit #86-A-090 DNR PSD Permit #86-A-091 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Sulfur Dioxide (SO_2)**
Continuous Emissions Monitor ID:	ME-501F for Boiler #1
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 4, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix A and B
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Sulfur Dioxide (SO_2)**
Continuous Emissions Monitor ID:	ME-501G for Boiler #2
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 4, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix A and B
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Other Parameters:

Pollutant:	**Diluent Gas (Oxygen)**
Continuous Emissions Monitor ID:	ME-501D for Boiler #1
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 4, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix A and B
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Diluent Gas (Oxygen)**
Continuous Emissions Monitor ID:	ME-501E for Boiler #2
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 4, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix A and B
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Flow**
Continuous Emissions Monitor ID:	ME-501H for Boiler #1 and #2
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	February 23, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR 60, Appendix F
Reporting & Recordkeeping:	40 CFR 60, Appendix B
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Diluent Gas (Carbon Dioxide)**
Continuous Emissions Monitor ID:	ME-501I for Boiler #1 and #2
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	February 23, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR 60, Appendix F
Reporting & Recordkeeping:	40 CFR 60, Appendix B
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(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** ☒[1] **No** ☐

[1] Compliance Assurance Monitoring is required for PM_{10} and an agency-approved operation and maintenance plan is technically required for PM; however, as PM and PM_{10} are controlled by the same equipment, and CAM is more stringent, the separate agency-approved operation and maintenance plan requirement is waived.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

The SO_2 and NO_X potentials to emit trigger Agency-approved operation & maintenance plans; however, existing CEMS at this emission point meet or exceed the Agency-approved operation & maintenance plan requirements for these pollutants.

Emission Point ID Number: SEP-502
Process Area: COGENERATION

Table Co-Gen 15. Emission Point Description.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
SEP-502	EU-502A	Co-Gen Boiler #3	Coal	551.50 MMBtu/hr
SEP-502	EU-502AN	Co-Gen Boiler #3	Natural Gas	0.22 MMCF/hr
SEP-502	EU-502AF	Co-Gen Boiler #3	Fuel Oil	
SEP-502	EU-502B	Co-Gen Boiler #4	Coal	551.50 MMBtu/hr
SEP-502	EU-502BN	Co-Gen Boiler #4	Natural Gas	0.22 MMCF/hr
SEP-502	EU-502BF	Co-Gen Boiler #4	Fuel Oil.	

Table Co-Gen 16. Associated Equipment.

EP	EU	CE ID	CE Description	ME ID
SEP-502	EU-502A	CE-502A CE-502D	Co-gen Boiler #3 Baghouse Limestone Injection SNCR	ME-502A, ME-502C, ME-502D, ME-502F, ME-502H, ME-502I
SEP-502	EU-502AN	CE-502A CE-502D	Co-gen Boiler #3 Baghouse Limestone Injection SNCR	ME-502A, ME-502C, ME-502D, ME-502F, ME-502H, ME-502I
SEP-502	EU-502B	CE-502B CE-502C CE-502E	Co-gen Boiler #4 Baghouse SNCR Limestone Injection	ME-502B, ME-502C, ME-502E, ME-502G, ME-502H, ME-502I
SEP-502	EU-502BN	CE-502B CE-502C CE-502E	Co-gen Boiler #4 Baghouse SNCR Limestone Injection	ME-502B, ME-502C, ME-502E, ME-502G, ME-502H, ME-502I

Applicable Requirements

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

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

Table Co-Gen 17. Opacity Emission Limits.

EP	EU	Opacity	Authority for Requirement
SEP-502	EU-502A, EU-502AN, EU-502B, EU-502BN	20%, 6-minute average[1] except for one 6-minute period per hour of not more than 27%	40 CFR §60.43b(f) Subpart Db 40 CFR §60.46b(a) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)
SEP-502	EU-502B, EU-502BN	20%, 6-minute average[1]	LCPH ATI 6132 / PTO 6268 DNR PSD Permit #93-A-324-S1
SEP-502	EU-502A, EU-502AN, EU-502B, EU-502BN	20%	DNR PSD Permit #90-A-083P1 LCPH ATI 6132 / PTO 6268 LCO 10.7

Table Co-Gen 18. Particulate Matter Emission Limits.

EP	EU	PM_{10}	Particulate Matter	Authority for Requirement
SEP-502	EU-502A EU-502AN		0.10 lb/MMBtu	40 CFR §60.42b(a)(2) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)
SEP-502	EU-502AN	0.03 lb/MMBtu	0.03 lb/MMBtu	DNR Permit #90-A-083P1
SEP-502	EU-502B, EU-502BN		0.051 lb/MMBtu	40 CFR §60.43b(a)(1) Subpart Db 40 CFR §60.46b(a) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)
SEP-502	EU-502B, EU-502BN	0.03 lb/MMBtu, 3-hour average		DNR PSD Permit #93-A-324-S1
SEP-502	EU-502A, EU-502AN, EU-502B, EU-502BN		16.55 lb/hr[1]	LCPH ATI 6132 / PTO 6268

Table Co-Gen 19. Sulfur Dioxide (SO_2) Emission Limits.

EP	EU	Sulfur Dioxide (SO_2)	Authority for Requirement
SEP-502	EU-502A, EU-502AN, EU-502B, EU-502BN	248.2 lb/hr[2], 90% reduction[2,5]	LCPH ATI 6232 / PTO 6268
For coal supplies (or coal blends) which have an equivalent inlet SO_2 rate[3] greater than 2.0 lb/MMBtu:			
SEP-502	EU-502A, EU-502AN	0.45 lb/MMBtu, 30-day rolling average[2,6] 90% reduction of equivalent inlet SO_2 emission rate[2,5,6], 30-day average	DNR PSD Permit #90-A-083P1
For coal supplies (or coal blends) which have an equivalent inlet SO_2 rate[3] less than or equal to 2.0 lb/MMBtu:			
SEP-502	EU-502A, EU-502AN	0.20 lb/MMBtu, 30-day rolling average[2,7]	DNR PSD Permit #90-A-083P1
Other standards:			
SEP-502	EU-502A, EU-502AN	0.94 lb/MMBtu, 3-hour rolling average[8]	DNR PSD Permit #90-A-083P1
SEP-502	EU-502B, EU-502BN	0.94 lb/MMBtu, 3-hour average[9]	DNR PSD Permit #93-A-324-S1

EP	EU	Sulfur Dioxide (SO_2)	Authority for Requirement
SEP-502	EU-502A, EU-502AN, EU-502B, EU-502BN	1.2 lb/MMBtu 90% reduction of equivalent inlet SO_2 rate, 30-day rolling average	40 CFR §60.42b(a), (e), (g), Subpart Db 40 CFR §60.45b(a) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)
SEP-502	EU-502B, EU-502BN	0.45 lb/MMBtu, 30 day rolling average[5], 90% reduction in the equivalent inlet SO_2 emission rate	DNR PSD Permit #93-A-324-S1
SEP-502	EU-502B, EU-502BN	0.45 lb/MMBtu, 30-day rolling average[5]	LCPH ATI 6132 / PTO 6268 DNR PSD Permit #93-A-324-S1
SEP-502	EU-502A, EU-502AN, EU-502B, EU-502BN	1.5 lb/MMBtu when burning liquid fuel	LCO 10.12(1)"b"
SEP-502	EU-502A, EU-502AN, EU-502B, EU-502BN	5 lb/MMBtu, 2-hour rolling average, when burning solid fuel	LCO 10.12(1)"a"
SEP-502	EU-502A, EU-502AN, EU-502B, EU-502BN	500 ppmv	567 IAC 23.3(3)"e"

Table Co-Gen 20. Nitrogen Oxides and Carbon Monoxide Emission Limits.

EP	EU	NO_x	CO	Authority for Requirement
SEP-502	EU-502A, EU-502AN	TBD[1,3,4]	0.2 lb/MMBtu, 3-hour average[8]	DNR PSD Permit #90-A-083P1
SEP-502	EU-502B, EU-502BN	0.07 lb/MMBtu, 30-day rolling	0.2 lb/MMBtu, 3-hour average[8]	LCPH ATI 6132 / PTO 6268 DNR PSD Permit #93-A-324-S1
SEP-502	EU-502A, EU-502AN, EU-502B, EU-502BN		110.3 lb/hr[1]	LCPH ATI 6163 / PTO 6268

Table Co-Gen 21. Other Emission Limits.

EP	EU	Fluorides	Lead	Beryllium	Authority for Requirement
SEP-502	EU-502A, EU-502AN	0.75 lb/hr[1], 3-hour average[8]	$<1.24 \times 10^{-4}$ lb/MMBtu, 0.068 lb/hr[1]	$<8.28 \times 10^{-8}$ lb/MMBtu, $<4.57 \times 10^{-5}$ lb/hr[1]	DNR PSD Permit #90-A-083P1

EP	EU	Fluorides	Lead	Beryllium	Authority for Requirement
SEP-502	EU-502B, EU-502BN	0.75 lb/hr, 3 tpy, 3-hour average	2.28×10^{-4} lb/MMBtu 3-month average, 0.55 tpy	1.53×10^{-7} lb/MMBtu 12-month rolling average, 0.000368 tpy	Iowa PSD Permit #93-A-324-S1
SEP-502	EU-502A, EU-502AN, EU-502B, EU-502BN	0.75 lb/hr[1]	0.07 lb/hr[1]	8.4×10^{-5} lb/hr[1]	LCPH ATI 6163 / PTO 6268

Table Co-Gen 22. Volatile Organic Compound (VOC) Emission Limits.

EP	EU	VOC	Authority for Requirement
SEP-502	EU-502A, EU-502AN, EU-502B, EU-502BN	1.45 lb/hr[1]	LCPH ATI 6232 / PTO 6268

[1] Standard is expressed as the average of three (3) runs.
[2] Standard is a 30-day rolling average.
[3] This emission limit is waived for the specific SNCR optimization study activity as detailed in Operating Limits item C not to extend more than 365 days after the SNCR modifications have been completed.
[4] This standard is a 30-day rolling average that includes all periods of operation except for cold startup periods. A cold startup period is defined as that period of time when a coal-fired cogen boiler is proceeding to increase the temperature in the lower combustor from less than 400° F to at least 1,500° F. This period shall last no more than forty-eight (48) hours and NO_x emissions data from this period shall be excluded when determining compliance with the permitted emission limit. Ammonia injection shall begin as soon as the lower combustor temperature reaches 1,500° F and the cold startup period will end at this time. All data from cold startup periods after the first forty-eight (48) hours, or while ammonia is injected in the boiler, will be included in determining compliance with the optimized limit.
[5] The equivalent inlet SO_2 emission rate means the stack emissions (on a lb/MMBtu heat input basis) that would result from the combustion of "as fired" coal in the boiler without SO_2 absorption, assuming 100% conversion of sulfur in the coal to SO_2.
[6] When SO_2 inlet > 2.0 lb/MMBtu.
[7] When SO_2 inlet < 2.0 lb/MMBtu.
[8] Standard is a 3-hour rolling average.
[9] This limit is effective on and after the date the 30-day SO_2 compliance demonstration is completed.

<u>Operational Limits & Requirements</u>

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 from Boiler #3 and Boiler #4. A Selective Non-Catalytic Reduction (SNCR) system shall be installed to control NO_X

emissions on Boiler #3 and Boiler #4. 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 6132 / PTO 6268

Operating Limits:
Operating limits for this emission source are:

A. The fuel combusted shall be limited to gas (for startup), oil (for startup), and coal.

B. The owner or operator must receive an approval from the IDNR central office before a fuel other than specified above is combusted in the boilers. The IDNR shall reevaluate the fuel and may impose best available control technology (BACT) emission standards (including a percent reduction requirement) for the fuel type (or combination) in question. Other PSD-related procedures (e.g., dispersion modeling studies) may also be required.

C. The owner/operator shall conduct a study on the boiler to determine the optimized performance of the SNCR system within one year after the startup date. The Department shall review the optimization study and revise the NOx emission limit as the Department determines is appropriate so as to reflect optimized performance of the SNCR system as indicated by the SNCR percent NOx reduction for the various operating conditions tested. The Department will include a margin of up to twenty percent (20%) to provide for excess emissions over an averaging period adequate to reflect the variability of the operating parameters the Department determines have the dominant impact on emission rates. Prior to initiating the study, ADM shall submit a detailed study plan for the IDNR approval, including the specific dates of the optimization study and the boiler operation conditions to be tested. The optimization shall monitor and record, but not limited to, the following items:

1) reagent injection rates,
2) boiler NO_x prior to injection,
3) reagent injection to boiler NO_x ratios,
4) boiler temperature,
5) CO, SO_2, and chlorine levels prior to injection,
6) boiler load in MMBtu/hr and percent of rated capacity,
7) steam generation rate,
8) bed calcium to sulfur ratios,
9) fuel type, percent ash and percent sulfur,
10) NO_x emission rate,
11) SNCR NO_x emission reduction in percent,
12) ammonia emission rates, and
13) opacity.

This information shall be collected or calculated hourly during the study unless otherwise specified in the detailed study plan to be submitted by ADM as approved by the IDNR. In addition, at least three separate visible emission tests shall be conducted for each set of operation/injection conditions identified for the study.

D. Within one year after beginning operation, the optimization study data and report shall be submitted to the IDNR.

E. ADM shall also submit a summary of study activities with the Quarterly CEM reports covering the same time period as the CEM report.

F. The owner shall furnish the IDNR written reports as follows:

1) Initial Compliance Demonstration Reports required in Condition 13 [of PSD permit #93-A-083P1].
2) CEMS performance evaluation.
3) The maximum heat input capacity data from the demonstration of the boiler's maximum heat input capacity.
4) The owner shall submit a written emissions report to the IDNR central office each calendar quarter. Reports shall be submitted to the IDNR postmarked no later than 30 days after the end of the calendar quarter starting with the quarter in which initial startup of the boiler occurs. The report shall include the following:
   a. Calendar dates covered by the report,
   b. Dates and hours of startup, shutdown or malfunction,
   c. Type, quality and quantity of fuel combusted,
   d. Each hourly SO_2 and NO_x emissions, a summary of excess opacity emissions and diluent gas emission rate as well as each operating day's 30-day average SO_2 and NO_x. Emission rate and percent SO_2 reduction determined during the reporting period,
   e. Each instance of excess emissions and of non-standard or manual data collection and how those data were collected. Where data was excluded, exceeded full span of the CEMS or was not available for any other reason, together with reasons for each of these instances of noncompliance and a description of the corrective actions taken, and any statistics required pursuant to 40 CFR §60.49b(m),
   f. "F" factor, method of determination and fuel description,
   g. Description of any modification to the CEMS and its potential effect on CEMS performance,
   h. Results of daily CEMS drift test and quarterly accuracy assessments and related data as required under 40 CFR Part 60 Appendix F,
   i. Coal sampling and analysis results,
   j. Lead (Pb) quarterly test results.

G. The owner or operator shall record the amounts of each fuel combusted during each day and calculate a new annual capacity factor for each fuel type at the end of each calendar month as specified in 40 CFR §60.49b(d).

H. The owner or operator shall record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually according to 40 CFR §60.49b (d).

I. The owner or operator shall record the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

J. The owner or operator shall furnish the IDNR with final detailed plans and specifications for all emission control equipment selected by the owner to meet the emission limits

contained in Condition 10. This information shall be submitted to the IDNR at least 30 days in advance of construction of any control equipment.

Authority for Requirement: DNR PSD Permit #90-A-083P1

For CFBC Boilers #1, 2, 3 and 4, the owner shall maintain a record of periods of startup, shutdown or malfunction. Operating hours shall be averaged on a 12-month basis rolled over monthly.

Authority for Requirement: DNR PSD Permit #93-A-324-S1

Operating Condition Monitoring:

A. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall show the following:

B. The owner or operator shall maintain a record of periods of startup, shutdown, or malfunction. Operating hours shall be averaged on a 12-month basis rolled over monthly.

C. The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month as specified in 40 CFR §60.49b(d).

D. The owner or operator shall maintain records of the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

Authority for Requirement: DNR PSD Permit #90-A-083P1

Continuous Emission Monitoring:

The owner or operator shall continuously demonstrate compliance with the SO_2 and NO_X emission limitations and SO_2 percent reduction requirements of this permit, in part, through the use of continuous emission monitoring systems (CEMS). The owner shall install, calibrate, operate, maintain, audit, and record the output from CEMSa continuous emission monitoring system (CEMS) capable of measuring SO_2, NO_X, and the appropriate diluent gas (oxygen or carbon dioxide). The CEMS shall be installed, calibrated, operated, maintained and audited, and data recorded in accordance with the provisions found at 40 CFR §60.13 (Monitoring Requirements); 40 CFR Part 60, Appendix B, Performance Specifications 2 and 3 (Specification and Test Procedures for SO_2, NO_X, and diluent CEMS), and 40 CFR Part 60, Appendix F (Quality Assurance Requirements for Gas CEMS Used for Compliance Determinations).

The CEMS shall be operated and data recorded during any period any fuel is combusted in the boilers. Hourly parts-per-million data recorded by the pollutant CEMS shall be converted to lb-pollutant per million Btus (lb/MMBtus) heat input using the equations and methodology specified in 40 CFR Part 60, Appendix A, Method 19 (as it appears in the July 1, 1992, Code of Federal Regulations). Hourly emission rate data shall be recorded and used by the owner or operator to calculate compliance with the applicable emission rates and percent reductions for the specified averaging times.

The owner or operator shall also install, operate, and maintain a fuel sampling and analysis (FSA) system to collect "as-fired" fuel data. The FSA system shall meet or exceed the design and performance specifications set forth in 40 CFR Part 60, Appendix A, Method 19 (incorporating by reference of ASTM Method D2234-76, et al.). As specified by Method 19, at least a minimum number of sample increments shall be collected at a location immediately preceding each day bunker, composited, and analyzed daily. Coal analyses shall be conducted for weight percent sulfur (%S) and gross heat value (GHV, expressed in Btus/lb-coal).

The owner may develop an in-house coal analysis program or may send collected samples to a laboratory for analysis. In either case, the analytical results shall be available to the proposed boiler operator within 72 hours of the sample collection time.

The "as-fired" fuel data shall be used in conjunction with the SO_2 CEMS emission rate data to determine compliance with the SO_2 30-day rolling percent reduction limit.

The owner shall calculate an equivalent SO_2 rate for each bunker using the weight percent sulfur and the gross heating value obtained through daily FSA, using the following equation:

$$Equivalent\ SO_2\ Inlet\ Rate\ of\ Individual\ Bunker = \frac{\%S}{GHV} * K$$

Where K=20,000(lb*BTU)/%*MMBTU)

If the equivalent inlet SO_2 rates for coal contained in each day bunker which feeds to a single boiler differ by 0.2 lbs-SO_2 /MMBtu heat input or less, the arithmetic average of the two equivalent SO_2 inlet rates shall be used as the "equivalent hourly average SO_2 inlet rate" for each hourly percent reduction calculation during the boiler operation day.

Otherwise, the owner shall: (1) use the smaller of the two equivalent SO_2 inlet rates as the "equivalent hourly average SO_2 inlet rate" for each hourly percent reduction calculation during the boiler operating day; or (2) calculate an "equivalent hourly average SO_2 inlet rate" for each hour of operation using the following heat input weighted equation.

$$Equivalent\ Hourly\ Average\ SO_2\ Inlet\ Rate = \frac{(W_1 * \%S_1) + (W_2 * \%S_2)}{(W_1 * GHV_1) + (W_2 * GHV_2)} * K$$

W_1= Tons of coal fed to first of paired day bunkers during hour
W_2= Tons of coal fed to second of paired day bunkers during hour
$\%S_1$ = Weight percent sulfur of coal contained in first bunker
$\%S_2$= Weight percent sulfur of coal contained in second bunker
GHV_1= Gross heating value of coal contained in first bunker
GHV_2= Gross heating value of coal contained in second bunker
K= 20,000 (lb*BTU)/ (%*MMBTU)

The existing continuous monitoring system for measuring the opacity of emissions discharged into the atmosphere shall be operated, and maintained during all periods of operation of the boiler except for continuous monitoring system breakdowns and repairs. Operation shall be in conformance with 40 CFR 60.48b which includes recording the output of the system. Reporting and recordkeeping requirements shall be in conformance with 40 CFR 60.49b which shall include filing a quarterly report of excess emissions as outlined therein.

Authority for Requirement: DNR PSD Permit #90-A-083P1

Continuous Emission Monitoring and Fuel Sampling Analysis:
For CFBC Boiler #4 and for SO_2 emissions from CFBC Boilers #1, 2, 3:

A. SO_2 and NO_X.

The owner shall continuously demonstrate compliance with the SO_2 and NO_X emission limitations and SO_2 percent reduction requirements of this permit through the use of a continuous emission monitoring system (CEMS) and a fuel sampling and analysis (FSA) system. These systems shall be installed, operating and calibrated prior to beginning the initial compliance demonstration set forth in ["Compliance Demonstrations"] according to 40 CFR §60.13.

In the case where a CEMS is to be used as the test method for demonstrating compliance, the performance certification report shall be submitted to IDNR prior to initiating the facility compliance testing.

Compliance with the SO_2 and NO_X emission rate limitations and the SO_2 percent reduction requirements shall be calculated as the average of all valid hourly emission rate data and valid hourly SO_2 percent reduction data for the 30 previous boiler operating days during which each standard applies. The owner shall calculate a new 30-day average at the end of each boiler operating day.

Unless otherwise approved by the Department, the selection of the CEMS span value (maximum data display output) for each parameter shall be those specified in Subpart Db of the Code of Federal Regulations.

In addition to the provisions of 40 CFR Part 60, Appendix B, the performance specifications applicable to the CEMS required by the permit shall include a data recovery requirement of 90% and shall meet precision and accuracy requirements of 10 percent and 10 percent of the applicable standard respective, unless otherwise specified in the permit. When the minimum data requirements of the permit cannot be obtained, the methods and procedures of 40 CFR §60.47b(c) and §60.48b(F) shall be employed by the owner to obtain the required data.

1. 30-Day Rolling NO_X and SO_2 Emission Rate Compliance

The owner shall install, calibrate, operate, maintain, audit, and record the output from CEMS capable of measuring SO_2, NO_X, and the appropriate diluent gas (oxygen or carbon dioxide). The CEMS shall be installed, calibrated, operated, maintained, and audited. Data shall be recorded in accordance with the provisions found at 40 CFR §60.13 [Monitoring Requirements]; 40 CFR Part 60, Appendix B, Performance Specifications 2 and 3 [Specification and Test Procedures for SO_2, NO_X, and diluent CEMS]; and 40 CFR Part 60, Appendix F [Quality Assurance Requirements for Gas CEMS Used for Compliance Determinations], as adopted by the Department by reference.

The CEMS shall be operated and data recorded during any period any fuel is combusted in the boiler. Hourly parts-per-million data recorded by the pollutant CEMS shall be converted to pound of pollutant per million Btu (lb/MMBtu) heat input using the equations and methodology specified in 40 CFR Part 60, Appendix A, Method 19 (as it appears in the July 1, 1992, Code of Federal Regulations). Hourly emission rate data shall be recorded and used by the owner/operator to calculate compliance with the applicable emission rates and percent reductions for the specified averaging times.

The owner shall successfully complete SO_2 and NO_X CEMS performance evaluations including relative accuracy and calibration drift assessment evaluations prior to beginning the initial compliance demonstration.

The owner shall notify the DNR central office at least 30 days in advance of conducting any relative accuracy test.

2. SO_2 Percent Reduction Compliance

The owner shall install, calibrate, operate, and maintain a fuel sampling and analysis (FSA) system to collect "as-fired" fuel data. The FSA system shall meet or exceed the design and performance specifications set forth in 40 C.F.R. Part 60, Appendix A, Method 19 (incorporating by reference of ASTM Method D2234-76, et al.).

Analyses shall be performed for weight percent sulfur (%S) and gross heat value (GHV, expressed in Btu/lb-coal). The owner may develop an in-house coal analysis program or may send collected samples to a laboratory for analysis. In either case, the analytical results shall be available to the proposed boiler operator within 72 hours of the sample collection time.

The "as-fired" fuel data shall be used to determine the equivalent hourly average SO_2 inlet rate to the boiler, andshall be used in conjunction with the SO_2 CEMS emission rate data to determine compliance with the SO_2 30-day rolling percent reduction limit.

The owner shall calculate an equivalent SO_2 rate for each bunker using the weight percent sulfur and the gross heating value obtained through daily FSA, using the following equation:

$$Equivalent\ SO_2\ Inlet\ Rate\ of\ Individual\ Bunker = \frac{\%S}{GHV} * K$$

Where K = 20,000 (lb*Btu)/(%*MMBtu)

If the equivalent inlet SO_2 rates for coal contained in each day bunker which feeds to a single boiler differ by 0.2 lbs-SO_2/MMBtu heat input or less, the arithmetic average of the two equivalent SO_2 inlet rates shall be used as the "equivalent hourly average SO_2 inlet rate" for each hourly percent reduction calculation during the boiler operation day.

Otherwise, the owner shall: (1) use the smaller of the two equivalent SO_2 inlet rates as the "equivalent hourly average SO_2 inlet rate" for each hourly percent reduction calculation during the boiler operating day; or (2) calculate an "equivalent hourly average SO_2 inlet rate" for each hour of operation using the following heat input weighted equation.

$$Equivalent\ Hourly\ Average\ SO_2\ Inlet\ Rate = \frac{(W_1 * \%S_1) + (W_2 * \%S_2)}{(W_1 * GHV_1) + (W_2 * GHV_2)} * K$$

W_1 = Tons of coal fed to first of paired day bunkers during hour
W_2 = Tons of coal fed to second of paired day bunkers during hour
$\%S_1$ = Weight percent sulfur of coal contained in first bunker
$\%S_2$ = Weight percent sulfur of coal contained in second bunker
GHV_1 = Gross heating value of coal contained in first bunker
GHV_2 = Gross heating value of coal contained in second bunker
K = 20,000 (lb*BTU) / (%*MMBTU)

B. Particulate (PM_{10})

The existing continuous monitoring system for measuring the opacity of emissions discharged into the atmosphere shall be operated, and maintained during all periods of operation of the boiler except for continuous monitoring system breakdowns and repairs. Operation shall be in conformance with 40 CFR §60.48b which includes recording the output of the system. Reporting and recordkeeping requirements shall be in conformance with 40 CFR §60.49b which shall include filing a quarterly report of excess emissions as outlined therein.

C. Lead (Pb) and Beryllium (Be)

Coal samples shall be analyzed for Lead (Pb) and Beryllium (Be) and the results submitted in writing to the IDNR on a quarterly basis. Fuel Sampling shall be conducted as specified in Condition A.2 above. Sample Analysis for Lead (Pb) and Beryllium (Be) shall be performed as specified in SW-846 Method 6010. The test results shall be reported as specified below.

The owner shall submit a written emissions report to the IDNR central office each calendar quarter. Reports shall be submitted to the IDNR postmarked no later than 30 days after the end of the calendar quarter starting with the quarter in which initial startup of the boiler occurs. The report shall include the following:

- Calendar dates covered by the report,
- Dates and hours of startup, shutdown or malfunction,
- Type, quality and quantity of fuel combusted,
- Each hourly SO_2, NO_X., opacity and diluent gas emission rate as well as each operating day's 3O-day average SO_2, and NO_X. emission rate and percent SO_2, reduction determined during the reporting period,
- Each instance of excess emissions, and of non-standard or manual data collection and how those data were collected. Where data was excluded, exceeded full span of the CEMS or was not available for any other reason, together with reasons for each of these instances of noncompliance and a description of the corrective actions taken, and any statistics required pursuant to 40 CFR §60.49b(m),
- "F" factor, method of determination and fuel description,
- Description of any modification to the CEMS and its potential effect on CEMS performance,
- Results of daily CEMS drift test and quarterly accuracy assessments and related data as required under 40 CFR Part 60 Appendix F,
- Coal sampling and analysis results,
- PM_{10}, Lead (Pb) and Beryllium (Be) quarterly test results.

All data, records, reports, documentation, and calculations required under this permit shall be available at the plant during normal business hours for inspection and copying by federal, state, or local air pollution regulatory agencies and their authorized representatives for a minimum of five (5) years from the date of recording.

Authority for Requirement: DNR PSD Permit #93-A-324-S1

Compliance Demonstrations:
The owner shall verify initial compliance with the emission limitations contained in Emission Limit Section above and submit a written report of the results within 60 days of achieving maximum production and no later than 180 days after the startup date of the proposed boiler.

Initial compliance demonstrations shall include verification of the flue gas flow rate and exhaust temperature using methods approved by DNR prior to the pretest meeting.

The owner shall submit a written report to the DNR central office of each initial compliance demonstration attempt, whether successful or not, postmarked not later than 30 days after the completion of the test period or the termination of the attempt, whichever occurs first.

A. Long Term Emission Limits

1. 30-Day Rolling NO_X and SO_2 Emission Rate Compliance

The initial performance tests using a Continuous Emission Monitoring System (CEMS) shall be conducted over the first 30 consecutive boiler operating days. The first day of these tests shall be completed within 30 days after achieving maximum production rate but no later than 1 80 days after initial startup of the facility.

For the initial 30-day rolling average compliance test, NO_X. and SO_2, from the boiler shall be monitored for 30 consecutive boiler operating days. The 30-day average emission limit shall be calculated as the average of all valid hourly emission rate data recorded by the CEMS during the 30-day test period.

2. SO_2 Percent Reduction Compliance

The initial performance tests using a Continuous Emission Monitoring System (CEMS) and a Fuel Sampling and Analysis (FSA) system shall be conducted over the first 30 successive boiler operating days. The first day of tests shall be completed within 30 days after achieving maximum production rate but no later than 180 days after initial startup of the facility. Performance tests using CEMS cannot be conducted until each CEMS is certified and accepted by the IDNR for such purposes.

The owner shall use all valid hourly stack emissions data recorded by the CEMS in conjunction with the corresponding equivalent inlet SO_2, rate to calculate each hourly percent SO_2. reduction achieved by the boiler. The 30-day average percent SO_2. reduction shall be calculated as the average of all valid hourly percent reduction values collected during 30 consecutive boiler operating days during which the 90 percent reduction requirement applies.

A boiler operating day means any 24-hour period beginning at 7:00 a.m. and continuing to 7:00 a.m. the following day, during which any amount of coal is combusted in the boiler.

It is not necessary for coal to be combusted continuously for the entire 24-hour period to qualify as a boiler operating day. Valid data includes any data collected during any period of coal combustion and at all operating times.

B. Short Term Emission limits

The boiler shall be performance tested for compliance with the sulfur dioxide (SO_2,), particulate (PM,.), carbon monoxide (CO), and fluoride (F), Lead (Pb) and Beryllium (Be) 3 hour emission standards.

The tests shall be conducted and a written report of the results shall be submitted to the DNR central office within sixty (60) days after achieving the maximum production rate at which the boiler will be operated, but no later than 180 days after initial startup of the boiler. Additional reports may be requested by the DNR central office, unless the owner and DNR agree to a demonstration through other means that the applicable standard is being met.

The owner shall verify initial compliance with the emission limitations contained in Emission Limit Section and submit a written report of the results within 60 days of achieving maximum production and no later than 180 days after the startup date of the proposed boiler. Initial compliance demonstrations shall include verification of the flue gas flow rate and exhaust temperature using methods approved by IDNR prior to the pretest meeting.

The owner shall submit a written report to the DNR central office of each initial compliance demonstration attempt, whether successful or not, postmarked not later than 30 days after the completion of the test period or the termination of the attempt, whichever occurs first.

A. Long Term Emission Limits

1. 30-Day Rolling NO_X and SO_2 Emission Rate Compliance

The initial performance tests using a Continuous Emission Monitoring System (CEMS) shall be conducted over the first 30 consecutive boiler operating days. The first day of these tests shall be completed within 30 days after achieving maximum production rate but no later than 180 days after initial startup of the facility.

For the initial 30-day rolling average compliance test, NO_X. and SO_2, from the boiler shall be monitored for 30 consecutive boiler operating days. The 30-day average emission limit shall be calculated as the average of all valid hourly emission rate data recorded by the CEMS during the 30-day test period.

2. SO_2 Percent Reduction Compliance

The initial performance tests using a Continuous Emission Monitoring System (CEMS) and a Fuel Sampling and Analysis (FSA) system shall be conducted over the first 30 successive boiler operating days. The first day of tests shall be completed within 30 days after achieving maximum production rate but no later than 180 days after initial startup of the facility. Performance tests using CEMS cannot be conducted until each CEMS is certified and accepted by the DNR for such purposes.

The owner shall use all valid hourly stack emissions data recorded by the CEMS in conjunction with the corresponding equivalent inlet SO_2 rate to calculate each hourly percent SO_2 reduction achieved by the boiler. The 30-day average percent SO_2 reduction shall be calculated as the average of all valid hourly percent reduction values collected during 30 consecutive boiler operating days during which the 90 percent reduction requirement applies.

A boiler operating day means any 24-hour period beginning at 7:00 a.m. and continuing to 7:00 a.m. the following day, during which any amount of coal is combusted in the boiler. It is not necessary for coal to be combusted continuously for the entire 24-hour period to qualify as a boiler operating day. Valid data includes any data collected during any period of coal combustion and at all operating times.

B. Short Term Emission limits

The boiler shall be performance tested for compliance with the sulfur dioxide (SO_2), particulate (PM_{10}), carbon monoxide (CO), and fluoride (F), Lead (Pb) and Beryllium (Be) 3 hour emission standards.

The tests shall be conducted and a written report of the results shall be submitted to the DNR central office within sixty (60) days after achieving the maximum production rate at which the boiler will be operated, but no later than 180 days after initial startup of the boiler. Additional

reports may be requested by the DNR central office, unless the owner and DNR agree to a demonstration through other means that the applicable standard is being met.

The CO compliance tests shall be conducted under the same operating and combustion conditions as the NO_X CEMS certification tests. Compliance with the NO_X/BACT emission limit shall take preference if difficulties are encountered in achieving simultaneous compliance with these BACT emission limits. If such difficulties are encountered, the owner may subsequently request a revision of the CO/BACT emission limit.

The following shall apply to all compliance demonstrations:

- Each compliance test conducted shall be approved by the IDNR central office.
- Each compliance test shall consist of three (3) separate runs. The duration shall be established by the DNR central office representative at the pretest meeting. The arithmetic mean of the results of the three runs shall apply for compliance.
- The compliance test method for PM,. shall be Reference Method 5 per 40 CFR §60.46b; for CO shall be the integrated sample of Method 10 of 40 CFR Part 60, Appendix A; for Lead (Pb) shall be reference method 12 of 40 CFR Part 60; and for Beryllium (Be) shall be Reference Method 104 of 40 CFR Part 61, Appendix B. The DNR central office will set forth the test methods and test procedures for fluorides.
- Opacity measurements shall be conducted per Reference Method 9, 40 CFR Part 60, Appendix A during the initial compliance tests for PM_{10}. Alternatively, the opacity monitor may be used for the initial compliance demonstration according to the procedures in 40 CFR §60.11(e)(5).

C. Pretest Meeting

A pretest meeting shall be held at a mutually agreeable site no later than thirty (30) days prior to the date of each compliance test or the date of each CEMS performance evaluation, whichever occurs first if performed at different times. Each meeting shall be attended by representatives of the DNR central office, the owner and the compliance testing firm, if used. Representatives of the Linn County Health Department shall be invited to attend each pretest meeting and each compliance demonstration.

It shall be the responsibility of the owner to coordinate and schedule each meeting, and to formally notify all participants of each pretest meeting date, compliance test date, and CEMS performance evaluation date.

Upon being notified, the DNR will send to the owner a "proposed test plan" questionnaire. The questionnaire shall be completed by the owner and submitted to the DNR as directed. The completed questionnaire must be received by the DNR no later than fifteen (15) working days prior to the pretest meeting date.

D. Additional Notices

The Department reserves the right to impose additional, different, or more detailed testing requirements as the need arises. It is the responsibility of the owner to locate the test ports to be used during compliance testing.

Authority for Requirement: DNR PSD Permit #93-A-324-S1

Fuel Requirements:

Fuel shall be limited to number 1 or number 2 fuel oil with a sulfur content not to exceed 0.5 percent, by weight.

Authority for Requirement: LCO 10.12(1)"c"
567 IAC 23.3(3)"b"(1)

Reporting Requirements:
Copies of all reporting required in PSD Permit 93-A-324-S1 shall be submitted to LCPH.

Authority for Requirement: LCPH ATI 3221 / PTO 3134

Records Retention:
Any data, records, reports, documentation, and calculations required to be kept under this permit shall be available at the plant during normal business hours in a form suitable for inspection and copying by federal, state, or local air pollution regulatory agencies, and their authorized representatives for at least five (5) years from the date of their establishment.

Authority for Requirement: 567 IAC 22.108(4)

NSPS General Requirements:
These boilers are subject to 40 CFR 60 NSPS Subpart Db, Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units.

The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. 40 CFR §60.7(b)

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR §60.7(c). The summary report form shall contain the information and format required in 40 CFR §60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR §60.7(e).

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment, or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

Existing Large Solid Fuel Subcategory:
These emission units are subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and Subpart DDDDD - NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR §63.7480 through 40 CFR §63.7575).

Authority for requirement: NESHAP Subpart A; NESHAP Subpart DDDDD

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 350
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 138
Exhaust Temperature (°F): 320°F
Exhaust Flow Rate (acfm): 400,900 (combined Boilers #3 and #4)
UTM Location: 4,642,020.0 meters Northerly and 608,775.0 meters Easterly
Authority for Requirement: DNR PSD Permit #93-A-324-S1

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

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

Stack Testing:
Stack testing is not required at this time.

Continuous Emissions Monitoring:

Pollutant:	**Nitrogen Oxides (NO_x)**
Continuous Emissions Monitor ID:	ME-502A for Boiler #3
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 5, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix A and B
Authority for Requirement:	DNR PSD Permit #90-A-083P1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Nitrogen Oxides (NO_x)**
Continuous Emissions Monitor ID:	ME-502B for Boiler #4
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 5, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix A and B
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Opacity**
Continuous Emissions Monitor ID:	ME-502C for Boilers #3 and #4
Operational Specifications:	40 CFR §60.13 and 40 CFR §60.45
Date of Most Recent System Calibration & Quality Assurance:	March 2, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60
Reporting & Recordkeeping:	40 CFR Part 60
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Sulfur Dioxide (SO_2)**
Continuous Emissions Monitor ID:	ME-502F for Boiler #3
Operational Specifications:	40 CFR Part 60 Subpart Db
Date of Most Recent System Calibration & Quality Assurance:	May 5, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix A and B
Authority for Requirement:	DNR PSD Permit #90-A-083P1 40 CFR 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Sulfur Dioxide (SO_2)**
Continuous Emissions Monitor ID:	ME-502G for Boiler #4
Operational Specifications:	40 CFR Part 60 Subpart Db
Date of Most Recent System Calibration & Quality Assurance:	May 5, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix A and B
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Other Parameters:

Pollutant:	**Diluent Gas (Oxygen)**
Continuous Emissions Monitor ID:	ME-502D for Boiler #3
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 5, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix A and B
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 DNR PSD Permit #90-A-083P1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Diluent Gas (Oxygen)**
Continuous Emissions Monitor ID:	ME-502E for Boiler #4
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 5, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix A and B
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Flow**
Continuous Emissions Monitor ID:	ME-502H for Boiler #4
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	February 23, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix B
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Diluent Gas (Carbon Monoxide)**
Continuous Emissions Monitor ID:	ME-502I for Boiler #4
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	February 23, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60, Appendix F
Reporting & Recordkeeping:	40 CFR Part 60, Appendix B
Authority for Requirement:	DNR PSD Permit #93-A-324-S1 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(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** ☒[1] **No** ☐

[1] Compliance Assurance Monitoring is required for PM_{10} and an agency approved operation and maintenance plan is required for PM; however, because both PM and PM_{10} are controlled by the same equipment, and CAM is more stringent, the agency approved operation and maintenance plan requirement has been waived.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

The SO_2 and NO_X potentials to emit trigger Agency-approved operation & maintenance plans; however, existing CEMS at this emission point meet or exceed the Agency-approved operation & maintenance plan requirements for these pollutants.

Emission Point ID Number: SEP-503
Process Area: COGENERATION

Table Co-Gen 23. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-503	EU-503	Bunker Dust Collector	Coal	600 ton/hr	CE-503	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 24. Emission Limits.

EP	EU	Opacity	Particulate Matter	Authority for Requirement
SEP-503	EU-503	0% <5% at pick-up points	0.01 gr/dscf	DNR Permit #86-A-093

Table Co-Gen 25. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-503	EU-503	Opacity	20%	40 CFR §60.252(c) Subpart Y 567 IAC 23.1(2)"v" LCO 10.9(2)"a"(22) LCO 10.7
		PM	0.1 gr/dscf 2.41 lb/hr	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a" LCPH ATI 6163 / PTO 6235
		PM_{10}	2.41 lb/hr	LCPH ATI 6163 / PTO 6235

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

NSPS Requirements:
These units are subject to 40 CFR Part 60 NSPS Subpart Y, Standards of Performance for Coal Preparation Plants.

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR §60.11(c).

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is

not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment, or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR §60.12

Authority for Requirement: 567 IAC 23.1(2)

Operating Limits:
The owner or operator of this equipment shall comply with the operational lmiits and requirements listed below:

A. The baseline actual emissions for the project are equal to 3.39 tons per year for PM_{10}. The baseline actual emissions shall remain unchanged throughout the ten (10) year period following resumption of regular operations after Project 1722 is completed.

B. The owner or operator shall determine the actual emissions for Project 1722 by summing the emissions from the following emission points each month: EP-503, EP-514, and EP-515.

C. Actual PM_{10} emissions minus the baseline actual PM_{10} emissions from Project 1722 shall not exceed the PSD significant level of 14.4 tons per calendar year. If this limit is exceeded during the ten (10) year review period, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7).

D. The owner or operator of this equipment shall comply with the operational limits and requirements listed in IDNR Permit 86-A-093.

E. This facility shall meet all applicable requirements of NSPS Subpart A (40 CFR §60.1 through 40 CFR §60.19) to comply with LCO 10.9(2).

F. This facility shall meet the applicable standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles, per NSPS Subpart Y (40 CFR §60.250 through 40 CFR §60.258) to comply with LCO 10.9(2)"a"(22).

G. This facility shall meet the test methods and procedures of NSPS Subpart Y (40 CFR §60.257) to comply with LCO 10.9(2)"a"(22).

H. The pressure differential across the baghouse shall be between 0.5 inches of water column and 8.0 inches of water column.

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

Authority for Requirement: LCPH ATI 6163 / PTO 6235

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall record each month the sum of the actual PM_{10} emissions from the following emission points: EP-503, EP-514, and EP-515.

B. The owner or operator shall record each month the 12-month rolling value of the actual emissions minus the baseline actual emissions from the following emission points: EP-503, EP-514, and EP-515. This written record shall be retained by the owner or operator for a period of ten (10) years after the resumption of regular operations following completion of Project 1722.

C. The facility is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish BAE, and is unrelated to this project (i.e., increased utilization due to demand growth). The facility shall be required to include a justification for any emissions excluded due to demand growth.

D. The owner or operator of this equipment shall comply with the monitoring and recordkeeping requirements listed in IDNR PSD Permit 86-A-093.

E. Notification and recordkeeping requirements for NSPS Subpart A shall be done in accordance with 40 CFR §60.7.

F. General notification and reporting requirements for NSPS Subpart A shall be done in accordance with 40 CFR §60.19.

G. 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 operate or equipment associated with the exceedance, and record the corrective action taken.

H. The owner or operator shall record all maintenance and repair completed on the control device.

I. The owner or operator shall monitor and record the differential pressure across the baghouse on a weekly basis.

Authority for Requirement: LCPH ATI 6163 / PTO 6235

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 165
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 36
Exhaust Temperature (°F): 103°F
Exhaust Flow Rate (acfm): 45,441
Authority for Requirement: LCPH ATI 6163 / PTO 6235

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

Monitoring Requirements

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

Stack Testing:

The following stack tests shall be performed:

Pollutant – Particulate Matter
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 5 (40 CFR Part 60, Appendix A)
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – PM_{10}
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 201A with 202 (40 CFR 51) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

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)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 > 0% 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.

Authority for Requirement: 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required?	**Yes** ☐	**No** ☒
Facility Maintained Operation & Maintenance Plan Required?	**Yes** ☒[1]	**No** ☐
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☒[2]	**No** ☐

[1] Facility maintained operation & maintenance plan is required for PM.
[2] Compliance Assurance Monitoring plan is required for PM_{10}. Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-504
Process Area: COGENERATION

Table Co-Gen 26. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-504	EU-504	Crusher Building D.C. System	Coal	1800 ton/hr	CE-504	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 27. Emission Limits.

EP	EU	Opacity	Particulate Matter	Authority for Requirement
SEP-504	EU-504	0% <5% at pick-up points	0.01 gr/dscf	DNR Permit #86-A-092

Table Co-Gen 28. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-504	EU-504	Opacity	20%	40 CFR §60.252(c) Subpart Y 567 IAC 23.1(2)"v" LCO 10.9(2)"a"(22) LCO 10.7
		PM	0.1 gr/dscf 2.18 lb/hr	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a" LCPH ATI 5801 / PTO 5970
		PM_{10}	2.18 lb/hr	LCPH ATI 5801 / PTO 5970

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

NSPS Requirements:
These units are subject to 40 CFR Part 60 NSPS Subpart Y, Standards of Performance for Coal Preparation Plants.

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR §60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is

not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment, or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR §60.12

Authority for Requirement: 567 IAC 23.1(2)

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. This facility shall meet all applicable requirements of NSPS Subpart A (40 CFR §60.1 through 40 CFR §60.19) to comply with LCO 10.9(2).

B. This facility shall meet the applicable standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles of NSPS Subpart Y (40 CFR §60.250 through 40 CFR §60.258) to comply with LCO 10.9(2)"a"(22).

C. This facility shall meet the performance tests and other compliance requirements of NSPS Subpart Y (40 CFR §60.255) to comply with LCO 10.9(2)"a"(22).

D. This facility shall meet the test methods and procedures of NSPS Subpart Y (40 CFR §60.257) to comply with LCO 10.9(2)"a"(22).

E. The pressure differential across the baghouse shall be between 0.5 inches of water column and 8.0 inches of water column.

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

Authority for Requirement: LCPH ATI 5801 / PTO 5970

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Notification and recordkeeping requirements for NSPS Subpart A shall be done in accordance with 40 CFR §60.7.

B. General notification and reporting requirements for NSPS Subpart A shall be done in accordance with 40 CFR §60.19.

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 differential pressure across the baghouse shall be monitored and recorded on a weekly basis.

E. Maintain records of all maintenance completed on the control device.

Authority for Requirement: LCPH ATI 5801 / PTO 5970

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 61
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 36
Exhaust Temperature (°F): 58°F
Exhaust Flow Rate (acfm): 25,000
Authority for Requirement: LCPH ATI 5801 / PTO 5970

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

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

Stack Testing:
The following stack tests shall be performed:

Pollutant – Particulate Matter
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 5 (40 CFR Part 60, Appendix A)
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – PM_{10}
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 201A with 202 (40 CFR 51) or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

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)

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 this 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 > 0% 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.

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** ☒

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-505
Process Area: COGENERATION

Table Co-Gen 29. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-505	EU-505	Limestone Unloading Dust Collector	Limestone	250 ton/hr	CE-505	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 30. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-505	EU-505	Opacity	20%	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"
		PM PM_{10}	2.18 lb/hr?	LCPH ATI 5802 / PTO 5971

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

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The differential pressure across the baghouse shall be maintained between 0.5 inches of water column and 8.0 inches of water column.

Authority for Requirement: LCPH ATI 5802 / PTO 5971

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will required 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 differential pressure across the baghouse shall be monitored and recorded on a weekly basis.

C. All maintenance performed on the control device shall be recorded.

Authority for Requirement: LCPH ATI 5802 / PTO 5971

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 150
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 36
Exhaust Temperature (°F): 58°F
Exhaust Flow Rate (acfm): 25,000
Authority for Requirement: LCPH ATI 5802 / PTO 5971

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

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

Stack Testing:
Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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] Compliance Assurance Monitoring is required for PM and a facility maintained operation and maintenance plan is required for PM_{10}; however, as PM and PM_{10} are controlled by the same equipment, and CAM is more stringent, the facility maintained operation and maintenance plan requirement has been waived.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

Emission Point ID Number: SEP-506
Process Area: COGENERATION

Table Co-Gen 31. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-506	EU-506	Fly Ash Conveying Dust Collector A	Fly Ash	55 ton/hr	CE-506	Baghouse
	EU-507	Fly Ash Conveying Dust Collector B	Fly Ash	55 ton/hr	CE-507	Baghouse
	EU-509	Bed Ash Conveying Dust Collector A	Bed Ash	15 ton/hr	CE-509	Baghouse
	EU-510	Bed Ash Conveying Dust Collector B	Bed Ash	15 ton/hr	CE-510	Baghouse
	EU-520	Fly Ash Conveying Dust Collector C	Fly Ash	55 ton/hr	CE-520	Baghouse
	EU-541	Bed Ash Conveying Dust Collector C	Bed Ash	15 ton/hr	CE-541	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 32. Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Authority for Requirement
SEP-506	EU-506 EU-507 EU-509 EU-510 EU-520 EU-541	0%	1.95 lb/hr	0.02 gr/dscf 1.95 lb/hr	DNR Permit #86-A-096 DNR Permit #88-A-023 DNR Permit #86-A-099 DNR Permit #86-A-100 LCPH ATI 5803 / PTO 5972

Table Co-Gen 33. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-506	EU-506	Opacity	20%	LCO 10.7
	EU-507 EU-509 EU-510 EU-520 EU-541	PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"

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 used to control particulate emissions for SEP-506, SEP-507, SEP-509, SEP-510, SEP-520, and SEP-541, each. 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 5803 / PTO 5972

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The differential pressure across each baghouse (CE-506, CE-507, CE-509, CE-510, CE-520, and CE-541) shall be between 0.5 inches of water column and 8.0 inches of water column.

Authority for requirement: LCPH ATI 5803 / PTO 5972

At no time shall more than two of the following three emission units operate simultaneously: EU-506, EU-507, and EU-520.

Authority for requirement: IDNR Permit 88-A-023; IDNR Permit 86-A-096

At no time shall more than two of the following three emission units operate simultaneously: EU-509, EU-510, and EU-541.

Authority for requirement: IDNR Permit 86-A-099; IDNR Permit 86-A-100

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The differential pressure across each baghouse (CE-506, CE-507, CE-509, CE-510, CE-520, and CE-541) shall be monitored and recorded on a weekly basis.

B. All maintenance performed on the control devices shall be recorded.

Authority for requirement: LCPH ATI 5803 / PTO 5972

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 145
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 16
Exhaust Temperature (°F): 160°F
Exhaust Flow Rate (acfm): 13,350
Authority for Requirement: LCPH ATI 5803 / PTO 5972

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

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 this unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than 8 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 > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 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.

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** ☒

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-508, SEP-511, SEP-534, SEP-538
Process Area: COGENERATION

Table Co-Gen 34. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-508	EU-508	Fly Ash Silo Vent Dust Collector	Fly Ash	110 ton/hr	CE-508	Baghouse
SEP-511	EU-511	Bed Ash Silo Vent Dust Collector	Bed Ash	85 ton/hr	CE-511	Baghouse
SEP-534	EU-534	Fly Ash Silo Vent	Fly Ash	30 ton/hr	CE-534	Baghouse
SEP-538	EU-538	Bed Ash Silo Vent	Bed Ash	14 ton/hr	CE-538	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 35. Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Authority for Requirement
SEP-508	EU-508	0%		0.02 gr/dscf	DNR Permit #86-A-095
SEP-511	EU-511	0%		0.02 gr/dscf	DNR Permit #86-A-097
SEP-534	EU-534	10%	0.012 gr/dscf	0.012 gr/dscf	DNR PSD Permit #98-A-511-P2 LCPH ATI 3733 / PTO 4737
SEP-534	EU-534		0.21 lb/hr*		DNR PSD Permit #98-A-511-P2 LCPH ATI 3733 / PTO 4737
SEP-538	EU-538	10%	0.012 gr/dscf	0.012 gr/dscf	DNR PSD Permit #98-A-515-P2 LCPH ATI 3729 / PTO 4733
SEP-538	EU-538		0.21 lb/hr*		DNR PSD Permit #98-A-515-P2 LCPH ATI 3729 / PTO 4733

*Emission rate used to demonstrate the boiler project was below PSD significant impact levels for PM_{10}.

Table Co-Gen 36. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-508	EU-508	Opacity	20%	LCO 10.7
SEP-511 SEP-534 SEP-538	EU-511 EU-534 EU-538	PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"

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 used to control particulate matter emissions for SEP-534 and SEP-538. 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 3733 / PTO 4737
LCPH ATI 3729 / PTO 4733

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Co-Gen 37.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (scfm)
SEP-534	3733 / 4737	127	Horizontal	24 x 48	70	2,100
SEP-538	3729 / 4733	127	Horizontal	24 x 48	70	2,100

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

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

Stack Testing:
Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 greater than the applicable standard listed in **Table Co-Gen 35** above 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.

Authority for Requirement: 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☒[1] **No** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

[1] Facility maintained operation & maintenance plan is required for PM and PM_{10} for SEP-534 and SEP-538.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-512, SEP-513
Process Area: COGENERATION

Table Co-Gen 38. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-512	EU-512	Transferring Limestone into Storage Dust Collector	Limestone	250 ton/hr	CE-512	Bin Vent Filter
SEP-513	EU-513	Transferring Limestone into Storage Dust Collector	Limestone	250 ton/hr	CE-513	Bin Vent Filter

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 39. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-512 SEP-513	EU-512 EU-513	Opacity	20%	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"
		PM_{10}	0.086 lb/hr	ATI 6730 / PTO 6611 ATI 6729 / PTO 6612

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

Operating Limits:

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

B. The differential pressure across the bin vent filter shall be 0.2 inches of water column to 6 inches of water column.

Authority for Requirement: LCPH ATI 6730 / PTO 6611
LCPH ATI 6729 / PTO 6612

Operating Condition Monitoring and Recordkeeping:
Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

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. Record all maintenance and repair completed on the control device.

C. Monitor and record differential pressure across the bin vent filter on a weekly basis.

Authority for Requirement: LCPH ATI 6730 / PTO 6611
LCPH ATI 6729 / PTO 6612

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Co-Gen 40.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (scfm)
SEP-512	6730 / 6611	138	Horizontal	7.5 x 10	68	1,000
SEP-513	6729 / 6612	138	Horizontal	7.5 x 10	68	1,000

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

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

Stack Testing:
Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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** ☒

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-514, SEP-515
Process Area: COGENERATION

Table Co-Gen 41. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-514	EU-514	Coal Truck Dump Pit Dust Collector (South)	Coal	1,200 ton/hr	CE-514	Baghouse
SEP-515	EU-515	Coal Truck Dump Pit Dust Collector (North)	Coal	1,200 ton/hr	CE-514	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 42. Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Authority for Requirement
SEP-514 SEP-515	EU-514 EU-515	10%		0.18 tpy	DNR Permit #86-A-094
SEP-514 SEP-515	EU-514 EU-515	10%[1]		0.01 gr/dscf	40 CFR §60.254(b)(2) Subpart Y 567 IAC 23.1(2)"v" LCO 10.9(2)"a"(22)
SEP-514 SEP-515	EU-514 EU-515		1.6 lb/hr[2] 14.4 tpy[3]	1.6 lb/hr[2]	LCPH ATI 6108 / PTO 6236 LCPH ATI 6120 / PTO 6237

Table Co-Gen 43. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-514 SEP-515	EU-514 EU-515	Opacity	20%	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"

[1] An exceedance of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, Linn County may require additional proof to demonstrate compliance (e.g., stack testing).
[2] Emission rate used to demonstrate no exceedance of the National Ambient Air Quality Standards (NAAQS).
[3] This emission limit is a PSD synthetic minor limit that was established for this project, which includes SEP-503, SEP-514, and SEP-515. Compliance with this annual emission limit is demonstrated pursuant to "Operating Condition Monitoring and Recordkeeping."

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

NSPS and NESHAP Applicability:
These units are subject to 40 CFR 60 NSPS Subpart Y, Standards of Performance for Coal Preparation Plants.

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR §60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR §60.12

Authority for Requirement: 567 IAC 23.1(2)

This source is not subject to a NESHAP at this time.

Authority for Requirement: LCPH ATI 6108 / PTO 6236
LCPH ATI 6120 / PTO 6237

Control Device:
A baghouse shall be installed to control particulate emissions. 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 need 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 6108 / PTO 6236
LCPH ATI 6120 / PTO 6237

Operating Limits:

A. This source shall be limited to a monthly average of 110 hours of operation per week.

B. The differential pressure across the baghouse shall be 0.5 inches of water column to 8 inches of water column.

C. This facility shall meet all applicable requirements of 40 CFR Part 60 (NSPS Subpart A) to comply with LCO 10.9(2).

D. This facility shall meet the applicable standards for coal processing and conveying equipment, coal storage systems, transfer and loading systems, and open storage piles of 40 CFR §60.254 (NSPS Subpart Y) to comply with LCO 10.9(2)"a"(22).

E. This facility shall meet the performance tests and other compliance requirements of 40 CFR §60.255 (NSPS Subpart Y) to comply with LCO 10.9(2)"a"(22).

F. This facility shall meet the test methods and procedures of 40 CFR §60.257 (NSPS Subpart Y) to comply with LCO 10.9(2)"a"(22).

G. The baseline actual emissions for the project are equal to 3.39 tons per year for PM_{10}. The baseline actual emissions shall remain unchanged throughout the ten (10) year period following the issuance of this permit.

H. The owner or operator shall determine the actual emissions for the project by summing the emissions from the following emission points each month: SEP-503, SEP-514, and SEP-515.

I. Actual emissions minus the baseline actual emissions from the project shall not exceed the PSD significant levels: 14.4 tons per 12-month rolling period of PM_{10}. If these limits are exceeded during the ten (10) year review period, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7).

Authority for Requirement: LCPH ATI 6108 / PTO 6236
LCPH ATI 6120 / PTO 6237

Operating Condition Monitoring and Recordkeeping:
Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner/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. Hours of operation of the coal dump pit dust collection system.

C. Record all maintenance and repair completed on the control device.

D. Monitor and record differential pressure across the baghouse on a weekly basis.

E. Notification and recordkeeping requirements for NSPS Subpart A shall be done in accordance with 40 CFR §60.7.

F. General notification and reporting requirements for NSPS Subpart A shall be done in accordance with 40 CFR §60.19.

G. Record each month the sum of the actual PM_{10} emissions from the following emission points: SEP-503, SEP-514, and SEP-515.

H. Record each month the 12-month rolling value of the actual emission minus the baseline actual emissions from the following emission points: SEP-503, SEP-514, and SEP-515. 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 facility is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish BAE, and is unrelated to this project (i.e., increased utilization due to demand growth). The facility shall be required to include a justification for any emissions excluded due to demand growth.

Authority for Requirement: LCPH ATI 6108 / PTO 6236
LCPH ATI 6120 / PTO 6237

Reporting:
The owner or operator shall submit to the department the 12-month rolling value of the actual emissions minus the baseline actual emissions each calendar year. This information must be postmarked by March 31 for each calendar year submitted (i.e., the initial report shall be postmarked by March 31, 2012).

Authority for Requirement: LCPH ATI 6108 / PTO 6236
LCPH ATI 6120 / PTO 6237

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Co-Gen 44.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (scfm)**
SEP-514	6108 / 6236	85	Vertical, unobstructed	52	70	75,000
SEP-515	6120 / 6237	85	Vertical, unobstructed	52	70	75,000

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

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

Stack Testing:
The following stack tests shall be performed:

Pollutant – Particulate Matter[1]
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 5 (40 CFR Part 60, Appendix A)
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Particulate Matter (PM_{10})[1]
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 201A with 202 (40 CFR Part 51, Appendix M)
Authority for Requirement – 567 IAC 22.108(3)

[1] ADM may choose to perform the required tests on either the North or South Coal Truck Dump Pit Dust Collector. One set of tests may be used to represent emissions and compliance from both emission points. If the test results for any pollutant are 90% or above of the applicable standard, additional testing of both dust collectors shall be required. A test protocol must be approved by the Department's stack testing personnel prior to testing.

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)

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 >10 % 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.

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] Compliance Assurance Monitoring is required for PM_{10} and a facility maintained operation and maintenance plan is required for PM; however, as PM and PM_{10} are controlled by the same equipment, and CAM is more stringent, the facility maintained operation and maintenance plan requirement is waived.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

Emission Point ID Number: SEP-521
Process Area: COGENERATION

Table Co-Gen 45. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-521	EU-521	Co-Gen HCl and Neutralization Tanks	HCl	10,000 gal/hr	CE-521A CE-521B	Venturi Scrubber & Neutralization Tank Spray Scrubber

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 46. Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Authority for Requirement
SEP-521	EU-521		0.26 lb/hr[1]	0.26 lb/hr[1]	LCPH ATI 4943 / PTO 5306

Table Co-Gen 47. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-521	EU-521	Opacity	20%	LCO 10.7 LCPH ATI 4943 / PTO 5306
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a" LCPH ATI 4943 / PTO 5306

[1]It is assumed that PM is equal to PM_{10}.

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

Control Device:
A venturi and a spray scrubber shall be used to control HCl emissions. 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 4943 / PTO 5306

Operating Limits:

A. Fresh water flow to the spray scrubber shall be maintained at 3 gallons per minute or greater.

Authority for Requirement: LCPH ATI 4943 / PTO 5306

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Record the fresh water flow to the spray scrubber on a daily basis.

B. Monitor and record "no visible emissions" observations on a weekly basis.

C. Records of all maintenance and repairs completed on the control device.

Authority for Requirement: LCPH ATI 4943 / PTO 5306

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 24
Discharge Style: Vertical, unobstructed
Stack Opening (inches, diameter): 16
Exhaust Temparture (°F): 65
Exhaust Flow Rate (scfm): 300
Authority for Requirement: LCPH ATI 4943 / PTO 5306

The temperature and flow rates 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 design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

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

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-522, SEP-539
Process Area: COGENERATION

Table Co-Gen 48. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-522	EU-522	Co-gen Turbine Lube Oil Tanks 1-5	Oil	19,800 gal/hr	CE-522	Precipitator
SEP-539	EU-539	Co-gen Turbine Lube Oil Tank No. 6	Oil	2,810 gallons	CE-539	Precipitator

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 49. Emission Limits.

EP	EU	Opacity	Permit #
SEP-522	EU-522	10%	LCPH ATI 4092 / PTO 4035
SEP-539	EU-539	10%	LCPH ATI 4093 / PTO 4293

Table Co-Gen 50. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-522 SEP-539	EU-522 EU-539	Opacity	20%	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"

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

Control Device:
A Smog-Hog Air Cleaning System (SH-10-PE-XB for SEP-539) shall be used to control particulate emissions. 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 4092 / PTO 4035
LCPH ATI 4093 / PTO 4293

Operating Limits:
A. The oil tank SEP-539 shall not exceed 2810 gallons.

Authority for Requirement: LCPH ATI 4093 / PTO 4293

Operating Condition Monitoring and Recordkeeping:
A. A log of operation shall be maintained for the operation of SEP-539.

B. Amount of oil consumed tracked on a 12-month rolling total.

C. All monitors shall be easily accessible to air pollution personnel.

D. All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the Linn County AQD and other federal or state air pollution regulatory agencies and/or their authorized representatives.

Authority for Requirement: LCPH ATI 4093 / PTO 4293

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Co-Gen 51.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (scfm)
SEP-522	4092 / 4035	23	Horizontal	10	140	850
SEP-539	4093 / 4293	20	Horizontal	12	140	132

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

Monitoring Requirements

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

Opacity Monitoring:

The facility shall check the opacity monthly during a period when the emission unit on this emission point is 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 >10 % 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.

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** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

[1] Facility maintained operation & maintenance plan is required for PM and PM_{10} for SEP-522 only.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-530
Process Area: COGENERATION

Table Co-Gen 52. Emission Point Description.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
SEP-530	EU-530A	Co-Gen Boiler No. 5	Coal	1500 MMBtu/hr
SEP-530	EU-530AN	Co-Gen Boiler No. 5	Natural Gas	0.28 MMCF/hr
SEP-530	EU-530AF	Co-Gen Boiler No. 5	Fuel Oil	

Table Co-Gen 53. Associated Equipment.

EP	EU	CE ID	CE Description	ME ID
SEP-530	EU-530A	CE-530A CE-530B CE-530C	Baghouse Selective Non-Catalytic Reduction Limestone Injection	ME-530A, ME-530B, ME-530C, ME-530D, ME-530E, ME-530F
SEP-530	EU-530AN	CE-530A	Baghouse	ME-530A, ME-530B, ME-530C, ME-530D, ME-530E, ME-530F

Applicable Requirements

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

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

Table Co-Gen 54. Opacity Emission Limits.

EP	Opacity	Authority for Requirement
SEP-530	20%, 6-minute average[1] except for one 6-minute period per hour of not more than 27%	DNR PSD Permit #98-A-507-P2 40 CFR §60.43b(f) Subpart Db 40 CFR §60.46b(a) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)
SEP-530	20%	LCPH ATI 5096 / PTO 5045 LCO 10.7

Table Co-Gen 55. Particulate Matter Emission Limits.

EP	Particulate Matter	PM_{10}[3]	Authority for Requirement
SEP-530	0.015 lb/MMBtu[2]	0.03 lb/MMBtu[2]	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045
SEP-530	22 ng/J, 0.051 lb/MMBtu		DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045 40 CFR §60.43b(a)(1) Subpart Db 40 CFR §60.46b(a) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Table Co-Gen 56. Sulfur Dioxide (SO_2) Emission Limits.

EP	Sulfur Dioxide (SO_2)	Authority for Requirement
SEP-530	0.36 lb/MMBtu[4], 92% reduction[5]	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045
SEP-530	674.88 lb/hr[2,6,7]	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045 40 CFR §60.42b Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)
SEP-530	1.2 lb/MMBtu 92% reduction of equivalent inlet SO_2 rate[5], 30-day rolling average	40 CFR §60.42b(a), (e), (g), Subpart Db 40 CFR §60.45b(a) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)
SEP-530	1.5 lb/MMBtu when burning liquid fuel	LCO 10.12(1)"b"
SEP-530	500 ppmv	567 IAC 23.3(3)"e" LCO 10.12(2)

Table Co-Gen 57. Nitrogen Oxides Emission Limits.

EP	NO_x	Authority for Requirement
SEP-530	0.07 lb/MMBtu[8,9]	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045
SEP-530	260 ng/J, 0.6 lb/MMBtu[10], 30-day rolling average	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045 40 CFR §60.44b(a)(3) Subpart Db 40 CFR §60.44b(h) through (i) Subpart Db 40 CFR §60.46(a) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)
SEP-530	86 ng/J, 0.2 lb/MMBtu[10], 30-day rolling average	40 CFR §60.44b(a)(1) Subpart Db 40 CFR §60.44b(h) through (i) Subpart Db 40 CFR §60.46b(a) Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Table Co-Gen 58. Volatile Organic Compounds (VOC) and Carbon Monoxide (CO) Emission Limits.

EP	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Authority for Requirement
SEP-530	0.0072 lb/MMBtu[2]	0.15 lb/MMBtu[2]	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045

Table Co-Gen 59. Other Emission Limits.

EP	Fluorides	Lead	Authority for Requirement
SEP-530	0.00124 lb/MMBtu[2]	0.000228 lb/MMBtu[11]	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045

[1] Opacity and particulate matter standards apply at all times except periods of startup, shutdown, or malfunction.
[2] Standard is expressed as the average of 3 runs.

[3] All particulate matter emissions after the baghouse were assumed to be PM_{10} for dispersion modeling purposes.
[4] This standard is a 30-day rolling average that includes periods of startup, shutdown, and malfunction.
[5] This reduction is in the equivalent inlet SO_2 emission rate. The equivalent inlet SO_2 emission rate means the stack emissions (on a lb/MMBtu heat input basis) that would result from the combustion of "as fired" fuels in the boiler without SO_2 absorption, assuming 100% conversion of sulfur in the fuels to SO_2.
[6] Emission rate used to demonstrate compliance with the National Ambient Air Quality Standards (NAAQS).
[7] SO_2 emission limit is determined by the following formula:

$$E_S = \frac{K_a H_a + K_b H_b}{H_a + H_b}$$

Where: E_s is the SO_2 emission limit (in either ng/J or lb/MMBtu heat input)
K_a is 520 ng/J or 1.2 lb/MMBtu
K_b is 340 ng/J or 0.8 lb/MMBtu
H_a is the heat input from the combustion of coal (in either J or MMBtu)
H_b is the heat input from the combustion of oil (in either J or MMBtu)

Only the heat input supplied from the combustion of coal or oil is counted. No credit is provided for the heat input from the combustion of natural gas, wood, municipal-type solids waste, or other fuels or heat input from other sources such as gas turbines, internal combustion engines, kilns, etc. This limit is a 30-day rolling average and applies at all times including periods of startup, shutdown, and malfunction.
[8] This standard is a 30-day rolling average that includes all periods of operation except for cold startup periods. A cold startup period is defined as that period of time when a coal-fired co-gen boiler is proceeding to increase the temperature in the lower combustor from less than 400°F to at least 1,500°F. This period shall last no more than forty-eight (48) hours and NO_x emissions data from this period shall be excluded when determining compliance with the permitted emission limit. Ammonia injection shall begin as soon as the lower combustor temperature reaches 1,500°F and the cold startup period will end at this time. All data from cold startup periods after the first fourty-eight (48) hours, or while ammonia is injected in the boiler, will be included in determining compliance with the optimized limit.
[9] This emission limit is waived for the specific SNCR optimization study activity as detailed in "Operating Limits" not to extend more than 380 days after the Initial Compliance Demonstration of "Initial Performance Testing Requirements."
[10] Per 40 CFR §60.44b(h) and 40 CFR §60.44(i), the limit is a 30-day rolling average that includes periods of startup, shutdown, and malfunction.
[11] This standard is a three (3) month average.

<u>Operational Limits & Requirements</u>
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:
Limestone injection shall be used to control SO_2 emissions, SNCR shall be used to reduce NO_x emissions, a baghouse shall be used to control particulate matter, and combustion controls shall be used to reduce VOC and CO emissions. 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 5096 / PTO 5045

30-Day Rolling NO_x and SO_2 Emission Limits Compliance:
The initial performance tests using a Continuous Emission Monitoring System (CEMS) shall be conducted over the first 30 consecutive boiler operating days. The first day of these tests shall be completed within 30 days after achieving maximum production rate but no later than 180 days after initial startup of the facility.

For the initial 30-day rolling average compliance test, NO_x and SO_2 from the boiler shall be monitored for 30 consecutive boiler operating days. The 30-day average emission limit shall be calculated as the average of all valid hourly emission rate data recorded by the CEMS during the 30-day test period.

The owner/operator shall use all valid hourly stack emission data recorded by the SO_2 CEM in conjunction with the corresponding gross heat input rate obtained through daily FSA to calculate each hourly emissions of SO_2 in pounds per hour (lb/hr). The lb/hr emission data shall be incorporated into the quarterly report submitted to the Department.

Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

30-Day Rolling SO_2 Percent Reduction Compliance:
If only coal is combusted, the procedures specified in §60.45b(c)(2) shall apply.

If coal is combusted with other fuels, the procedures specified in §60.45b(c)(3) shall apply.

The initial performance tests using a CEMS and a Fuel Sampling Analysis (FSA) system shall be conducted over the first 30 successive boiler operating days. The first day of tests shall be completed within 30 days after achieving maximum production rate but no later than 180 days after initial startup of the facility. Performance tests using CEMS cannot be conducted until each CEMS is certified and accepted by the IDNR for such purposes.

The owner shall use all valid hourly stack emissions data recorded by the CEMS in conjunction with the corresponding equivalent inlet SO_2 rate to calculate each hourly percent SO_2 reduction achieved by each boiler. The 30-day average percent SO_2 reduction shall be calculated as the average of all valid hourly percent reduction values collected during 30 consecutive boiler operating days during which the 92 percent reduction requirements applies. All valid emission data, including valid data collected during periods of startup, shutdown and malfunction, shall be used in the calculation.

A boiler operating day means any 24-hour period beginning at 7:00 a.m. and continuing to 7:00 a.m. the following day, during which any amount of fuel is combusted in the boiler. It is not necessary for fuel to be combusted continuously for the entire 24-hour period to qualify as a boiler operating day. Valid data includes any data collected during any period of fuel combustion and at all operating times.

Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

NSPS and NESHAP Applicability:
This emission unit is subject to Subparts A (General Provisions, 40 CFR §60.1 – 40 CFR §60.19) and Db (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR §60.40b-40 CFR §60.49b) of the New Source Performance Standards (NSPS).

This emission unit is subject to Subparts A (General Provisions, 40 CFR §63.1 – 40 CFR §63.15) and DDDDD (National Emission Standard for Industrial, Commercial, and Institutional Boilers and Process Heaters 40 CFR §63.7480 – 40 CFR §63.7575) of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

Operating Limits:
Operating limits for this emission source are:

A. The fuel combusted shall be limited to gas (for startup), oil (for startup), coal and less than 20% of blends of alternative fuels.

B. The alternative fuels combusted are limited to petroleum coke, tire derived fuel (TDF), wood derived fuels, corn gluten feed, corn germ, dried wastewater treatment biomass (from ADM's Cedar Rapids and Clinton facilities only), oat hulls, shell corn, seed corn, and corn screenings.

C. The owner or operator must receive an approval from the IDNR central office before a fuel other than specified above is combusted in the boilers. The IDNR shall reevaluate the fuel and may impose best available control technology (BACT) emission standards (including a percent reduction requirement) for the fuel type (or combination) in question. Other PSD-related procedures (e.g., dispersion modeling studies) may also be required.

D. The owner/operator shall conduct a study on the boiler to determine the optimized performance of the SNCR system within one year after the startup date. The Department shall review the optimization study and revise the NO_x emission limit as the Department determines is appropriate so as to reflect optimized performance of the SNCR system as indicated by the SNCR percent NO_x reduction for the various operating conditions tested. The Department will include a margin of up to twenty percent (20%) to provide for excess emissions over an averaging period adequate to reflect the variability of the operating parameters the Department determines have the dominant impact on emission rates (it is anticipated that this adjustment will not exceed the "provisionally guaranteed" 0.12 lb/MMBtu). Prior to initiating the study, ADM shall submit a detailed study plan for the IDNR approval including the specific dates of the optimization study and the boiler operation conditions to be tested. The optimization study shall monitor and record, but not limited to, the following items:

1. Reagent injection rates;
2. Boiler NO_x prior to injection;
3. Reagent injection to boiler NO_x ratios;
4. Boiler temperature;
5. CO, SO_2, and chlorine levels prior to injection;
6. Boiler load in MMBtu/hr and percent of rated capacity;
7. Steam generation rate;

8. Bed calcium to sulfur ratios;
9. Fuel type, percent ash and percent sulfur;
10. NO_x emission rate;
11. SNCR NO_x emission reduction, in percent;
12. Ammonia emission rates; and
13. Opacity

E. This information shall be collected or calculated hourly during the study unless otherwise specified in the detailed study plan to be submitted by ADM as approved by the IDNR. In addition, at least three separate visible emission tests shall be conducted for each set of operation/injection condition identified for the study.

F. Within one year after beginning operation, the optimization study data and report shall be submitted to the IDNR.

G. ADM shall submit a summary of study activities with the Quarterly CEM reports covering the same time period as the CEM report.

H. The owner shall furnish the IDNR written reports as follows:

1. Initial Compliance Demonstration Reports required in "Initial Performance Testing Requirements."

2. CEMS performance evaluation.

3. The maximum heat input capacity data from the demonstration of the boiler's maximum heat input capacity.

4. The owner shall submit a written emissions report to the IDNR central office each calendar quarter. Reports shall be submitted to the IDNR postmarked no later than 30 days after the end of the calendar quarter starting with the quarter in which initial startup of the boiler occurs. The report shall include the following:

   a. Calendar dates covered by the report;
   b. Dates and hours of startup, shutdown or malfunction;
   c. Type, quality and quantity of fuel combusted;
   d. Each hourly SO_2 and NO_x emissions, a summary of excess opacity emissions and diluent gas emission rate, as well as each operating day's 30-day average SO_2 and NO_x emission rate and percent SO_2 reduction determined during the reporting period;
   e. Each instance of excess emissions and of non-standard or manual data collection and how those data were collected, where data was excluded, exceeded full span of CEMS or was not available for any other reason, together with reasons for each of these instances of noncompliance and a description of the corrective actions taken, and any statistics required pursant to 40 CFR §60.49b(m);
   f. "F" factor, method of determination and fuel description;
   g. Description of any modification to the CEMS and its potential effect on CEMS performance;
   h. Results of daily CEMS drift test and quarterly accuracy assessments and related data as required under 40 CFR Part 60, Appendix F;
   i. Coal sampling and analysis results; and
   j. Lead (Pb) quarterly test results.

I. The owner or operator shall record the amounts of each fuel combusted during each day and calculate a new annual capacity factor for each fuel type at the end of each calendar month as specified in 40 CFR §60.49b(d).

J. The owner or operator shall record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually according to 40 CFR §60.49b(d).

K. The owner or operator shall record the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

L. The owner or operator shall furnish the IDNR with final detailed plans and specifications for all emission control equipment selected by the owner to meet the emission limits contained in "Emission Limits." This information shall be submitted to the IDNR at least 30 days in advance of construction of any control equipment.

Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. These records shall show the following:

A. The owner or operator shall maintain a record of periods of startup, shutdown, or malfunction. Operating hours shall be averaged on a 12-month basis rolled over monthly.

B. The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate a new annual capacity factor for each fuel type at the end of each calendar month as specified in 40 CFR §60.49b(d).

C. The owner or operator shall maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually according to 40 CFR §60.49b(d).

D. The owner or operator shall maintain records of the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

E. Recordkeeping for NESHAP Subpart DDDDD shall be done according to 40 CFR §63.7555 and 40 CFR §63.7560.

F. Reporting for NESHAP Subpart DDDDD shall be done according to 40 CFR §63.7545 and 40 CFR §63.7550.

Authority for Requirement: LCPH ATI 5096 / PTO 5045

Continuous Emission Monitoring and Fuel Sampling Analysis:
A. SO2 and NOx

The owner shall continuously demonstrate compliance with the SO_2 and NO_x emission limitations and SO_2 percent reduction requirements of this permit through the use of a CEMS and a FSA system. These systems shall be installed, operating and calibrated prior to beginning the initial compliance demonstration set forth according to 40 CFR §60.13.

Compliance with the SO_2 and NO_x emission rate limitations and the SO_2 percent reduction requirements shall be calculated as the average of all valid hourly emission rate data and valid hourly SO_2 percent reduction data for the 30 previous boiler operating days during which each standard applies. The owner shall calculate a new 30-day average at the end of each boiler operating day.

Unless otherwise approved by the Department, the selection of the CEMS span value (maximum data display output) for each parameter shall be those specified in 40 CFR Part 60 Subpart Db.

In addition to the provisions of 40 CFR Part 60, Appendix B, the performance specifications applicable to the CEMS required by the permit shall include a data recovery requirement of 90% and shall meet precision and accuracy requirements of 10% and 10% of the applicable standard, respectively, unless otherwise specified in the permit. When the minimum data requirements of the permit cannot be obtained, the methods and procedures of 40 CFR §60.47b(c) and §60.48b(f) shall be employed by the owner to obtain the required data.

Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

A.1. 30-Day Rolling NOx and SO2 Emission Limit Compliance

The owner shall install, calibrate, operate, maintain, audit, and record the output from CEMS capable of measuring SO_2, NO_x, and the appropriate diluent gas (oxygen or carbon dioxide). The CEMS shall be installed, calibrated, operated, maintained, and audited. Data shall be recorded in accordance with the provisions found at 40 CFR §60.13 (Monitoring Requirements); 40 CFR Part 60, Appendix B, Performance Specifications 2 and 3 (Specification and Test Procedures for SO_2, NO_x, and diluent CEMS); and 40 CFR Part 60, Appendix F (Quality Assurance Requirements for Gas CEMS Used for Compliance Determinations), as adopted by the Department by reference.

The CEMS shall be operated and data recorded during any period any fuel is combusted in the boiler. Hourly parts-per-million data recorded by the pollutant CEMS shall be converted to pound of pollutant per million BTU (lb/MMBtu) heat input using the equations and methodology specified in 40 CFR Part 60, Appendix A, Method 19 (as it appears in the July 1, 1997, Code of Federal Regulations). Hourly emission rate data shall be recorded and used by the owner/operator to calculate compliance with the applicable emission rates and percent reductions for the specified averaging times.

The owner shall successfully complete SO_2 and NO_x CEMS performance evaluations including relative accuracy and calibration drift assessment evaluations prior to beginning the initial compliance demonstration.

The owner shall notify the IDNR central office at least 30 days in advance of conducting any relative accuracy test.

Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

A.2. SO2 Percent Reduction Compliance

The owner shall install, calibrate, operate, and maintain a FSA system to collect "as-fired" fuel data. The FSA system shall meet or exceed the design and performance specifications set forth in 40 CFR Part 60, Appendix A, Method 19 (incorporating by reference ASTM Method D2234-76, et al).

Analyses shall be performed for weight percent sulfur (%S) and gross heat value (GHV, expressed in BTU/lb-fuel). The owner may develop an in-house fuel analysis program or may send collected samples to a laboratory for analysis. In either case, the analytical results shall be available to the proposed boiler operator within 72 hours of the sample collection time.

The "as-fired" fuel data shall be used to determine the equivalent hourly average SO_2 inlet rate to the boiler, and shall be used in conjunction with the SO_2 CEMS emission rate data to determine compliance with the SO_2 30-day rolling percent reduction limit.

The owner shall calculate an equivalent SO_2 rate for each bunker using the weight percent sulfur and the gross heating value obtained through daily FSA, using the equation specified in 40 CFR Pat 60, Appendix A, Method 19, Section 5.3.2, Equations 19 through 24.

If the equivalent inlet SO_2 rates for fuel contained in each day bunker which feeds to a single boiler differ by 0.2 lb-SO_2/MMBtu heat input or less, the arithmetic average of the two equivalent SO_2 inlet rates shall be used as the "equivalent hourly average SO_2 inlet rate" for each hourly percent reduction calculation during the boiler operation day. Otherwise, the owner shall: (1) use the smaller of the two equivalent SO_2 inlet rates as the "equivalent hourly average SO_2 inlet rate" for each hourly percent reduction calculation during the boiler operating day, or (2) calculate an "equivalent hourly average SO_2 inlet rate" for each hour of operation using the following heat input weighted equation:

$$Equivalent\ Hourly\ Average\ SO_2\ Inlet\ Rate = \frac{(W_1 * \%S_1 + W_2 * \%S_2)}{(W_1 * GHV_1 + W_2 * GHV_2)} * K$$

Where:
W_1 = Tons of coal fed to first of paired day bunkers during hour
W_2 = Tons of coal fed to second of paired day bunkers during hour
$\%S_1$ = Weight percent sulfur of coal contained in first bunker
$\%S_2$ = Weight percent sulfur of coal contained in second bunker
GHV_1 = Gross heating value of coal contained in first bunker
GHV_2 = Gross heating value of coal contained in second bunker

$$K = 20{,}000 \frac{(lb * BTU)}{(\% * mmBTU)}$$

Authority for Requirement: DNR PSD Permit #98-A-507-P1
LCPH ATI 3737 / PTO 4740

B. Opacity

A continuous monitoring system for measuring the opacity of emissions discharged into the atmosphere from the boiler shall be operated and maintained during all periods of operation of the boiler, except for continuous monitoring system breakdowns and repairs. Operation shall be

in conformance with 40 CFR §60.48b, which includes recording the output of the system. Reporting and recordkeeping requirements shall be in conformance with 40 CFR §60.49b, which shall include filing a quarterly report of excess emissions as outlined therein.

Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5095 / PTO 5045

C. Lead (Pb)

Fuel samples shall be analyzed for lead (Pb) and the results submitted in writing to the DNR on a quarterly basis. Fuel sampling shall be conducted as specified under "SO_2 Percent Reduction Compliance." Sample analysis for Lead (Pb) shall be performed as specified in SW-846 Method 6010. The quarterly testing results shall be reported as specified under "Operating Limits."

Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

NSPS General Requirements:
This boiler is subject to 40 CFR Part 60 Subpart Db, Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units. .

The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. 40 CFR §60.7(b)

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR §60.7(c). The summary report form shall contain the information and format required in 40 CFR §60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR §60.7(e).

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR §60.12

Authority for Requirement: 567 IAC 23.1(2)

Existing Large Solid Fuel Subcategory:
These emission units are subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and

Subpart DDDDD - NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR §63.7480 through 40 CFR §63.7575).

Authority for requirement: NESHAP Subpart A
NESHAP Subpart DDDDD

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 412.5
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, diameter): 144
Exhaust Temperature (°F): 310
Exhaust Flow Rate (scfm): 320,400
Authority for Requirement: DNR PSD Permit #98-A-507-P2
LCPH ATI 5096 / PTO 5045

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

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

Continuous Emissions Monitoring:

Pollutant:	**Sulfur Dioxide (SO_2)**
Continuous Emissions Monitor ID:	ME-530A
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 5, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60 Appendix F
Reporting & Recordkeeping:	40 CFR Part 60 Appendix A and B
Authority for Requirement:	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045 40 CFR §60.47b Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Nitrogen Oxides (NO_x)**
Continuous Emissions Monitor ID:	ME-530B
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 5, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60 Appendix F
Reporting & Recordkeeping:	40 CFR Part 60 Appendix A and B
Authority for Requirement:	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045 40 CFR §60.48b Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Opacity**
Continuous Emissions Monitor ID:	ME-530C
Operational Specifications:	40 CFR §60.13 and 40 CFR §60.45
Date of Most Recent System Calibration & Quality Assurance:	March 2, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60
Reporting & Recordkeeping:	40 CFR Part 60
Authority for Requirement:	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045 40 CFR §60.48b Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Other Parameters:

Pollutant:	**Diluent Gas (Oxygen)**
Continuous Emissions Monitor ID:	ME-530D
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	May 5, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60 Appendix F
Reporting & Recordkeeping:	40 CFR Part 60 Appendix A and B
Authority for Requirement:	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045 40 CFR §60.47b, §60.48b Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Flow**
Continuous Emissions Monitor ID:	ME-530E
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	February 24, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60 Appendix F
Reporting & Recordkeeping:	40 CFR Part 60 Appendix B
Authority for Requirement:	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045 40 CFR Part 60 Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(55)

Pollutant:	**Diluent Gas (Carbon Dioxide)**
Continuous Emissions Monitor ID:	ME-530F
Operational Specifications:	40 CFR Part 60
Date of Most Recent System Calibration & Quality Assurance:	February 24, 2016
Ongoing System Calibration/Quality Assurance:	40 CFR Part 60 Appendix F
Reporting & Recordkeeping:	40 CFR Part 60 Appendix A and B
Authority for Requirement:	DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045 40 CFR §60.47b, §60.48b Subpart Db 567 IAC 23.1(2)"ccc" LCO 10.9(2)"a"(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** ☒[1] **No** ☐

[1] Compliance Assurance Monitoring is required for PM_{10} and an agency approved operation and maintenance plan is required for PM; however, as PM and PM_{10} are controlled by the same equipment, and CAM is more stringent, the agency approved operation and maintenance plan requirement has been waived.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

The SO_2 and NO_X potentials to emit trigger Agency-approved operation & maintenance plans; however, existing CEMS at this emission point meet or exceed the Agency-approved operation & maintenance plan requirements for these pollutants.

Emission Point ID Number: SEP-532, SEP-533, SEP-535, SEP-536
Process Area: COGENERATION

Table Co-Gen 60. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-532	EU-532	Fly Ash Conveying System D	Fly Ash	30 ton/hr	CE-532	Baghouse
SEP-533	EU-533	Fly Ash Conveying System F	Fly Ash	30 ton/hr	CE-533	Baghouse
SEP-535	EU-535	Bed Ash Conveying System D	Bed Ash	7 ton/hr	CE-535	Baghouse
SEP-536	EU-536	Bed Ash Conveying System E	Bed Ash	7 ton/hr	CE-536	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 61. Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Permit #
SEP-532	EU-532	10%	0.01 gr/dscf		DNR PSD Permit #98-A-509-PS1 LCPH ATI 3735 / PTO 4739
SEP-532	EU-532			0.01 gr/dscf	LCPH ATI 3735 / PTO 4739
SEP-533	EU-533	10%	0.01 gr/dscf		DNR PSD Permit #98-A-510-PS1 LCPH ATI 3734 / PTO 4738
SEP-533	EU-533			0.01 gr/dscf	LCPH ATI 3734 / PTO 4738
SEP-535	EU-535	10%	0.01 gr/dscf		DNR PSD Permit #98-A-512-PS1 LCPH ATI 3732 / PTO 4736
SEP-535	EU-535			0.01 gr/dscf	LCPH ATI 3732 / PTO 4736
SEP-536	EU-536	10%	0.01 gr/dscf		DNR PSD Permit #98-A-512-PS1 LCPH ATI 3731 / PTO 4735
SEP-536	EU-536			0.01 gr/dscf	LCPH ATI 3731 / PTO 4735

Table Co-Gen 62. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-532	EU-532	Opacity	20%	LCO 10.7
SEP-533 SEP-535 SEP-536	EU-533 EU-535 EU-536	PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"

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 used to control particulate matter emissions. 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 3735 / PTO 4739
LCPH ATI 3734 / PTO 4738
LCPH ATI 3732 / PTO 4736
LCPH ATI 3731 / PTO 4735

Operating Condition Monitoring and Recordkeeping:

No operating limits are required for this emission point at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Co-Gen 63.

		Stack Characteristics				
EP	**LCPH ATI / PTO Numbers**	**Stack Height (feet, above ground)**	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (acfm)**
SEP-532	3735 / 4739	160	Vertical, unobstructed	16	140	5,363
SEP-533	3734 / 4738	160	Vertical, unobstructed	16	140	5,363
SEP-535	3732 / 4736	160	Vertical, unobstructed	14	140	3,478
SEP-536	3731 / 4735	160	Vertical, unobstructed	14	140	3,478

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

Monitoring Requirements

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

Stack Testing:

The following stack tests shall be performed:

Pollutant – Particulate Matter (PM_{10})[1]
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 201A with 202 (40 CFR Part 51, Appendix M)
Authority for Requirement – 567 IAC 22.108(3)

[1] Stack testing for PM10 is required for only one of the Fly Ash Conveying Systems (SEP-532 or SEP-533), and only one of the Bed Ash Conveying Systems (SEP-535 or SEP-536) to be considered representative of emissions and compliance from all four emission points. If the test results for any pollutant are 90% or above of the applicable standard, additional testing will be required of the other emission point of the same type. A test protocol must be approved by the Department's stack testing personnel prior to testing.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 >10% 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.

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] Compliance Assurance Monitoring is required for PM and a facility maintained operation and maintenance plan is required for PM_{10}; however, because PM and PM_{10} are controlled by the same equipment, and CAM is more stringent, the facility maintained operation and maintenance plan requirement has been waived.

Authority for Requirement: 567 IAC 22.108(3)

Refer to Appendix B, CAM Plans, for the complete compliance assurance monitoring plan.

Emission Point ID Number: SEP-537
Process Area: COGENERATION

Table Co-Gen 64. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-537	EU-537	Coal Bunker	Coal	600 ton/hr	CE-537	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 65. Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Permit #
SEP-537	EU-537	10%	0.01 gr/dscf		DNR PSD Permit #98-A-514-P2 LCPH ATI 5945 / PTO 6055
SEP-537	EU-537			0.01 gr/dscf	LCPH ATI 5945 / PTO 6055
SEP-537	EU-537		2.14 lb/hr	2.14 lb/hr	LCPH ATI 5945 / PTO 6055

Table Co-Gen 66. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-537	EU-537	Opacity	20%	40 CFR §60.252(c) Subpart Y 567 IAC 23.1(2)"v" LCO 10.9(2)"a"(22) LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"

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 used to control particulate matter emissions. 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 5945 / PTO 6055

NSPS and NESHAP Applicability:
This emission unit is subject to 40 CFR Part 60 Subpart Y – Standards of Performance for Coal Preparation Plants.

This emission unit is subject to 40 CFR Part 60 Subpart A – General Provisions.

This emission unit is not subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) at this time.

Authority for Requirement: DNR PSD Permit #98-A-514-P2
LCPH ATI 5945 / PTO 6055

NSPS Requirements:
These units are subject to 40 CFR Part 60 NSPS Subpart Y, Standards of Performance for Coal Preparation Plants.

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR §60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR §60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR §60.12

Authority for Requirement: 567 IAC 23.1(2)"v"

Operating Limits:

A. The pressure drop across the baghouse, CE-537, shall be maintained between 0.5 and 8.0 inches of water.

B. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: DNR PSD Permit #98-A-514-P2

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

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. Pressure drop readings across the baghouse, CE-537, shall be recorded on a weekly basis while the control equipment is in operation.

C. Record all maintenance and repairs completed to the control equipment.

Authority for Requirement: DNR PSD Permit #98-A-514-P2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 195
Discharge Style: Vertical, unobstructed
Stack Opening, (diameter, inches): 24
Exhaust Temperature (°F): 70
Exhaust Flow Rate (acfm): 25,000
Authority for Requirement: DNR PSD Permit #98-A-514-P2
LCPH ATI 5945 / PTO 6055

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

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

Stack Testing:
Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 >10 % 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.

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** ☒

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-542, SEP-543
Process Area: COGENERATION

Table Co-Gen 67. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-542	EU-542	Cogen Biomass Bin #1	Biomass	16,000 gal/hr	CE-542	Baghouse
SEP-543	EU-543	Cogen Biomass Bin #2	Biomass	16,000 gal/hr	CE-543	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 68. Emission Limits.

EP	EU	PM_{10}	Particulate Matter	Permit #
SEP-542 SEP-543	EU-542 EU-543	0.21 lb/hr	0.21 lb/hr	LCPH ATI 5332 / PTO 5479 LCPH ATI 5333 / PTO 5480

Table Co-Gen 69. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-542 SEP-543	EU-542 EU-543	Opacity	20%	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"

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 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 5332 / PTO 5479
LCPH ATI 5333 / PTO 5480

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. Pressure drop across the baghouse (CE-542, CE-543) shall be maintained between 0.5 inches of water column to 6.0 inches of water column.

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

Authority for Requirement: LCPH ATI 5332 / PTO 5479
LCPH ATI 5333 / PTO 5480

Operating Condition Monitoring and Recordkeeping:
Unless not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

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. Monitor and record pressure drop across the control equipment (CE-542, CE-543) on a weekly basis while the emission unit is in operation.

C. Monitor and record any maintenance and repair completed on the control equipment.

Authority for Requirement: LCPH ATI 5332 / PTO 5479
LCPH ATI 5333 / PTO 5480

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Co-Gen 70.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (acfm)
SEP-542	5332 / 5479	73	Vertical, unobstructed	6	80	1,200
SEP-543	5333 / 5480	73	Vertical, unobstructed	6	80	1,200

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

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

Stack Testing:
Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record that reading. Maintain a written record of 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 8 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 8 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.

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** ☐
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☐ **No** ☒

[1] Facility maintained operation and maintenance plan is required for PM.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-544
Process Area: COGENERATION

Table Co-Gen 71. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-544	EU-544	Cogen Limestone Conveying Dust Collector	Limestone	250 ton/hr (each)	CE-544A CE-544B CE-544C CE-544D	Cartridge Filters

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Co-Gen 72. Emission Limits.

EP	EU	PM-10	Particulate Matter	Permit #
SEP-544	EU-544	0.005 gr/dscf 0.17 lb/hr	0.005 gr/dscf 0.17 lb/hr	LCPH ATI 6284 / PTO 6266

Table Co-Gen 73. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-544	EU-544	Opacity	20%	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"

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

Control Device:
A cartridge filter shall be used to control particulate matter emissions. 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 6284 / PTO 6266

Operating Limits:
The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. The pressure drop across each of the cartridge filters (CE-544A, CE-544B, CE-544C, and CE-544D) shall be maintained between 0.25 and 5.0 inches of water.

B. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 6284 / PTO 6266

Operating Condition Monitoring and Recordkeeping:
If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

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. Pressure drop reading across each of the cartridge filters (CE-544A, CE-544B, CE-544C, and CE-544D) shall be recorded on a weekly basis while the control equipment is in operation.

C. Record all maintenance and repair completed to the control equipment.

Authority for Requirement: LCPH ATI 6284 / PTO 6266

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 155
Discharge Style: Vertical, unobstructed
Stack Opening, (diameter, inches): 14
Exhaust Temperature (°F): 68
Exhaust Flow Rate (acfm): 4,000
Authority for Requirement: LCPH ATI 6284 / PTO 6266

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

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

Stack Testing:
Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record that reading. Maintain a written record of 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 8 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 8 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.

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** ☒

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-009
Process Area: BULK CHEMICALS

Associated Equipment
Associated Emission Unit ID Numbers: EU-9
Emissions Control Equipment ID Number: CE-009
Emissions Control Equipment Description: Scrubber

Emission Unit vented through this Emission Point: EU-9
Emission Unit Description: Soda Ash Slur O Lyzer
Raw Material/Fuel: Soda Ash
Rated Capacity: 16,250 lb/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 4448 / PTO 4700
LCO 10.7

Pollutant: PM_{10}
Emission Limit(s): 0.1 gr/dscf, 0.89 lb/hr, 3.92 tpy
Authority for Requirement: LCPH ATI 4448 / PTO 4700

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf, 0.89 lb/hr, 3.92 tpy
Authority for Requirement: LCPH ATI 4448 / PTO 4700
567 IAC 23.3(2)"a"(2)
LCO 10.9(1)"a"

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

Control Device:
A Venturi scrubber shall be used to control particulate emissions. 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 4448 / PTO 4700

Operating Limits:

A. Water feed rate to the scrubber shall be maintained at a level not less than 17.4 gpm

B. Maximum capacity: 16,250 lb/hr

Authority for Requirement: LCPH ATI 4448 / PTO 4700

Operating Condition Monitoring and Recordkeeping:
All monitors shall be easily accessible to air pollution personnel. All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County AQD and other federal or state air pollution regulatory agencies and/or their authorized representatives.

A. A log of operation shall be maintained for the operation of the above-listed unit.

B. Weekly pressure drop readings across scrubber.

C. Weekly recirculation water flow rates (gpm) to the scrubber.

D. Records of all maintenance and repair completed to the control device.

Authority for Requirement: LCPH ATI 4448 / PTO 4700

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 20
Discharge Style: Vertical
Stack Opening, (inches, diameter): 12
Exhaust Temperature (°F): 130-150
Exhaust Flow Rate (acfm): 1200
Authority for Requirement: LCPH ATI 4448 / PTO 4700

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

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

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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** ☒

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-020
Process Area: BULK CHEMICALS

Associated Equipment
Associated Emission Unit ID Numbers: EU-20
Emissions Control Equipment ID Number: CE-020
Emissions Control Equipment Description: Scrubber

Emission Unit vented through this Emission Point: EU-20
Emission Unit Description: Hydrochloric Acid Storage Vent
Raw Material/Fuel: Hydrochloric Acid
Rated Capacity: 34,000 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"(2)
LCO 10.9(1)"a"

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

Stack Testing
Stack testing is not required at this time.

Opacity monitoring is not required at this time.

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)

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-033
Process Area: BULK CHEMICALS

Associated Equipment
Associated Emission Unit ID Numbers: EU-33
Emissions Control Equipment ID Number: CE-033
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-33
Emission Unit Description: Bulk Precoat System
Raw Material/Fuel: Diatomaceous Earth
Rated Capacity: 33,000 lb/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 3981 / PTO 4034
LCO 10.7

Pollutant: PM-10
Emission Limit(s): 0.1 gr/scf, 0.86 lb/hr, 3.75 tpy
Authority for Requirement: LCPH ATI 3981 / PTO 4034

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/scf, 0.86 lb/hr, 3.75 tpy
Authority for Requirement: LCPH ATI 3981 / PTO 4034
567 IAC 23.3(2)"a"(2)
LCO 10.9(1)"a"

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

Operating Limits:
Maximum equipment design rate: 33,000 lb/hr

Exhaust airflow rate: 1000 scfm

Authority for Requirement: LCPH ATI 3981 / PTO 4034

Monitoring Requirements:
The following information shall be monitored:

A. Daily pressure drop readings

B. All monitors shall be easily accessible to air pollution personnel.

Authority for Requirement: LCPH ATI 3981 / PTO 4034

Recordkeeping Requirements:
A logbook of operation shall be maintained for this source. The following information shall be recorded and kept on-site for a period of no less than five years.

A. Daily pressure drop readings

B. Records of all maintenance and repair completed on the control device

These records shall be available on site for viewing by air pollution control personnel.

Authority for Requirement: LCPH ATI 3981 / PTO 4034

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

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-165
Process Area: BULK CHEMICALS

Associated Equipment
Associated Emission Unit ID Numbers: EU-165

Emission Unit vented through this Emission Point: EU-165
Emission Unit Description: Plate Wash Tanks
Raw Material/Fuel: Water and Rydlyme
Rated Capacity: 1000 gallons

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 4283 / PTO 4336
LCO 10.7

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

Operating Limits:
The maximum operating capacity of this device is:

Tank Capacity: 1000 gallons each

Exhaust Airflow Rate: 9500 acfm

Authority for Requirement: LCPH ATI 4283 / PTO 4336

Compliance Monitoring:
The following information shall be monitored:

A. Airflow from this source shall not exceed 9500 acfm. Any increase in airflow would be considered a modification and would necessitate a new Authorization to Install permit.

B. The total usage of cleaning solvents that contain VOCs or VHAPs from this source shall not exceed a yearly total of 2000 gallons calculated on a 12-month rolling average. The maximum VOC density (content) of the cleaning material shall not exceed 9 pounds per gallon. Cleaning solvents that do not contain regulated pollutants do not need to be recorded.

Authority for Requirement: LCPH ATI 4283 / PTO 4336

Recordkeeping Requirements:
A log of operation shall be maintained for the facility. The following information shall be recorded and kept on-site for a period of no less than five years.

A. The total usage of cleaning solvents that contain VOCs or VHAPs from this source shall not exceed a yearly total of 2000 gallons calculated on a 12-month rolling average. The maximum VOC density (content) of the cleaning material shall not exceed 9 pounds per gallon. Cleaning solvents that do not contain regulated pollutants do not need to be recorded.

B. MSDSs or other documentation showing the VOC content of the cleaning solvents used must be kept with these records.

C. These records shall be available for viewing by Air Pollution Control personnel upon request.

Authority for Requirement: LCPH ATI 4283 / PTO 4336

Monitoring Requirements

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

Stack testing is not required.

Opacity monitoring is not required.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-240, SEP-242, SEP-243, SEP-244, SEP-245, SEP-246, SEP-247 SEP-248, SEP-249

Process Area: WASTE TREATMENT

Table Waste Treatment-1. Associated Equipment.

EP	EU	EU Description	Raw Material/Fuel	Rated Capacity
SEP-240	EU-240	Equalization Basin	Wastewater	432,000 gal/hr
SEP-242	EU-242	West Aeration Basin	Wastewater	241,560 gal/hr
SEP-243	EU-243	East Aeration Basin	Wastewater	241,560 gal/hr
SEP-244	EU-244	Biototron #1	Wastewater	63,420 gal/hr
SEP-245	EU-245	Biototron #2	Wastewater	63,420 gal/hr
SEP-246	EU-246	Biototron #3	Wastewater	63,420 gal/hr
SEP-247	EU-247	East Clarifier	Wastewater	114,720 gal/hr
SEP-248	EU-248	Center Clarifier	Wastewater	114,720 gal/hr
SEP-249	EU-249	West Clarifier	Wastewater	114,720 gal/hr

Applicable Requirements

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

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

Table Waste Treatment-2. Emission Limits.

EP	EU	VOC	Single HAP	Total HAP	LCPH Permit #
SEP-240	EU-240	0.339 lb/hr, 1.486 tpy	9.4 tpy	24.4 tpy	ATI 4843 / PTO 5309
SEP-242	EU-242	2.90 lb/hr	-	-	ATI 5810 / PTO 5968
SEP-243	EU-243	2.90 lb/hr	-	-	ATI 5811 / PTO 5969
SEP-244	EU-244	0.184 lb/hr, 0.81 tpy	9.4 tpy	24.4 tpy	ATI 4847 / PTO 5312
SEP-245	EU-245	0.184 lb/hr, 0.81 tpy	9.4 tpy	24.4 tpy	ATI 4848 / PTO 5313
SEP-246	EU-246	0.184 lb/hr, 0.81 tpy	9.4 tpy	24.4 tpy	ATI 4849 / PTO 5314
SEP-247	EU-247	0.151 lb/hr, 0.662 tpy	9.4 tpy	24.4 tpy	ATI 4850 / PTO 5315
SEP-248	EU-248	0.151 lb/hr, 0.662 tpy	9.4 tpy	24.4 tpy	ATI 4851 / PTO 5316
SEP-249	EU-249	0.151 lb/hr, 0.662 tpy	9.4 tpy	24.4 tpy	ATI 4852 / PTO 5317

Operational Limits & Requirements

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

Operating Limits:

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

A. The equalization basin is limited to a flow rate of 7,200 gpm.

Authority for Requirement: LCPH ATI 4843 / PTO 5309

Operating Condition Monitoring & Recordkeeping:

A. Monitor and record the flow rate to the equalization basin on a weekly basis.

If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 4843 / PTO 5309

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Waste Treatment-3.

EP	EU	LCPH Permit Numbers	Stack Characteristics			
			Stack Height (feet, above ground)	Discharge Style and Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (acfm)
SEP-240	EU-240	ATI 4843 / PTO 5309	18	Vertical, unobstructed 60' x 120'	135	650
SEP-242	EU-242	ATI 5810 / PTO 5968	5	Vertical, unobstructed 3648" x 2580"	95	8500
SEP-243	EU-243	ATI 5811 / PTO 5969	5	Vertical, unobstructed 3648" x 2580"	95	8500
SEP-244	EU-244	ATI 4847 / PTO 5312	18	Vertical, unobstructed 92'	95	7600
SEP-245	EU-245	ATI 4848 / PTO 5313	18	Vertical, unobstructed 92'	95	7600
SEP-246	EU-246	ATI 4849 / PTO 5314	18	Vertical, unobstructed 92'	95	7600
SEP-247	EU-247	ATI 4850 / PTO 5315	3	Vertical, unobstructed 66'	80	Undetermined
SEP-248	EU-248	ATI 4851 / PTO 5316	3	Vertical, unobstructed 66'	80	Undetermined
SEP-249	EU-249	ATI 4852 / PTO 5317	3	Vertical, unobstructed 66'	80	Undetermined

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

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-087, SEP-089
Process Area: BIOMASS PROCESSING

Table Biomass-1. Associated Equipment.

EP	EU	EU Description	Raw Material/Fuel	Rated Capacity
SEP-087	EU-87	Biosolids Dryer	Biosolids	4.2 ton/hr
SEP-089	EU-89	Biosolids Dryer	Biosolids	4.2 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Biomass-2. Emission Limits.

EP	EU	SO_2	Permit #
SEP-087	EU-87	500 ppmv, 1.83 lb/hr	LCPH ATI 4608 / PTO 5307
SEP-089	EU-89	500 ppmv, 1.83 lb/hr	LCPH ATI 4619 / PTO 5308

Table Biomass-3. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-087 SEP-089	EU-087 EU-089	Opacity	20%	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"
		PM/PM_{10}	0.06 lb/hr	LCPH ATI 4608 / PTO 5307 LCPH ATI 4619 / PTO 5308
		SO_2	500 ppmv	567 IAC 23.3(3)"e" LCO 10.12(2)

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

Operating Limits:
The biomass dryers, emission points 87 and 89, shall vent into the west aeration basin. Prior to exhausting into the aeration basin, emission from the dryer shall be controlled by a spray tower condenser and a liquid ring exhaust blower.

Authority for Requirement: LCPH ATI 4608 / PTO 5307
LCPH ATI 4619 / PTO 5308

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Biomass-4.

EP	EU	LCPH Permit Numbers	Stack Characteristics			
			Stack Height (feet, above ground)	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (acfm)
087	087	ATI 4608 / PTO 5307	Stack discharges at the bottom of the west aeration basin	4	130	368[1]
089	089	ATI 4619 / PTO 5308	Stack discharges at the bottom of the west aeration basin	4	130	368[1]

[1] Exhaust flow rate from the dryer into the aeration basin.

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

Monitoring Requirements

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-098, SEP-099, SEP-100
Process Area: BIOMASS PROCESSING

Table Biomass-5. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE ID	CE Description
SEP-098	EU-98	Biosolids Storage Bin #1	Dried Biosolids	1.25 ton/hr	CE-098	Baghouse
SEP-099	EU-99	Biosolids Storage Bin #2	Dried Biosolids	1.25 ton/hr	CE-099	Baghouse
SEP-100	EU-100	Biosolids Storage Bin #3	Dried Biosolids	1.25 ton/hr	CE-100	Baghouse

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Biomass-6. Emission Limits.

EP	EU	Opacity	PM / PM_{10}	Permit #
SEP-098	EU-98	20%	0.02 gr/dscf, 0.17 lb/hr	ATI 4620 / PTO 5013
SEP-099	EU-99	20%	0.02 gr/dscf, 0.17 lb/hr	ATI 4621 / PTO 5014
SEP-100	EU-100	20%	0.02 gr/dscf, 0.17 lb/hr	ATI 4622 / PTO 5015

Table Biomass-7. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-098	EU-98	Opacity	20%	LCO 10.7
SEP-099 SEP-100	EU-99 EU-100	PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"

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 used to control particulate matter emissions. 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 4620 / PTO 5013
LCPH ATI 4621 / PTO 5014
LCPH ATI 4622 / PTO 5015

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Monitor and record pressure drop on a weekly basis

Authority for Requirement: LCPH ATI 4620 / PTO 5013
LCPH ATI 4621 / PTO 5014
LCPH ATI 4622 / PTO 5015

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Biomass-8.

			Stack Characteristics				
EP	**EU**	**LCPH Permit Numbers**	**Stack Height (feet, above ground)**	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (scfm)**
SEP-098	EU-98	ATI 4620 / PTO 5013	65	Horizontal	6	130-165	1000
SEP-099	EU-99	ATI 4621 / PTO 5014	65	Horizontal	6	135	1000
SEP-100	EU-100	ATI 4622 / PTO 5015	65	Horizontal	6	130-165	1000

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

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

Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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** ☒

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-101
Process Area: BIOMASS PROCESSING

Associated Equipment
Associated Emission Unit ID Numbers: EU-101
Emissions Control Equipment ID Number: CE-101
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: EU-101
Emission Unit Description: Biomass Truck Loadout
Raw Material/Fuel: Dried Biomass
Rated Capacity: 20 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 4623 / PTO 5086
LCO 10.7

Pollutant: PM_{10}
Emission Limit(s): 0.17 lb/hr
Authority for Requirement: LCPH ATI 4623 / PTO 5086

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf, 0.17 lb/hr
Authority for Requirement: LCPH ATI 4623 / PTO 5086

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 used to control particulate matter emissions. 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 4623 / PTO 5086

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 25
Discharge Style: Vertical, unobstructed
Stack Opening, (inches, dia.): 6 x 6
Exhaust Temperature (°F): 135
Exhaust Flow Rate (scfm): 1000

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

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

Stack testing is not required at this time.

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. The following items shall be recorded:

The owner or operator shall monitor and record "no visible emissions" on a weekly basis.

Maintenance and repair completed on the control devices.

Authority for Requirement: LCPH ATI 4623 / PTO 5086

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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.

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)

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-400, SEP-401

Process Area: DRY MILL

Table Dry Mill 1. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE	CE Description
SEP-400	EU-400A	#3 Truck Scale	Corn	20,000 bu/hr	CE-400	Baghouse
SEP-400	EU-400C	Truck Dump Receiving Drag #3	Corn	30,000 bu/hr	CE-400	Baghouse
SEP-400	EU-400E	#2 Rail Dump	Corn	30,000 bu/hr	CE-400	Baghouse
SEP-400	EU-400F	#2 Rail Dump Transfer Drag	Corn	30,000 bu/hr	CE-400	Baghouse
SEP-400	EU-400G	#2 Rail Receiving Drag	Corn	30,000 bu/hr	CE-400	Baghouse
SEP-400	EU-400H	#3 Bucket Leg	Corn	30,000 bu/hr	CE-400	Baghouse
SEP-400	EU-400I	#2 Reclaim Conveyor	Corn	30,000 bu/hr	CE-400	Baghouse
SEP-400	EU-400J	#3 Headhouse Top Loading Conveyor	Corn	30,000 bu/hr	CE-400	Baghouse
SEP-400	EU-400L	#2 Silo Storage Bin	Corn	486,000 bushels	CE-400	Baghouse
SEP-400	EU-400M	#4 Silo Storage Bin	Corn	486,000 bushels	CE-400	Baghouse
SEP-400 SEP-401	EU-400P	Bulk Weigh Scale Belt	Corn	30,000 bu/hr	CE-400 CE-401	Baghouse Baghouse
SEP-401	EU-401A	#1 Truck Scale	Corn	20,000 bu/hr	CE-401	Baghouse
SEP-400 SEP-401	EU-401B	#2 Truck Scale	Corn	20,000 bu/hr	CE-400 CE-401	Baghouse Baghouse
SEP-401	EU-401C	Truck Dump Receiving Drag #1	Corn	30,000 bu/hr	CE-401	Baghouse
SEP-400 SEP-401	EU-401D	Truck Dump Receiving Drag #2	Corn	30,000 bu/hr	CE-400 CE-401	Baghouse Baghouse
SEP-401	EU-401E	#1 Rail Dump	Corn	30,000 bu/hr	CE-401	Baghouse
SEP-401	EU-401F	#1 Rail Dump Transfer Drag	Corn	30,000 bu/hr	CE-401	Baghouse
SEP-401	EU-401G	#1 Rail Receiving Drag	Corn	30,000 bu/hr	CE-401	Baghouse
SEP-400 SEP-401	EU-401H	#5 Bucket Leg	Corn	30,000 bu/hr	CE-400 CE-401	Baghouse Baghouse
SEP-400 SEP-401	EU-401I	Rail Transfer Conveyor	Corn	30,000 bu/hr	CE-400 CE-401	Baghouse Baghouse

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE	CE Description
SEP-401	EU-401J	#1 Bucket Leg	Corn	486,000 bushels	CE-401	Baghouse
SEP-400 SEP-401	EU-401K	#2 Bucket Leg	Corn	30,000 bu/hr	CE-400 CE-401	Baghouse
SEP-401	EU-401L	#4 Bucket Leg	Corn	30,000 bu/hr	CE-401	Baghouse
SEP-401	EU-401M	#1 Reclaim Conveyor	Corn	30,000 bu/hr	CE-401	Baghouse
SEP-401	EU-401N	#2 Headhouse Top Loading Conveyor	Corn	30,000 bu/hr	CE-401	Baghouse
SEP-401	EU-401O	#1 Headhouse Top Loading Conveyor	Corn	30,000 bu/hr	CE-401	Baghouse
SEP-400 SEP-401	EU-401P	Surge Bin	Corn	10,000 bu/hr	CE-400 CE-401	Baghouse Baghouse
SEP-400 SEP-401	EU-401Q	Bulk Weigh Scale Belt	Corn	30,000 bu/hr	CE-400 CE-401	Baghouse Baghouse
SEP-401	EU-401S	#1 Silo Storage Bin	Corn	486,000 bushels	CE-401	Baghouse
SEP-401	EU-401T	#3 Silo Storage Bin	Corn	486,000 bushels	CE-401	Baghouse
SEP-401	EU-401U	#5 Silo Storage Bin	Corn	486,000 bushels	CE-401	Baghouse
SEP-400 SEP-401	EU-401W	#1 Fines Storage Bin	Corn	45,000 bu/hr	CE-400 CE-401	Baghouse Baghouse
SEP-400 SEP-401	EU-401X	Cracked Corn & Fines Conveyor	Corn	15,000 bu/hr	CE-400 CE-401	Baghouse Baghouse
SEP-400 SEP-401	EU-401Y	Cracked Corn & Fines Weigh Belt	Corn	15,000 bu/hr	CE-400 CE-401	Baghouse Baghouse
SEP-400 SEP-401	EU-401Z	Cracked Corn & Fines Elevator	Corn	15,000 bu/hr	CE-400 CE-401	Baghouse Baghouse

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Applicable Requirements

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

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

Table Dry Mill 2. Opacity Emission Limits.

EP	EU	Opacity	Authority for Requirement
SEP-400 SEP-401	EU-400 EU-401	0%[1,2]	DNR PSD Permit #07-A-533-P1 DNR PSD Permit #07-A-534-P1
SEP-400 SEP-401	EU-400 EU-401	0% when handling grain[3]	40 CFR §60.302(c)(2) Subpart DD

EP	EU	Opacity	Authority for Requirement
SEP-400 SEP-401	EU-400 EU-401	5% when unloading truck and/or rail[3]	40 CFR §60.302(c)(1) Subpart DD

Table Dry Mill 3. Particulate Matter Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-400 SEP-401	EU-400 EU-401	Particulate Matter	0.004 gr/dscf[4] 2.09 lb/hr[4]	DNR PSD Permit #07-A-533-P1 DNR PSD Permit #07-A-534-P1
			0.01 gr/dscf[4]	40 CFR §60.302(b)(1) Subpart DD
		PM_{10}	0.004 gr/dscf[4] 2.09 lb/hr[4]	DNR PSD Permit #07-A-533-P1 DNR PSD Permit #07-A-534-P1
		$PM_{2.5}$	0.004 gr/dscf[4]	DNR PSD Permit #07-A-533-P1 DNR PSD Permit #07-A-534-P1

Table Dry Mill 4. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-400 SEP-401	EU-400 EU-401	Opacity	40%	567 IAC 23.3(2)"d"
			20%	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"

[1] The emission limit is a six (6) minute average.
[2] An exceedance of the indicator opacity of this emission point will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).
[3] Standard is expressed as a six-minute average and applies at all times, except during periods of startup, shutdown, and malfunction.
[4] The emission limit is expressed as the average of three (3) runs.

<u>Operational Limits & Requirements</u>
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:
A baghouse shall be used to control particulate matter emissions. 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 devices at all times.

Authority for Requirement: DNR PSD Permit #07-A-533-P1
DNR PSD Permit #07-A-534-P1

NSPS and NESHAP Applicability:
These emission units are subject to Subpart A - General Provisions (40 CFR §60.1 through 40 CFR §60.19) of the New Source Performance Standards (NSPS) and Subpart DD - Standards of Performance for Grain Elevators (40 CFR §60.300 through 40 CFR §60.304) and is also subject to the requirements of 567 IAC 23.1(2)"ooo".

Authority for Requirement: DNR PSD Permit #07-A-533-P1
DNR PSD Permit #07-A-534-P1

Operating Limits:

A. All grain unloading activities, including both truck and rail unloading, shall be conducted within an enclosure. During truck unloading, the enclosure shall be closed via means of a door on both the entrance and exit of the unloading bay and a wall that extends at least 5 feet above the height of both doors that separates one bay from another. During rail unloading, the enclosure shall be enclosed via a physical barrier which totally covers any opening. If plastic strips are used to cover the rail enclosure openings, the plastic strips shall be replaced periodically when they become warped or damaged and are no longer providing an effective enclosure.

B. All grain unloading from hopper bottom trucks and railcars shall use a "choke flow" method to minimize fugitive dust emissions.

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

D. The differential pressure measured across the control equipment (CE-400, CE-401) shall be maintained between 0.5 inches of water column and 6 inches of water column, with the exception of unit startup.

Authority for Requirement: DNR PSD Permit #07-A-533-P1
DNR PSD Permit #07-A-534-P1

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall properly operate and maintain equipment to continuously monitor the baghouse pressure drop. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals, or per written facility-specific operation and maintenance plan.

B. The owner or operator shall collect and record the differential pressure, in inches of H_2O, on a continuous basis. The requirement shall not apply on the days of the baghouse or the equipment that the baghouse controls is not in operation.

C. The owner or operator shall maintain a record of the range of baghouse pressure drop observed during the last successful compliance test for reference.

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 owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and monitoring devices.

Authority for Requirement: DNR PSD Permit #07-A-533-P1
DNR PSD Permit #07-A-534-P1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Dry Mill 5.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (scfm)
SEP-400	6564 / 6563	150	Vertical, unobstructed	54	Ambient	61,000
SEP-401	6565 / 6564	150	Vertical, unobstructed	54	Ambient	61,000

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

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

Stack Testing:
Stack testing is not required at this time.

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 8 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 > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 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.

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** ☒[1]

[1] CAM has been waived. DNR PSD Permits #07-A-533-P1 and #07-A-534-P1 have CAM equivalent monitoring and recordkeeping required.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-403

Process Area: DRY MILL

Table Dry Mill 6. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE	CE Description
SEP-403	EU-403A	Hammermill #1	Corn	2,500 bu/hr	CE-403A	Baghouse
SEP-403	EU-403B	Hammermill #2	Corn	2,500 bu/hr	CE-403A	Baghouse
SEP-403	EU-403C	Hammermill #3	Corn	2,500 bu/hr	CE-403A	Baghouse
SEP-403	EU-403D	Hammermill #4	Corn	2,500 bu/hr	CE-403A	Baghouse
SEP-403	EU-403F	Hammermill #5	Corn	2,500 bu/hr	CE-403B	Baghouse
SEP-403	EU-403G	Hammermill #6	Corn	2,500 bu/hr	CE-403B	Baghouse
SEP-403	EU-403H	Hammermill #7	Corn	2,500 bu/hr	CE-403B	Baghouse
SEP-403	EU-403I	Elevator to Mill Corn Belt Conveyor A	Corn	20,000 bu/hr	CE-403C	Baghouse
SEP-403	EU-403J	Elevator to Mill Corn Belt Conveyor B	Corn	20,000 bu/hr	CE-403C	Baghouse
SEP-403	EU-403M	Rotex Scalper A	Corn	20,000 bu/hr	CE-403C	Baghouse
SEP-403	EU-403N	Rotex Scalper B	Corn	20,000 bu/hr	CE-403C	Baghouse
SEP-403	EU-403O	Mill Storage Hopper A	Corn	2,860 bu/hr	CE-403C	Baghouse
SEP-403	EU-403P	Mill Storage Hopper B	Corn	2,860 bu/hr	CE-403C	Baghouse
SEP-403	EU-403Q	Mill Flour Drag A	Corn	20,000 bu/hr	CE-403C	Baghouse
SEP-403	EU-403R	Mill Flour Drag B	Corn	20,000 bu/hr	CE-403C	Baghouse
SEP-403	EU-403S	Mill Blender A	Corn	20,000 bu/hr	CE-403C	Baghouse
SEP-403	EU-403T	Mill Blender B	Corn	20,000 bu/hr	CE-403C	Baghouse

Applicable Requirements

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

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

Table Dry Mill 7. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-403	EU-403	Opacity	0%[1,2]	DNR PSD Permit #07-A-535-P2
		Particulate Matter	0.004 gr/dscf[3]	DNR PSD Permit #07-A-535-P2
		PM_{10}	0.004 gr/dscf[3] 3.78 lb/hr[3]	DNR PSD Permit #07-A-535-P2
		$PM_{2.5}$	0.004 gr/dscf[3]	DNR PSD Permit #07-A-535-P2

Table Dry Mill 8. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-403	EU-403	Opacity	40%[1]	567 IAC 23.3(2)"d"
			20%[1,2]	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"

[1] The emission limit is a six (6) minute average.
[2] An exceedance of the indicator opacity of this emission unit will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after corrections, the Department may require additional proof to demonstrate compliance (e.g. stack testing).
[3] The emission limit is expressed as the average of three (3) runs.

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 used to control particulate matter emissions. 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 devices at all times.

Authority for Requirement: LCPH ATI 6458 / PTO 6313

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

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/operatore to promptly conduct an EPA Method 9 evaluation to determine compliance with the opacity limit.

B. The pressure drop across the baghouses (CE-403A, CE-403B, and CE-403C) shall be maintained between 0.3 and 5.0 inches of water column. The owner or operator shall monitor and record the pressure drop across the baghouses (CE-403A, CE-403B, and CE-403C) on a weekly basis.

C. Each baghouse shall be maintained according to the manufacturer's specifications and/or good operating practices. The owner or operator shall record the date and description of all maintenance performed on the control devices.

D. The BAE for $PM_{2.5}$ for this project are 1.4 tpy. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of the project (Project Number 15-370), the owner or operator shall document and maintain a record of the following information:

   i. A description of the project (Project Number 15-370);

   ii. Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by the project (Project Number 15-370); and

   iii. A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of *"projected actual emissions"* in 567 IAC 33.3(1), an explanation describing why such amount was excluded, and any netting calculations, if applicable.

E. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:

   i. Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any emissions unit identified in Condition [D.ii above];

   ii. Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of ten (10) years following resumption of regular operations and maintain a record of regular operations after the change.

F. Per 567 IAC 33.3(18)"f"(5), the owner or operator shall retain a written record containing information required in Condition E [above] for a period of ten (10) years after the project (Project 15-370) is completed.

G. Per 567 IAC 33.3(18)"g", the owner or operator shall make the information required to be documented and maintained pursuant to 567 IAC 33.3(18)"f" available for review upon request for inspection by the Department or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 22.107(6).

H. The owner or operator shall determine the actual emissions for the project and record the value of the actual emissions minus the BAE from the project on a monthly basis.

I. Actual emissions minus the BAE from the project shall not exceed the PSD significant levels. If these limits are exceeded during the ten (10) year review period, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7).

J. The facility is allowed to exclude those emissions following this change that could have been accommodated during the consecutive 24-month period used to establish BAE and are unrelated to this project (i.e., increased utilization due to demand growth). The

facility shall be required to include a justification for any emissions excluded due to demand growth.

Authority for Requirement: DNR PSD Permit #07-A-534-P2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 130
Discharge Style: Vertical, Unobstructed
Stack Opening, (diameter, inches): 72
Exhaust Temperature (°F): Ambient
Exhaust Flow Rate (scfm): 110,000
Authority for Requirement: DNR PSD Permit #07-A-535-P2

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

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 8 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 > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 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.

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** ☐
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☒[2]	**No** ☐

[1] Facility maintained operation & maintenance plan is required for PM_{10}.
[2] Compliance Assurance Monitoring plan is required for PM.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Refer to Appendix B, CAM Plans, for the complete Compliance Assurance Monitoring plans.

Emission Point ID Number: SEP-410, SEP-411, SEP-413, SEP-414, SEP-415, SEP-416

Process Area: DRY MILL

Table Dry Mill 9. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE
SEP-410	EU-410	Equalization Tank	Wastewater	3,000 gpm	None
SEP-411	EU-411	WWTP Aeration Tank	Wastewater	1,500,000 gallons	None
SEP-413	EU-413	Membrane Filtration Tank #1	Wastewater	36,000 gallons	None
SEP-414	EU-414	Membrane Filtration Tank #2	Wastewater	36,000 gallons	None
SEP-415	EU-415	Membrane Filtration Tank #3	Wastewater	36,000 gallons	None
SEP-416	EU-416	Membrane Filtration Tank #4	Wastewater	36,000 gallons	None

Applicable Requirements

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

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

Table Dry Mill 10. Emission Limits.

EP	EU	VOC	H_2S	Authority for Requirement
SEP-410	EU-410	20 ppm_{vd}	5 ppm_{vd}[1]	DNR PSD Permit #09-A-382-P
SEP-411	EU-411			DNR PSD Permit #07-A-539-P-S1
SEP-413	EU-413			DNR PSD Permit #09-A-383-P
SEP-414	EU-414			DNR PSD Permit #09-A-384-P
SEP-415	EU-415			DNR PSD Permit #09-A-385-P
SEP-416	EU-416			DNR PSD Permit #09-A-386-P

[1] Limit requested by the facility to keep the project (06-298) minor for PSD for Hydrogen Sulfide, Total Reduced Sulfur, and Reduced Sulfur Compounds. The averaging time is based on the methodology used for sampling in 'Operating Condition Monitoring.'

Operational Limits & Requirements

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

NSPS and NESHAP Applicability:

This emission unit is subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and Subpart FFFF - Miscellaneous Organic Chemical Manufacturing (40 CFR §63.2430 through 40 CFR §63.2550) and is also subject to the requirements of 567 IAC 23.1(4)"cf". Not all of the general provisions in Subpart A are applicable to sources subject to the requirements of Subpart

FFFF. See Table 12 to Subpart FFFF of 40 CFR §63 for a detailed listing of which general provisions are applicable.

This emission unit is not subject to any New Source Performance Standards (NSPS) at this time. There are no applicable Subparts.

Authority for Requirement: DNR PSD Permit #09-A-382-P
DNR PSD Permit #07-A-539-P-S1
DNR PSD Permit #09-A-383-P
DNR PSD Permit #09-A-384-P
DNR PSD Permit #09-A-385-P
DNR PSD Permit #09-A-386-P

Operating Limits:

A. This emission unit is subject to all applicable operating limits set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2430 through 40 CFR §63.2550).

B. The facility shall comply with all applicable requirements for each wastewater stream and liquid stream in open systems according to the provisions in 40 CFR §63.2485.

Authority for Requirement: DNR PSD Permit #09-A-382-P
DNR PSD Permit #07-A-539-P-S1
DNR PSD Permit #09-A-383-P
DNR PSD Permit #09-A-384-P
DNR PSD Permit #09-A-385-P
DNR PSD Permit #09-A-386-P

Operating Condition Monitoring:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Record monthly the total amount of wastewater processed through the aeration tank each month in gallons. Calculate VOC and Hydrogen Sulfide (H_2S) emissions on a monthly basis and record the 12-month rolling total using EPA's WATER9 model, or the most recent update to this model.

B. Record the VOC and H_2S concentration determined using the EPA's WATER9 model, or the most recent update of this model.

C. In order to determine the concentration of H_2S and VOC for input into the model, ADM shall complete liquid sampling to establish a baseline value. Sampling for H_2S and VOC concentrations in the wastewater shall be taken from the inlet to the WWTP Aeration Tank and shall either be completed continuously for 30 days or once a week for 6 months to establish a baseline. Sampling shall be conducted under representative process unit and treatment unit operating conditions, in accordance with 40 CFR §63.145(a)(3) and (4).

   Wastewater samples shall be collected using sampling procedures which minimize the loss of organic compounds during the sample collection and analysis, and maintain sample integrity per 40 CFR §63.144(b)(5)(ii). The method shall be an analytical method which has that compound as a target analyte. Samples may be grab samples or composite

samples. Samples shall be taken at approximately equally spaced time intervals over a 1-hour period. Each 1-hour period constitutes a run, and the performance test shall consist of 3 runs.

D. This emission unit is subject to all applicable recordkeeping, notification, and reporting requirements as set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2515, 40 CFR §63.2520, and 40 CFR §63.2525).

Authority for Requirement: DNR PSD Permit #09-A-382-P
DNR PSD Permit #07-A-539-P-S1
DNR PSD Permit #09-A-383-P
DNR PSD Permit #09-A-384-P
DNR PSD Permit #09-A-385-P
DNR PSD Permit #09-A-386-P

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Dry Mill 11.

		Stack Characteristics				
EP	**LCPH ATI / PTO Numbers**	**Stack Height (feet, above ground)**	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (scfm)**
SEP-410	5709 / 6271	28	Downward, goose neck	18	95	Breathing loss
SEP-411	5195 / 6272	32	Vertical, unobstructed	92	100	5,000
SEP-413	5764 / 6273	15	Vertical, unobstructed	444 x 120	90	1,000
SEP-414	5765 / 6274	15	Vertical, unobstructed	444 x 120	90	1,000
SEP-415	5766 / 6275	15	Vertical, unobstructed	444 x 120	90	1,000
SEP-416	5767 / 6276	15	Vertical, unobstructed	444 x 120	90	1,000

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

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-412

Process Area: DRY MILL

Table Dry Mill 12. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE
SEP-412	EU-412A	Wastewater Treatment Plant Anaerobic Digester	Biogas	65.55 MMBtu/hr	CE-412A CE-412B CE-412C
SEP-412	EU-412B	Wastewater Treatment Plant Anaerobic Digester			
SEP-412	EU-412C	Wastewater Treatment Plant Anaerobic Digester			

Table Dry Mill 13. Associated Control Equipment.

EP	CE	CE Description
SEP-412	CE-412A	Ecotec H_2S Biogas Scrubber
	CE-412B	Open Flare
	CE-412C	Merichem H_2S Biogas Scrubber

Applicable Requirements

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

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

Table Dry Mill 14. Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-412	EU-412	Opacity	0%[1]	DNR PSD Permit #07-A-540-P2
		Particulate Matter	0.0075 lb/MMBtu[2]	DNR PSD Permit #07-A-540-P2
		PM_{10}	0.0075 lb/MMBtu[2] 0.49 lb/hr	DNR PSD Permit #07-A-540-P2
		SO_2	0.023 lb/MMBtu[2] 1.50 lb/hr	DNR PSD Permit #07-A-540-P2
		NO_X	0.10 lb/MMBtu[2] 6.56 lb/hr	DNR PSD Permit #07-A-540-P2
		CO	0.20 lb/MMBtu[2] 13.13 lb/hr	DNR PSD Permit #07-A-540-P2
		VOC	98% reduction[3] and 0.36 lb/hr[4]	DNR PSD Permit #07-A-540-P2
		H_2S	See Note[5]	DNR PSD Permit #07-A-540-P2

Table Dry Mill 15. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-412	EU-412	Opacity	40%	567 IAC 23.3(2)"d"
			20%	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"
		SO_2	500 ppm_v	567 IAC 23.3(3)"e" LCO 10.12(2)

[1] Standard is expressed as a six-minute average.
[2] Standard is expressed as the average of 3 test runs.
[3] The percent reduction limit applies across the open flare, CE-412B.
[4] The pound per hour limit is the limit from the exhaust of the open flare, CE-412B.
[5] A limit of 200 ppm, 24-hour rolling average, has been established for the outlet of the Hydrogen Sulfide (H_2S) Biogas Scrubbers, CE-412A or CE-412C. This limit does not correspond to the outlet of this emission point. Limit was requested by the facility as the basis of the SO_2 BACT for all of the equipment that is able to combust the biogas from the anaerobic digesters.

<u>Operational Limits & Requirements</u>
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:
An Ecotec H_2S Biogas Scrubber (CE-412A) or a Merichem H_2S Biogas Scrubber (CE-412C) shall be used to control hydrogen sulfide emissions. An open flare (CE-412B) shall be used to control volatile organic compound emissions. 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 devices at all times.

Authority for Requirement: LCPH ATI 5196 / PTO 6310

NSPS and NESHAP Applicability:
These emission units are subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and Subpart FFFF (40 CFR §63.2430 through 40 CFR §63.2550) and is also subject to the requirements of 567 IAC 23.1(4)"cf". Not all of the general provisions in Subpart A are applicable to sources subject to the requirements of Subpart FFFF. See Table 12 to Subpart FFFF of 40 CFR §63 for a detailed listing of which general provisions are applicable.

Authority for Requirement: DNR PSD Permit #07-A-540-P2

Operating Limits:

A. The flare shall be designed and operated to meet the minimum requirements of 40 CFR §60.18(f).

B. The anaerobic digester shall be controlled by the H_2S biogas scrubber, CE-412A or the Merichem H_2S Scrubber, CE-412C, and either the open flare, CE-412B, or by sending the biogas to the natural gas header to be used in the regenerative thermal oxidizer, CE-420B, the DDGS Dryer Combustion Chambers, CE-425, CE-426, CE-427, CE-428, CE-

429, CE-437, CE-438, and CE-439, or the Alcohol Loadout Flares, CE-450 and CE-451. The anaerobic digester shall at no time operate uncontrolled.

C. This emission unit is subject to all applicable operating limits set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2430 through 40 CFR §63.2550).

D. This facility shall comply with all applicable requirements for each wastewater stream and liquid stream in open systems according to the provisions in 40 CFR §63.2485.

E. The exhaust of the Ecotec H_2S Biogas Scrubber, CE-412A, or the Merichem H_2S Scrubber, CE-412C, shall contain less than 200 ppm H_2S per 24-hour rolling average. The facility shall monitor H_2S concentration from the outlet of the scrubber using a CEM (See ["Continuous Emission Monitoring"]).

F. The owner or operator shall maintain the control equipment according to the manufacturer's specifications and maintenance schedule.

Authority for Requirement: DNR PSD Permit #07-A-540-P2

Operating Condition Monitoring:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall properly operate and maintain equipment to monitor the pH for the biogas scrubber. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals, or per written facility-specific operation and maintenance plan.

B. The owner or operator shall collect and record the pH of the biogas scrubber, in standard units, continuously for the biogas scrubber. This requirement shall not apply on the days that the scrubber, or the equipment that the scrubber controls, is not in operation.

C. This emission unit is subject to all applicable recordkeeping, notification, and reporting requirements, as set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2515, 40 CFR §63.2520, and 40 CFR §63.2525).

D. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the monitoring device.

Authority for Requirement: DNR PSD Permit #07-A-540-P2

<u>Emission Point Characteristics</u>
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 45
Discharge Style: Vertical, Unobstructed
Stack Opening, (diameter, inches): 8
Exhaust Temperature (°F): 1,500
Exhaust Flow Rate (scfm): 1,500
Authority for Requirement: DNR PSD Permit #07-A-540-P2

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

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 8 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 > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 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.

Authority for requirement: 567 IAC 22.108(14)

Continuous Emission Monitoring:

The owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring hydrogen sulfide emissions discharged from the Ecotec Biogas Scrubber, CE-412A, or the Merichem Biogas Scrubber, CE-412C. The output shall be reported as parts per million and calculated as a 24-hour rolling average.

The system shall be designed to meet the requirements of 40 CFR Part 60, Appendix B - Performance Specification 7 (PS7). The system shall be monitored according to the specifications of 40 CFR Part 60, Appendix F - Quality Assurance/Quality Control. The requirements in Appendix F shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.

The CEMS shall be operated and data recorded during all periods of operation of the anaerobic digester except for CEMS breakdown and repairs. Data shall be recorded during calibration checks and zero and span adjustments.

Authority for Requirement: DNR PSD Permit #07-A-540-P2

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-420

Process Area: DRY MILL

Table Dry Mill 16. Associated Equipment.

EP	EU (420)[1]	EU Description	Raw Material /Fuel	Rated Capacity	CE	CE Description	Subject to NESHAP FFFF[2]
SEP-420	N	Dry Slurry Mix Tank #1	Distillate	15,000 gallons	CE-420B	RTO	Yes
SEP-420	O	Dry Slurry Mix Tank #2	Distillate	15,000 gallons	CE-420B	RTO	Yes
SEP-420	P	Pre-Cook Tank #1	Distillate	100,000 gallons	CE-420B	RTO	Yes
SEP-420	Q	Pre-Cook Tank #2	Distillate	100,000 gallons	CE-420B	RTO	Yes
SEP-420	R	Barometric Condenser #1	Distillate	8,000 gallons	CE-420B	RTO	Yes
SEP-420	S	Barometric Condenser #2	Distillate	8,000 gallons	CE-420B	RTO	Yes
SEP-420	T	Liquifaction Tank #1	Distillate	85,000 gallons	CE-420B	RTO	Yes
SEP-420	U	Liquifaction Tank #2	Distillate	85,000 gallons	CE-420B	RTO	Yes
SEP-420	V	Liquifaction Tank #3	Distillate	85,000 gallons	CE-420B	RTO	Yes
SEP-420	W	Liquifaction Tank #4	Distillate	85,000 gallons	CE-420B	RTO	Yes
SEP-420	Z	Liquifaction Tank #7	Distillate	85,000 gallons	CE-420B	RTO	Yes
SEP-420	AA	Liquifaction Tank #8	Distillate	85,000 gallons	CE-420B	RTO	Yes
SEP-420	BB	Liquifaction Tank #9	Distillate	85,000 gallons	CE-420B	RTO	Yes
SEP-420	CC	Liquifaction Tank #10	Distillate	85,000 gallons	CE-420B	RTO	Yes
SEP-420	DD	Distillation & Dehydration	Distillate	50,000 gal/hr	CE-420B CE-420C	RTO Distillation Scrubber	Yes
SEP-420	EE	Nitrogen Stripper	Distillate	50,000 gal/hr	CE-420B CE-420C	RTO Distillation Scrubber	Yes
SEP-420	FF	Stillage Evaporation #1	Distillate	114,000 gallons	CE-420B	RTO	Yes
SEP-420	GG	Stillage Evaporation #2	Distillate	114,000 gallons	CE-420B	RTO	Yes
SEP-420	HH	Stillage Evaporation #3	Distillate	114,000 gallons	CE-420B	RTO	Yes

EP	EU (420)[1]	EU Description	Raw Material /Fuel	Rated Capacity	CE	CE Description	Subject to NESHAP FFFF[2]
SEP-420	II	Stillage Evaporation #4	Distillate	114,000 gallons	CE-420B	RTO	Yes
SEP-420	JJ	Decanter Feed Tank	Distillate	100,000 gallons	CE-420B	RTO	Yes
SEP-420	KK	Centrate Tank	Distillate	100,000 gallons	CE-420B	RTO	Yes
SEP-420	LL	Condensed Distillers Tank	Distillate	100,000 gallons	CE-420B	RTO	Yes
SEP-420	MM	Evaporator Feed Tank #1	Distillate	400,000 gallons	CE-420B	RTO	Yes
SEP-420	NN	Evaporator Feed Tank #2	Distillate	400,000 gallons	CE-420B	RTO	No
SEP-420	OO	Evaporator Product Tank	Distillate	30,000 gallons	CE-420B	RTO	Yes
SEP-420	PP	Evaporator Condensate Tank	Distillate	100,000 gallons	CE-420B	RTO	Yes
SEP-420	RR	Process Water Tank	Distillate	50,000 gallons	CE-420B	RTO	Yes
SEP-420	SS	Wastewater Transfer Tank	Distillate	100,000 gallons	CE-420B	RTO	Yes
SEP-420	TT	Yeast Propagator #1	Distillate	117,500 gallons	CE-420B	RTO	Yes
SEP-420	UU	Yeast Propagator #2	Distillate	117,500 gallons	CE-420B	RTO	Yes
SEP-420	VV	Yeast Propagator #3	Distillate	117,500 gallons	CE-420B	RTO	Yes
SEP-420	XX	Fermenter #1	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	YY	Fermenter #2	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	ZZ	Fermenter #3	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	AAA	Fermenter #4	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	BBB	Fermenter #5	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	CCC	Fermenter #6	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	DDD	Fermenter #7	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	EEE	Fermenter #8	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	FFF	Fermenter #9	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes

EP	EU (420)[1]	EU Description	Raw Material /Fuel	Rated Capacity	CE	CE Description	Subject to NESHAP FFFF[2]
SEP-420	GGG	Fermenter #10	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	HHH	Fermenter #11	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	III	Fermenter #12	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	JJJ	Fermenter #13	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	KKK	Fermenter #14	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	LLL	Fermenter #15	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	MMM	Fermenter #16	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	TTT	Fermenter #23	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	UUU	Fermenter #24	Distillate	850,000 gallons	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	VVV	Beerwell #1	Distillate	420,000 gal/hr	CE-420A CE-420B	CO_2 Scrubber RTO	Yes
SEP-420	WWW	Beerwell #2	Distillate	420,000 gal/hr	CE-420A CE-420B	CO_2 Scrubber RTO	Yes

[1] All emission units associated with this emission point are "EU-420."
[2] ADM was required to submit a Notification of Compliance Summary (NOCS) for SEP-420 as a condition of the original PSD permit for this source (#07-A-541-P). This NOCS was submitted on November 18, 2010. The full emission unit list included in this permit reflects changes to the NESHAP Subpart FFFF applicability reported in the NOCS.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Dry Mill 17. Opacity and Particulate Matter Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Authority for Requirement
SEP-420	All	0%[1]	0.003 gr/dscf[2] 2.69 tpy[3] 0.61 lb/hr[4]	0.003 gr/dscf[2] 2.69 tpy[3]	DNR PSD Permit #07-A-541-P1

Table Dry Mill 18. Other Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-420	All	SO_2	90% reduction[2,4] or 10 ppm_v[2] 9.59 tpy[3] 2.21 lb/hr[4]	DNR PSD Permit #07-A-541-P1
		NO_X	1.8 lb/hr[2] and 6.3 ppm_v[2,6] 7.73 tpy[3] 1.80 lb/hr[4]	DNR PSD Permit #07-A-541-P1
		CO	1.8 lb/hr[2] and 10.3 ppm_v[2,6] 6.49 tpy[3] 1.80 lb/hr[4]	DNR PSD Permit #07-A-541-P1
		VOC	98% reduction[2,7] or 3.35 lb/hr[2,8] 14.70 tpy[3]	DNR PSD Permit #07-A-541-P1
		Organic HAP	≥ 98% reduction or ≤ 20 ppm_v[2,9]	DNR PSD Permit #07-A-541-P1

Table Dry Mill 19. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-420	All	Opacity	40%	567 IAC 23.3(2)"d"
			20%	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"
		SO_2	500 ppm_v	567 IAC 23.3(3)"e" LCO 10.12(2)

[1] Standard is expressed as a six-minute average.
[2] Standard is expressed as the average of 3 test runs.
[3] Ton per year limits correlate to an annual production limit of 420,000,000 gallons of denatured ethanol each 12-month rolling period.
[4] The limit for PM_{10} emissions is established to limit emissions below levels that predict exceedances of the 24-hour NAAQS, the 24-hour increment, and the annual increment for PM_{10}. The limit for SO_2 emissions is established to limit emissions below levels that predict exceedances of the 3-hour, 24-hour, and annual NAAQS and increment for SO_2. The limit for NO_X emissions is established to limit emissions below levels that predict exceedances of the annual NAAQS and increment for NO_X. The limit for CO emissions is established to limit emissions below levels that predict exceedances of the 1-hour and 8-hour NAAQS for CO.
[5] The percent reduction limit applies across the CO_2 Scrubber (CE-420A) and the Distillation NCG Scrubber (CE-420C). The 10 ppm_v concentration limit is the limit from the exhaust of the RTO (CE-420B).
[6] The NO_X and CO standards apply at all times, except during periods of startup, shutdown, or malfunction. During periods of startup, shutdown, or malfunction, an emission limit of 18.9 ppmv applies for NO_X and a limit of 41.3 ppmv applies for CO.
[7] The percent reduction limit applies across the RTO (CE-420B).
[8] The pound per hour limit is the limit from the exhaust of the RTO (CE-420B).
[9] Per Table 1 to Subpart FFFF of 40 CFR Part 63. Reduce emissions of total organic HAP by ≥ 98%, by weight, or to an outlet concentration of ≤ 20 ppm_v, as organic HAP or TOC, by venting emissions through a closed-vent system to any combination of control devices, except a flare.

Operational Limits & Requirements

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

Control Device:

A carbon dioxide scrubber and regenerative thermal oxidizer shall be used to control volatile organic compound emissions. A distillation scrubber shall be used to control sulfur dioxide emissions. 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 devices at all times.

Authority for Requirement: LCPH ATI 5197 / PTO 6270

NSPS and NESHAP Applicability:

These emission units, as detailed in 'Emission Unit Description' of this permit, are subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) of the National Emission Standards of Hazardous Air Pollutants (NESHAP) and Subpart FFFF - Miscellaneous Organic Chemical Manufacturing (40 CFR §63.2430 through 40 CFR §63.2550) and are also subject to the requirements of 567 IAC 23.1(4)"cf". Not all of the general provisions in Subpart A are applicable to sources subject to the requirements of Subpart FFFF. See Table 12 to Subpart FFFF of 40 CFR §63 for a detailed listing of which general provisions are applicable.

Authority for Requirement: DNR PSD Permit #07-A-541-P1

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The ADM Ethanol Dry Mill located at Plant Number 57-01-080 shall not produce more than 420,000,000 gallons of denatured ethanol per rolling 12-month period. Record monthly, the amount of denatured ethanol produced at the ADM Ethanol Dry Mill located at Plant Number 57-01-080 in gallons. Calculate and record 12-month rolling totals.

B. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

C. The Regenerative Thermal Oxidizer (CE-420B), CO_2 Scrubber (CE-420A), and the Distillation NCG Scrubber (CE-420C) shall be operated at all times the equipment each device controls is in operation.

D. The CO_2 Scrubber (CE-420A) scrubbant flow rate and the Distillation NCG Scrubber (CE-420C) scrubbant shall be maintained at or above the average flow rate, measured in gallons per hour, during the most recent performance test that demonstrates compliance with the permitted emission limits. Records of the average scrubbant flow rate observed for each scrubber during the last successful compliance test will be maintained for reference.

E. The owner or operator shall properly operate and maintain equiopment to continuously monitor and record the scrubbant flow rate for the CO_2 Scrubber and the Distillation NCG Scrubber. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals, or per written facility-specific operation and maintenance plan. This requirement shall not apply on the days that the scrubbers, or the equipment the scrubbers control, are not in operation.

F. The CO_2 Scrubber (CE-420A) scrubbant pH shall be maintained at a minimum pH of 3.5, three-hour rolling average. The owner or operator shall properly operate and maintain equipment to continuously monitor and record the scrubbant pH, in standard units, for the CO_2 Scrubber. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals, or per written facility-specific operating and maintenance plan. This requirement shall not apply on the days that the CO_2 Scrubber or the equipment that the CO_2 Scrubber controls is not in operation.

G. The Regenerative Thermal Oxidizer shall only combust natural gas, including natural gas mixed with biogas from the wastewater treatment plant, process off-gasses, and combustion air.

H. The Regenerative Thermal Oxidizer shall maintain a temperature (3-hour average) during operation of no lower than 50 degrees Fahrenheit of the average temperature of the oxidizer recorded during the most recent performance test which demonstrated compliance with the emission limits.

I. The owner or operator shall keep three-hour block records of the operating temperature of the thermal oxidizer, and record all three-hour periods (during actual operations) during which the average temperature of the thermal oxidizer is more than 50 degrees Fahrenheit below the average temperature of the oxidizer during its most recent performance test which demonstrated compliance with the emission limits.

J. The owner or operator shall keep records of the frequency and amount of time the thermal oxidizer malfunctions and estimate the emissions emitted during these malfunctions.

K. These emission units, as detailed in [**Table Dry Mill 16**], are subject to all applicable operating limits set forth in NESHAP Subpart A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2430 through 40 CFR §63.2550).

L. Per 40 CFR §63.2450, for the closed vent system and Regenerative Thermal Oxidizer, the facility shall meet the requirements of 40 CFR §63.928(b) and the requirements referenced therein.

M. Per 40 CFR §63.2455 and 40 CFR §63.2460, the facility shall meet all of the applicable operating requirements in Table 1 and 2 of NESHAP Subpart FFFF.

N. The facility must develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in 40 CFR §63.6(e). Per 40 CFR §63.2525(j), the SSMP is not required to included Group 2 emission points, unless those emission points are used in an emissions average, and for equipment leaks, the SSMP requirement is limited to control devices and is optional for other equipment.

O. The owner or operator shall furnish the Department with final detailed plans and specifications for all emission control equipment selected by the owner to meet the emission limits contained in [**Table Dry Mill 17**], [**Table Dry Mill 18**], and [**Table Dry Mill 19**]. In addition, the facility shall detail all revisions made to the affected emission units and provide a startup, shutdown, and malfunction plan for the emission unit and control device. This information shall be submitted to the Department at least 30 days in advance of construction of any control equipment.

P. These emission units, as detailed in [**Table Dry Mill 16**], are subject to all applicable recordkeeping, notification, and reporting requirements as set forth in NESHAP Subpart A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2515, 40 CFR §2520, and 40 CFR §63.2525).

Authority for Requirement: DNR PSD Permit #07-A-541-P1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 100
Discharge Style: Vertical, unobstructed
Stack Opening, (diameter, inches): 60
Exhaust Temperature (°F): 190
Exhaust Flow Rate (scfm): 63,850
Authority for Requirement: DNR PSD Permit #07-A-541-P

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

Monitoring Requirements

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

Stack Testing:

The following stack testing shall be performed:

Table Dry Mill 20. Required Stack Testing.

Pollutant	1st Stack Test to be Completed by	Test Method
PM	Within first two years of permit term	40 CFR 60, Appendix A, Method 5 40 CFR 51, Appendix M, Method 202
PM_{10}	Within first two years of permit term	40 CFR 51, Appendix M, Methods 201A w/ 202
SO2	Within first two years of permit term	40 CFR 60, Appendix A, Method 6C
CO	Within first two years of permit term	40 CFR 60, Appendix A, Method 10

Authority for Requirement: 567 IAC 22.108(3)

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 8 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 > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 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.

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** ☐
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☐ **No** ☒

[1] Facility maintained operation and maintenance plans are required for SO_2 and VOC.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-422, SEP-423

Process Area: DRY MILL

Table Dry Mill 21. Associated Equipment.

EP	EU	EU Description	Raw Material /Fuel	Rated Capacity	CE	CE Description
SEP-422	EU-422	DDGS Cooler #1	DDGS	106 ton/hr	CE-422	Baghouse
SEP-423	EU-423	DDGS Cooler #2	DDGS	106 ton/hr	CE-423	Baghouse

Applicable Requirements

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

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

Table Dry Mill 22. Opacity Emission Limits.

EP	EU	Opacity	Authority for Requirement
SEP-422 SEP-423	EU-422 EU-423	0%[1,2]	DNR PSD Permit #07-A-543-P3 DNR PSD Permit #07-A-544-P3

Table Dry Mill 23. Particulate Matter Emission Limits.

EP	EU	PM_{10}	$PM_{2.5}$	Particulate Matter	Authority for Requirement
SEP-422 SEP-423	EU-422 EU-423	0.004 gr/dscf[3] 1.54 lb/hr	0.004 gr/dscf[3]	0.004 gr/dscf[3]	DNR PSD Permit #07-A-543-P3 DNR PSD Permit #07-A-544-P3

Table Dry Mill 24. Other Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-422 SEP-423	EU-422 EU-423	SO_2	10 ppm_{vd}[3] 4.68 lb/hr	DNR PSD Permit #07-A-543-P3 DNR PSD Permit #07-A-544-P3
		VOC	45 ppm_{vd}[3,4] or 0.216 lb/ton[3,4]	DNR PSD Permit #07-A-543-P3 DNR PSD Permit #07-A-544-P3
		Acetaldehyde	0.64 lb/hr[5]	DNR PSD Permit #07-A-543-P3 DNR PSD Permit #07-A-544-P3
		Acrolein	0.98 lb/hr[5]	DNR PSD Permit #07-A-543-P3 DNR PSD Permit #07-A-544-P3
		Formaldehyde	1.06 lb/hr[5]	DNR PSD Permit #07-A-543-P3 DNR PSD Permit #07-A-544-P3
		Methanol	1.08 lb/hr[5]	DNR PSD Permit #07-A-543-P3 DNR PSD Permit #07-A-544-P3
		Total HAP	2.48 lb/hr[5]	DNR PSD Permit #07-A-543-P3 DNR PSD Permit #07-A-544-P3

Table Dry Mill 25. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-422 SEP-423	EU-422 EU-423	Opacity	40%	567 IAC 23.3(2)"d"
			20%	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2)"a"(2) LCO 10.9(1)"a"
		SO_2	500 ppm_v	567 IAC 23.3(3)"e" LCO 10.12(2)

[1] The emission limit is a six (6) minute average.
[2] An exceedance of the indicator opacity of "no visible emissions" from the emission points will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).
[3] The emission limit is expressed as the average of three (3) runs.
[4] This is combined for DDGS Coolers 1 & 2.
[5] Emission limit is a combined total for DDGS Coolers 1 & 2.

<u>Operational Limits & Requirements</u>
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:
A baghouse shall be used to control particulate matter emissions. 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 devices at all times.

Authority for Requirement: LCPH ATI 6785
LCPH ATI 6786

Operating Limits:
Operating limits for this unit shall be:

A. The owner or operator shall furnish the Department with final detailed plans and specifications for all emission control equipment selected by the owner to meet the emission limits contained in **Table Dry Mill 22 through 25**. In addition, the facility shall detail all revisions made to the affected emission units. This information shall be submitted to the Department at least 30 days in advance of construction of any control equipment.

B. The differential pressure across the control equipment, CE-422 and CE-423, shall be maintained between 0.5 inches of water column and 8 inches of water column, with the exception of unit startup.

C. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: DNR PSD Permit #07-A-543-P3
DNR PSD Permit #07-A-544-P3

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Record monthly the total amount of DDGS processed in the coolers, EU-422 and EU-423. Calculate and record VOC emissions from the coolers in tons on a monthly basis and record the 12-month rolling total.

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 properly operate and maintain equipment to continuously monitor the baghouse pressure drop. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals, or per written facility-specific operation and maintenance plan.

D. The owner or operator shall collect and record the baghouse pressure drop, in inches of water column, on a continuous basis. This requirement shall not apply on the days that the baghouse, or the equipment that the baghouse controls, is not in operation.

E. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

F. The owner or operator shall maintain a record of the range of baghouse pressure drop observed during the last successful compliance test for reference.

Authority for Requirement: DNR PSD Permit #07-A-543-P3
DNR PSD Permit #07-A-544-P3

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Dry Mill 26.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (scfm)
SEP-422	6785 / 0	100	Vertical, unobstructed	48	153	46,940
SEP-423	6786 / 0	100	Vertical, unobstructed	48	153	46,940

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flow rate above are different than the values stated, the owner or operator shall

submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

The following stack tests shall be performed:

Table Dry Mill 27. Required Stack Testing.

Pollutant	1st Stack Test to be Completed by	Test Method
PM	Within first two years of permit term[1]	40 CFR 60, Appendix A, Method 5 40 CFR 51, Appendix M, Method 202
PM_{10}	Within first two years of permit term[1]	40 CFR 51, Appendix M, Methods 201A w/ 202
VOC	Within first two years of permit term[1]	40 CFR 60, Appendix A, Method 25A

[1] Testing was completed on October 10 and 11, 2016 for PM, PM_{10}, VOC, and HAP. The results were submitted to LCPH on November 30, 2016 and are currently pending review. The results from this test will be considered sufficient to meet the testing requirement above, so long as the results meet the established emission limits. If the results show an exceedance, additional stack testing will be required.

Authority for Requirement: 567 IAC 22.108(3)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 8 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 > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 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.

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** ☒[1]

[1] CAM has been waived. DNR PSD Permits #07-A-543-P3 and #07-A-544-P3 have CAM equivalent monitoring and recordkeeping required.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-425, SEP-426, SEP-427, SEP-428, SEP-429

Process Area: DRY MILL

Table Dry Mill 28. Associated Equipment.

EP	EU	EU Description	Raw Material /Fuel	Rated Capacity	CE	CE Description
SEP-425	EU-425	Indirect-Fired DDGS Dryer #1	DDGS	63 ton/hr 95.5 MMBtu/hr	CE-425A CE-425B	Low NO_X with FGR Dryer Combustion Chamber
SEP-426	EU-426	Indirect-Fired DDGS Dryer #2	DDGS	63 ton/hr 95.5 MMBtu/hr	CE-426A CE-426B	Low NO_X with FGR Dryer Combustion Chamber
SEP-427	EU-427	Indirect-Fired DDGS Dryer #3	DDGS	63 ton/hr 95.5 MMBtu/hr	CE-427A CE-427B	Low NO_X with FGR Dryer Combustion Chamber
SEP-428	EU-428	Indirect-Fired DDGS Dryer #4	DDGS	63 ton/hr 95.5 MMBtu/hr	CE-428A CE-428B	Low NO_X with FGR Dryer Combustion Chamber
SEP-429	EU-429	Indirect-Fired DDGS Dryer #5	DDGS	63 ton/hr 95.5 MMBtu/hr	CE-429A CE-429B	Low NO_X with FGR Dryer Combustion Chamber

Applicable Requirements

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

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

Table Dry Mill 29. Opacity and Particulate Matter Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Authority for Requirement
SEP-425 SEP-426 SEP-427 SEP-428 SEP-429	EU-425 EU-426 EU-427 EU-428 EU-429	0%[1]	0.015 gr/dscf[2] 3.29 lb/hr[4]	0.015 gr/dscf[2]	DNR PSD Permit #07-A-546-P DNR PSD Permit #07-A-547-P DNR PSD Permit #07-A-548-P DNR PSD Permit #07-A-549-P DNR PSD Permit #07-A-550-P
				0.03 lb/MMBtu[3]	40 CFR §60.43c

Table Dry Mill 30. Sulfur Dioxide, Nitrogen Oxides, and Carbon Monoxide Emission Limits.

EP	EU	SO_2	NO_X	CO	Authority for Requirement
SEP-425 SEP-426 SEP-427 SEP-428 SEP-429	EU-425 EU-426 EU-427 EU-428 EU-429	6.0 ppm_{vd} 1.01 lb/hr[4]	0.04 lb/MMBtu 3.75 lb/hr[4]	0.10 lb/MMBtu 10.31 lb/hr[4]	DNR PSD Permit #07-A-546-P DNR PSD Permit #07-A-547-P DNR PSD Permit #07-A-548-P DNR PSD Permit #07-A-549-P DNR PSD Permit #07-A-550-P

Table Dry Mill 31. Other Emission Limits.

EP	EU	VOC	Authority for Requirement
SEP-425	EU-425	98% reduction[5] and 3.16 lb/hr[6]	DNR PSD Permit #07-A-546-P
SEP-426	EU-426		DNR PSD Permit #07-A-547-P
SEP-427	EU-427		DNR PSD Permit #07-A-548-P
SEP-428	EU-428		DNR PSD Permit #07-A-549-P
SEP-429	EU-429		DNR PSD Permit #07-A-550-P

Table Dry Mill 32. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-425	EU-425	Opacity	40%	567 IAC 23.3(2)"d"
SEP-426	EU-426		20%	LCO 10.7
SEP-427	EU-427	PM	0.6 lb/MMBtu	567 IAC 23.3(2)"b"(2)
SEP-428	EU-428		0.356 lb/MMBtu	LCO 10.8(2)"b"
SEP-429	EU-429	SO_2	500 ppm_v	567 IAC 23.3(3)"e" LCO 10.12(2)

[1] Standard is expressed as a six-minute average.
[2] Standard is expressed as the average of 3 test runs.
[3] Standard is expressed as the average of 3 test runs and applies at all times except during startup, shutdown, or malfunction.
[4] The limit for PM_{10} emissions is established to limit emissions below levels that predict exceedances of the 24-hour NAAQS, the 24-hour increment, and the annual increment for PM_{10}. The limit for SO_2 emissions is established to limit emissions below levels that predict exceedances of the 3-hour, 24-hour, and annual NAAQS and increment for SO_2. The limit for NO_X emissions is established to limit emissions below levels that predict exceedances of the annual NAAQS and increment for NO_X. The limit for CO emissions is established to limit emissions below levels that predict exceedances of the 1-hour and 8-hour NAAQS for CO.
[5] The percent reduction limit applies to the dryer process gas bleed stream (i.e., the gas in direct contact with the DDGS being dried in the dryer, which is routed to the combustion chamber in the process gas control). It is to be determined based on the measurement of the mass of VOC in the process gas exiting the dryer process loop and the mass of VOC in the flue gas exiting the dryer combustion chamber. The mass of VOC in the gas exiting the chamber may be adjusted downward to account for VOC produced by combustion of the fuel gas in the combustion chamber.
[6] The pound per hour limit is the limit from the exhaust of the dryer combustion chamber (CE-425B, CE-426B, CE-427B, CE-428B, and CE-429B).

Operational Limits & Requirements

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

Control Device:

Low NO_X burners with flue gas recirculation will be used to reduce nitrogen oxides emissions. A dryer combustion chamber will be used to reduce volatile organic compound emissions. 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 devices at all times.

Authority for Requirement: DNR PSD Permit #07-A-546-P
DNR PSD Permit #07-A-547-P
DNR PSD Permit #07-A-548-P
DNR PSD Permit #07-A-549-P
DNR PSD Permit #07-A-550-P

NSPS and NESHAP Applicability:
This emission unit is subject to Subpart A - General Provisions (40 CFR §60.1 through 40 CFR §60.19) of the New Source Performance Standards (NSPS) and Subpart Dc - Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units (40 CFR §60.40c through 40 CFR §60.48c) and is also subject to the requirements of 567 IAC 23.1(2)"lll".

As provided in 40 CFR §63.7480 through 40 CFR §63.7570, this emission unit is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart DDDDD - Industrial, Commercial, and Institutional Boilers and Process Heaters as a existing large gaseous fuel unit with a heat input less than 100 MMBtu/hr. This emission unit is also subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) and is also subject to the requirements of 567 IAC 23.1(4)"dd".

Authority for Requirement: DNR PSD Permit #07-A-546-P
DNR PSD Permit #07-A-547-P
DNR PSD Permit #07-A-548-P
DNR PSD Permit #07-A-549-P
DNR PSD Permit #07-A-550-P

Operating Limits:

A. DDGS Dryers #1, #2, #3, #4, and #5 shall not operate at less than 35% load (i.e., operate while firing less than 35% of the maximum firing rate of the dryer).

B. The combustion chamber of DDGS Dryers #1, #2, #3, #4, and #5 shall maintain a temperature (3-hour average), measured at the exit of the combustion chamber, during operation of no more than 50 degrees Fahrenheit below the average temperature measured at this location during the most recent performance test which demonstrated compliance with the emission limits.

C. The owner or operator shall furnish the Department with final detailed plans and specifications for all emission control equipment selected by the owner to meet the emission limits contained in **Table Dry Mill 29 through 32**. In addition, the facility shall detail all revisions made to the affected emission units and provide a startup, shutdown, and malfunction plan for the emission unit and control device. This information shall be submitted to the Department at least 30 days in advance of construction of any control equipment.

D. The owner or operator shall operate and maintain the DDGS Dryers #1, #2, #3, #4, and #5 according to the provisions in 40 CFR §63.6(e).

E. The owner or operator shall develop and implement a written startup, shutdown, and malfunction plan (SSMP) for the DDGS Dryers #1, #2, #3, #4, and #5 according to the provisions in 40 CFR §63.6(e).

F. DDGS Dryers #1, #2, #3, #4, and #5 shall only combust natural gas, including natural gas mixed with biogas from the wastewater treatment plant, process off-gases, and combustion air.

Authority for Requirement: DNR PSD Permit #07-A-546-P
DNR PSD Permit #07-A-547-P
DNR PSD Permit #07-A-548-P
DNR PSD Permit #07-A-549-P
DNR PSD Permit #07-A-550-P

Operating Condition Monitoring:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall keep hourly records of the operating temperature of the dryer's combustion chamber and record all periods (during actual operations) where the 3-hour average temperature is more than 50 degrees Fahrenheit below the average temperature recorded during the most recent performance test which demonstrated compliance with the emission limits.

B. The owner or operator shall maintain a record of the average temperature of the dryer's combustion chamber observed during the most recent performance test which demonstrated compliance with the emission limits for reference.

C. The owner or operator shall collect and record the amount of fuel fired in the burners, in percent of total possible fuel fired, continuously for DDGS Dryers #1, #2, #3, #4, and #5. This requirement shall not apply on the days the dryer is not in operation.

D. The owner or operator shall maintain records of monthly fuel use by DDGS Dryers #1, #2, #3, #4, and #5, including the type of fuel and amount, according to 40 CFR §60.48c, 40 CFR §63.7555, and 40 CFR §63.7560.

E. Retain a certified statement signed by the owner or operator of the affected source that the records of fuel supplier certifications represent all of the fuel combusted during the reporting period.

F. The owner or operator shall follow the reporting requirements of 40 CFR §60.48c and 40 CFR §63.7550.

G. The reporting period for the reports required under this Subpart is each 6-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period, per 40 CFR §60.48c(j). The reports shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period and fuel supplier certifications.

H. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

Authority for Requirement: DNR PSD Permit #07-A-546-P
DNR PSD Permit #07-A-547-P
DNR PSD Permit #07-A-548-P
DNR PSD Permit #07-A-549-P
DNR PSD Permit #07-A-550-P

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Dry Mill 33.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (acfm)
SEP-425	5202 / 6277	180	Vertical, unobstructed	42	450	22,740
SEP-426	5203 / 6279	180	Vertical, unobstructed	42	450	22,740
SEP-427	5204 / 6281	180	Vertical, unobstructed	42	450	22,740
SEP-428	5205 / 6282	180	Vertical, unobstructed	42	450	22,740
SEP-429	5206 / 6284	180	Vertical, unobstructed	42	450	22,740

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

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

Stack Testing:
The following stack tests shall be performed on SEP-427 only:

Pollutant – Volatile Organic Compounds (VOC)
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 25A (40 CFR Part 60, Appendix A)
Authority for Requirement – 567 IAC 22.108(3)

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 8 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 > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 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.

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** ☐
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☐ **No** ☒

[1] Facility maintained operation and maintenance plan required for NO_x.

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.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-440, SEP-441, SEP-442, SEP-443, SEP-444, SEP-445, SEP-447, SEP-448, SEP-449

Process Area: DRY MILL

Table Dry Mill 34. Associated Equipment.

EP	EU	EU Description	Raw Material/Fuel	Rated Capacity	CE	CE Description
SEP-440	EU-440	Alcohol Process Day Tank #1	200° Ethanol	500,000 gallons	CE-440	Internal Floating Roof
SEP-441	EU-441	Alcohol Process Day Tank #2	200° Ethanol	500,00 gallons	CE-441	Internal Floating Roof
SEP-442	EU-442	Alcohol Process Quality Control Tank	Denatured Ethanol	500,000 gallons	CE-442	Internal Floating Roof
SEP-443	EU-443	Alcohol Process Reclaim Tank	Denatured Ethanol	500,000 gallons	CE-443	Internal Floating Roof
SEP-444	EU-444	Alcohol Storage Tank #1	Denatured Ethanol	2,117,000 gallons	CE-444	Internal Floating Roof
SEP-445	EU-445	Alcohol Storage Tank #2	Denatured Ethanol	2,117,000 gallons	CE-445	Internal Floating Roof
SEP-447	EU-447	Denaturant Storage Tank	Denaturant	500,000 gallons	CE-447	Internal Floating Roof
SEP-448	EU-448	Corrosion Inhibitor Storage Tank	Corrosion Inhibitor	8,500 gallons	None	None
SEP-449	EU-449	190° Alcohol Process Tank	190° Ethanol	100,000 gallons	CE-449	Internal Floating Roof

Applicable Requirements

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

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

Table Dry Mill 35. Emission Limits.

EP	EU	VOC[1]	Authority for Requirement
SEP-440 SEP-441	EU-440 EU-441	1.14 tpy	DNR PSD Permit #07-A-560-P DNR PSD Permit #07-A-561-P
SEP-442 SEP-443	EU-442 EU-443	1.22 tpy	DNR PSD Permit #07-A-562-P DNR PSD Permit #07-A-563-P
SEP-444 SEP-445	EU-444 EU-445	1.26 tpy	DNR PSD Permit #07-A-564-P1 DNR PSD Permit #07-A-565-P1
SEP-447	EU-447	0.607 tpy	DNR PSD Permit #07-A-567-P1
SEP-448	EU-448	0.85 tpy	DNR PSD Permit #07-A-568-P
SEP-449	EU-449	3.18 tpy	DNR PSD Permit #07-A-569-P

[1] Standard is expressed as a 12-month rolling total.

Operational Limits & Requirements

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

Control Device:

SEP-440, SEP-441, SEP-442, SEP-443, SEP-444, SEP-445, SEP-447, SEP-449

An internal floating roof will be used to reduce volatile organic compound emissions. 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 devices at all times.

Authority for Requirement: LCPH ATI 5217 / PTO 6285
LCPH ATI 5218 / PTO 6286
LCPH ATI 5219 / PTO 6287
LCPH ATI 5220 / PTO 6288
LCPH ATI 6615 / PTO 6525
LCPH ATI 6616 / PTO 6526
LCPH ATI 6617 / PTO 6527
LCPH ATI 5227 / PTO 6290

NSPS Applicability:

SEP-440, SEP-441, SEP-442, SEP-443, SEP-444, SEP-445, SEP-447, SEP-449

These emission units are subject to Subpart A - General Provisions (40 CFR §60.1 through 40 CFR §60.19) of the New Source Performance Standards (NSPS) and Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (40 CFR §60.110b through 40 CFR §60.117b) and is also subject to the requirements of 567 IAC 23.1(2)"ddd".

Authority for Requirement: DNR PSD Permit #07-A-560-P
DNR PSD Permit #07-A-561-P
DNR PSD Permit #07-A-562-P
DNR PSD Permit #07-A-563-P
DNR PSD Permit #07-A-564-P1
DNR PSD Permit #07-A-565-P1
DNR PSD Permit #07-A-567-P1
DNR PSD Permit #07-A-569-P

SEP-448

This emission unit is not subject to any New Source Performance Standards (NSPS) at this time. There are no applicable Subparts.

Authority for Requirement: DNR PSD Permit #07-A-568-P, LCPH ATI 5226 / PTO 6289

NESHAP Applicability:

SEP-440, SEP-441, SEP-442, SEP-443, SEP-444, SEP-445, SEP-447, SEP-448, SEP-449

These emission units are subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §60.15) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and Subpart FFFF - Miscellaneous Organic Chemical Manufacturing (40 CFR §63.2430 through 40 CFR §2550) and is also subject to the requirements of 567 IAC 23.1(4)"cf". Not all of the

general provisions in Subpart A are applicable to sources subject to the requirements of Subpart FFFF. See Table 12 to Subpart FFFF of 40 CFR §63 for a detailed listing of which general provisions are applicable.

Authority for Requirement: DNR PSD Permit #07-A-560-P
DNR PSD Permit #07-A-561-P
DNR PSD Permit #07-A-562-P
DNR PSD Permit #07-A-563-P
DNR PSD Permit #07-A-564-P1
DNR PSD Permit #07-A-565-P1
DNR PSD Permit #07-A-567-P1
DNR PSD Permit #07-A-568-P
DNR PSD Permit #07-A-569-P

SEP-440, SEP-441, SEP-442, SEP-443, SEP-444, SEP-445, SEP-447, SEP-449

After the compliance dates specified in 40 CFR §63.2445, compliance with the provisions of NESHAP Subpart FFFF for any storage tank that is assigned to an MCPU and that is controlled with a floating roof can be demonstrated by demonstrating compliance with the provisions of 40 CFR §60 Subpart Kb. Alternatively, compliance with NSPS Subpart Kb may be demonstrated by complying only with the requirements for Group 1 storage tanks in NESHAP Subpart FFFF.

Authority for Requirement: DNR PSD Permit #07-A-560-P
DNR PSD Permit #07-A-561-P
DNR PSD Permit #07-A-562-P
DNR PSD Permit #07-A-563-P
DNR PSD Permit #07-A-564-P1
DNR PSD Permit #07-A-565-P1
DNR PSD Permit #07-A-567-P1
DNR PSD Permit #07-A-569-P

SEP-440, SEP-441, SEP-449

These emission units were initially determined to be a surge control vessel that does not meet the Group 1 storage tank thresholds. Final grouping determination and compliance status determined these tanks to be "exempt" from NESHAP Subpart FFFF requirements. This determination was documented in ADM's November 18, 2010 NOCS, as the maximum true vapor pressure of Total HAP at storage temperature is < 6.9 kPa[1].

Authority for Requirement: NESHAP Subpart FFFF
DNR PSD Permit #07-A-560-P
DNR PSD Permit #07-A-561-P
DNR PSD Permit #07-A-569-P

SEP-442, SEP-443

This emission unit has initially been determined to be a surge control vessel that does not meet the Group 1 storage tank thresholds. Final grouping determination and compliance status will be determined once the facility is constructed[2].

Authority for Requirement: NESHAP Subpart FFFF
DNR PSD Permit #07-A-562-P
DNR PSD Permit #07-A-563-P

[1] DNR PSD Permits #07-A-560-P, #07-A-561-P, and #07-A-569-P initially stated SEP-440, SEP-441, and SEP-449 did not meet the Group 1 storage thank thresholds; however, these permits required "final determination and compliance status [to] be determined once the facility is constructed." ADM submitted this determination in their November 18, 2010 Notification of Compliance Summary (NOCS), in which they confirmed their initial determination of "exempt" status.

[2] DNR PSD Permits #07-A-562-P and #07-A-563-P initially stated SEP-442 and SEP-443 met the Group 1 storage tank thresholds; however, those permits required "final determination and compliance status [to] be determined once the facility is constructed." ADM did not include SEP-442 or SEP-443 in their November 18, 2010 NOCS. It is assumed that the initial determination is correct and these are Group 1 storage tanks for the purposes of NESHAP Subpart FFFF.

Operating Limits:
SEP-440, SEP-441, SEP-442, SEP-443, SEP-444, SEP-445, SEP-447, SEP-448, SEP-449

A. This emission unit is subject to all applicable operating limits set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2430 through 40 CFR §63.2550).

Authority for Requirement: DNR PSD Permit #07-A-560-P
DNR PSD Permit #07-A-561-P
DNR PSD Permit #07-A-562-P
DNR PSD Permit #07-A-563-P
DNR PSD Permit #07-A-564-P1
DNR PSD Permit #07-A-565-P1
DNR PSD Permit #07-A-567-P1
DNR PSD Permit #07-A-568-P
DNR PSD Permit #07-A-569-P

SEP-440, SEP-441, SEP-442, SEP-443, SEP-444, SEP-445, SEP-447, SEP-449

B. This emission unit is subject to all applicable operating limits set forth in NSPS Subparts A (40 CFR §60.1 through 40 CFR §60.19) and Kb (40 CFR §60.110b through 40 CFR §60.117b).

C. The owner or operator shall maintain the control equipment according to manufacturer's specifications and maintenance schedule.

Authority for Requirement: DNR PSD Permit #07-A-560-P
DNR PSD Permit #07-A-561-P
DNR PSD Permit #07-A-562-P
DNR PSD Permit #07-A-563-P
DNR PSD Permit #07-A-564-P1
DNR PSD Permit #07-A-565-P1
DNR PSD Permit #07-A-567-P1
DNR PSD Permit #07-A-569-P

SEP-440, SEP-441, SEP-449

D. This emission unit and control device shall be designed and operated to meet the requirements of 40 CFR §60.112b(a)(1), as required by the best available control technology (BACT) analysis.

E. The facility shall comply with all applicable requirements for this emission unit, according to the provisions in 40 CFR §63.2450.

Authority for Requirement: DNR PSD Permit #07-A-560-P
DNR PSD Permit #07-A-561-P
DNR PSD Permit #07-A-569-P

SEP-442, SEP-443, SEP-444, SEP-445, SEP-447

F. The tank shall be designed and operated to meet the requirements for an internal floating roof in 40 CFR §63.1062 through 40 CFR §63.1063 and 40 CFR §60.112b, as required by the best available control technology (BACT) analysis.

Authority for Requirement: DNR PSD Permit #07-A-562-P
DNR PSD Permit #07-A-563-P
DNR PSD Permit #07-A-564-P1
DNR PSD Permit #07-A-565-P1
DNR PSD Permit #07-A-567-P1

SEP-442, SEP-443

G. The facility shall comply with all applicable requirements for this emission unit, according to the provisions in 40 CFR §63.2450 and 40 CFR §60.112b.

Authority for Requirement: DNR PSD Permit #07-A-562-P
DNR PSD Permit #07-A-563-P
DNR PSD Permit #07-A-565-P1

SEP-444, SEP-445, SEP-447

H. The facility shall comply with all applicable requirements for the storage tank according to the provisions in 40 CFR §63.2470 and 40 CFR §60.112b.

Authority for Requirement: DNR PSD Permit #07-A-564-P1
DNR PSD Permit #07-A-567-P1

SEP-448

I. The facility shall comply with all applicable requirements for the storage tank, according to the provisions in 40 CFR §63.2470.

Authority for Requirement: DNR PSD Permit #07-A-568-P

Operating Condition Monitoring:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

SEP-440, SEP-441, SEP-442, SEP-443, SEP-444, SEP-445, SEP-447, SEP-448, SEP-449

A. Record monthly the total amounts of 200° ethanol (SEP-440, SEP-441), denatured ethanol (SEP-442, SEP-443, SEP-444), denatured alcohol (SEP-445), denaturant (SEP-447), corrosion inhibitor (SEP-448), and 190° ethanol (SEP-449) processed through each individual emission unit each month, in gallons. Calculate VOC emissions, both working and breathing losses, from each tank, in tons, on a monthly basis, and record the 12-month rolling total.

Authority for Requirement: DNR PSD Permit #07-A-560-P
DNR PSD Permit #07-A-561-P
DNR PSD Permit #07-A-562-P
DNR PSD Permit #07-A-563-P
DNR PSD Permit #07-A-564-P1
DNR PSD Permit #07-A-565-P1
DNR PSD Permit #07-A-567-P1
DNR PSD Permit #07-A-568-P
DNR PSD Permit #07-A-569-P

SEP-440, SEP-441, SEP-442, SEP-443, SEP-444, SEP-445, SEP-447, SEP-449

B. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control device.

Authority for Requirement: DNR PSD Permit #07-A-560-P
DNR PSD Permit #07-A-561-P
DNR PSD Permit #07-A-562-P
DNR PSD Permit #07-A-563-P
DNR PSD Permit #07-A-564-P1
DNR PSD Permit #07-A-565-P1
DNR PSD Permit #07-A-567-P1
DNR PSD Permit #07-A-569-P

SEP-440, SEP-441, SEP-449

C. The owner or operator of this tank shall follow the testing and observation procedures of 40 CFR §60.113b(a), as required by the best available control technology (BACT) analysis.

D. This emission unit is subject to all applicable recordkeeping, notification, and reporting requirements, as set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2515, 40 CFR §63.2520, and 40 CFR §63.2525), and NSPS Subparts A (40 CFR §60.1 through 40 CFR §60.19) and Kb (40 CFR §60.115b and 40 CFR §60.116b). Reporting and recordkeeping shall include keeping the following records:

E. Certification that the internal floating roof meets the specifications of 40 CFR §60.112b(a)(1) and 40 CFR §60.113(a)(1).

F. A record of each inspection performed as required by 40 CFR §113b(a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall include the date of the inspection and the observed condition of each component of the control equipment (seals, internal floating roof, fittings, etc.). If an

inspection finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects as listed in 40 CFR §60.113b(a)(3)(ii), the record shall include the reason the tank did not meet the specifications of 40 CFR §60.112b(a)(1) and 40 CFR §60.113b(a)(3) and a description of the repairs made.

Authority for Requirement: DNR PSD Permit #07-A-560-P
DNR PSD Permit #07-A-561-P
DNR PSD Permit #07-A-569-P

SEP-442, SEP-443, SEP-444, SEP-445, SEP-447

G. This emission unit is subject to all applicable recordkeeping, notification, and reporting requirements, as set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15), FFFF (40 CFR §63.2515, 40 CFR §63.2520, and 40 CFR §63.2525), and WW (40 CFR §63.1065 and 40 CFR §63.1066); and NSPS Subparts A (40 CFR §60.1 through 40 CFR §60.19) and Kb (40 CFR §60.115b and 40 CFR §60.116b). Reporting and recordkeeping shall include keeping the following records:

1) A record of the dimensions of the storage vessel, an analysis of the capacity of the storage vessel, and an identification of the liquid stored.

2) Certification that the internal floating roof meets the specifications of 40 CFR §60.112b(a)(1) and 40 CFR §60.113(a)(1) or 40 CFR §63.1062 and 40 CFR §63.1063.

3) A record of each inspection performed. Each record shall identify the storage vessel on which the inspection was performed and shall include the date of the inspection and the observed condition of each component of the control equipment (seals, internal floating roof, etc.). If an inspection finds control equipment defects, the record shall include the reason the tank did not meet the specifications and a description of the repairs made.

Authority for Requirement: DNR PSD Permit #07-A-562-P
DNR PSD Permit #07-A-563-P
DNR PSD Permit #07-A-564-P1
DNR PSD Permit #07-A-565-P1
DNR PSD Permit #07-A-567-P1

SEP-442, SEP-443

H. The owner or operator of this tank shall follow the testing and observation procedures of 40 CFR §60.113b(a) and repair requirements of 40 CFR §63.1063, as required by the best available control technology (BACT) analysis.

Authority for Requirement: DNR PSD Permit #07-A-562-P
DNR PSD Permit #07-A-563-P

SEP-444, SEP-445, SEP-447

I. The owner or operator of this tank shall follow the testing and observation procedures of 40 CFR §60.113b(a) and the inspection and repair requirements of 40 CFR §63.1063, as required by the BACT analysis.

Authority for Requirement: DNR PSD Permit #07-A-564-P1
DNR PSD Permit #07-A-565-P1
DNR PSD Permit #07-A-567-P1

SEP-448

J. This emission unit is subject to all applicable recordkeeping, notification, and reporting requirements, as set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2515, 40 CFR §63.2520, and 40 CFR §63.2525).

Authority for Requirement: DNR PSD Permit #07-A-568-P

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Dry Mill 36.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (acfm)**
SEP-440	5217 / 6285	48	Horizontal	10 x 24 (4 vents)	90	Breathing losses
SEP-441	5218 / 6286	48	Horizontal	10 x 24 (4 vents)	90	Breathing losses
SEP-442	5219 / 6287	48	Horizontal	10 x 24 (4 vents)	80	Breathing losses
SEP-443	5220 / 6288	48	Horizontal	10 x 24 (4 vents)	80	Breathing losses
SEP-444	6615 / 6525	48	Horizontal	10 x 24 (5 vents)	80	Breathing losses
SEP-445	6616 / 6526	48	Horizontal	10 x 24 (5 vents)	80	Breathing losses
SEP-447	6617 / 6527	48	Horizontal	10 x 24 (4 vents)	Ambient	Breathing losses
SEP-448	5226 / 6289	14	Vertical, unobstructed	3	Ambient	Breathing losses
SEP-449	5227 / 6290	36	Horizontal	10 x 24 (4 vents)	170	Breathing losses

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

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-450, SEP-451

Process Area: DRY MILL

Table Dry Mill 37. Associated Equipment.

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity	CE	CE Description
SEP-450 SEP-451	EU-450A	Alcohol Loadout Spout #1	Ethanol	60,000 gal/hr	CE-450 CE-451	Enclosed Flare Enclosed Flare
SEP-450 SEP-451	EU-450B	Alcohol Loadout Spout #2	Ethanol	60,000 gal/hr	CE-450 CE-451	Enclosed Flare Enclosed Flare
SEP-450 SEP-451	EU-450C	Alcohol Loadout Spout #3	Ethanol	60,000 gal/hr	CE-450 CE-451	Enclosed Flare Enclosed Flare
SEP-450 SEP-451	EU-450D	Alcohol Loadout Spout #4	Ethanol	60,000 gal/hr	CE-450 CE-451	Enclosed Flare Enclosed Flare
SEP-450 SEP-451	EU-450E	Alcohol Loadout Spout #5	Ethanol	60,000 gal/hr	CE-450 CE-451	Enclosed Flare Enclosed Flare
SEP-450 SEP-451	EU-450F	Alcohol Loadout Spout #6	Ethanol	60,000 gal/hr	CE-450 CE-451	Enclosed Flare Enclosed Flare
SEP-450 SEP-451	EU-450G	Alcohol Loadout Spout #7	Ethanol	60,000 gal/hr	CE-450 CE-451	Enclosed Flare Enclosed Flare
SEP-450 SEP-451	EU-450H	Alcohol Loadout Spout #8	Ethanol	60,000 gal/hr	CE-450 CE-451	Enclosed Flare Enclosed Flare

Applicable Requirements

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

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

Table Dry Mill 38. Opacity and Particulate Matter Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Authority for Requirement
SEP-450 SEP-451	EU-450A through EU-450H	0%[1]	0.0075 lb/MMBtu[2] 0.36 tpy[3] 0.10 lb/hr[2]	0.0075 lb/MMBtu[2] 0.36 tpy[3]	DNR PSD Permit #07-A-570-P1 DNR PSD Permit #07-A-571-P1

Table Dry Mill 39. Sulfur Dioxide Emission Limits.

EP	EU	SO_2	Authority for Requirement
SEP-450 SEP-451	EU-450A through EU-450H	0.0025 lb/MMBtu[2] 0.07 tpy[3] 0.10 lb/hr[2]	DNR PSD Permit #07-A-570-P1 DNR PSD Permit #07-A-571-P1

Table Dry Mill 40. Nitrogen Oxides and Carbon Monoxide Emission Limits.

EP	EU	NO_X	CO	Authority for Requirement
SEP-450 SEP-451	EU-450A through EU-450H	4 mg/L[2] 12.56 tpy[3] 12.02 lb/hr[2]	10 mg/L[2] 31.39 tpy[3] 30.01 lb/hr[2]	DNR PSD Permit #07-A-570-P1 DNR PSD Permit #07-A-571-P1

Table Dry Mill 41. Other Emission Limits.

EP	EU	VOC	Authority for Requirement
SEP-450 SEP-451	EU-450A through EU-450H	98% reduction[4] and 10.17 lb/hr[5] 10.86 tpy[3]	DNR PSD Permit #07-A-570-P1 DNR PSD Permit #07-A-571-P1

Table Dry Mill 42. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-450 SEP-451	EU-450A through EU-450H	Opacity	40%	567 IAC 23.3(2)"d"
			20%	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2) LCO 10.9(1)"a"
		SO_2	500 ppm_v	567 IAC 23.3(3)"e" LCO 10.12(2)

[1] Standard is expressed as a six-minute average.
[2] Standard is expressed as the average of 3 test runs.
[3] Ton per year limits are the sum of emissions from SEP-450 and SEP-451 and correlate to an alcohol loadout limit of 752,325,000 gallons per year total from both emission points.
[4] The percent reduction limit applies across the enclosed flare (CE-450, CE-451).
[5] The pound per hour limit is the limit from the exhaust of the enclosed flare (CE-450, CE-451).

Operational Limits & Requirements

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

Control Device:

An enclosed flare will be used to reduce volatile organic compound emissions. 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 devices at all times.

Authority for Requirement: DNR PSD Permit #07-A-570-P1
DNR PSD Permit #07-A-571-P1

NSPS and NESHAP Applicability:
These emission units are subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §60.15) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and Subpart FFFF - Miscellaneous Organic Chemical Manufacturing (40 CFR §63.2430 through 40 CFR §63.2550) and is also subject to the requirements of 567 IAC 23.1(4)"cf". Not all of the general provisions in Subpart A are applicable to sources subject to the requirements of Subpart FFFF. See Table 12 to Subpart FFFF of 40 CFR §63 for a detailed listing of which general provisions are applicable.

These emission units are subject to Subpart A - General Provisions (40 CFR §60.1 through 40 CFR §60.19) of the New Source Performance Standards (NSPS) and Subpart VV - Standards of Performance for Equipment Leaks of Volatile Organic Compounds in the Synthetic Organic Chemical Manufacturing Industry.

Authority for Requirement: DNR PSD Permit #07-A-570-P1
DNR PSD Permit #07-A-571-P1

Operating Limits:

A. The total amount of denatured ethanol loaded out through Alcohol Loadout Spouts #1 through #8, EU-450A through EU-450H, shall not exceed 752,325,000 gallons per 12-month period.

B. The enclosed flare, CE-451, shall only control loadout vapors from the loading of up to 6,000 gallons per minute of ethanol. If more than 6,000 gallons per minute of ethanol are being loaded at any one time, the additional loadout vapors shall be vented to the second enclosed flare, CE-450.

C. The facility shall not switch-load (i.e., fill railcars with denatured ethanol when the previous load was gasoline) at Alcohol Loadout Spouts #1 through #8, EU-450A through EU-450H. Only dedicated railcars shall be used for alcohol loadout at this point.

D. The inflatable hatch seal on the vapor recovery system shall be visually inspected for any defects and to ensure that it is properly seated on the railcar hatch opening prior to each hookup. Inflatable hatch seals that are damaged shall be removed from service until they are repaired or replaced.

E. The Alcohol Loadout Spouts #1 through #8, EU-450A through EU-450H, shall either be vented through SEP-451 and its accompanying control equipment, or through SEP-450 and its accompanying control equipment, or through a combination of these two emission points. The alcohol loadout spouts shall at no time operate uncontrolled.

F. The flare shall be designed and operated to meet the minimum requirements of 40 CFR §60.18b through 40 CFR §60.18f.

G. This emission unit is subject to all applicable operating limits set forth in NSPS Subparts A (40 CFR §60.1 through 40 CFR §60.19) and VV (40 CFR §60.480 through 40 CFR §60.489).

H. This emission unit is subject to all applicable operating limits set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2430 through 40 CFR §63.2550). Specifically, the facility shall comply with all applicable requirements for each transfer rack according to the provisions in 40 CFR §63.2475.

I. The auxiliary fuel used in the flare is limited to natural gas, biogas, or propane.

J. The owner or operator shall maintain the control equipment according to manufacturer's specifications and maintenance schedule.

Authority for Requirement: DNR PSD Permit #07-A-570-P1
DNR PSD Permit #07-A-571-P1

Operating Condition Monitoring:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Record monthly, the total amount of denatured ethanol loaded out through these emission units each month in gallons. Calculate and record 12-month rolling totals.

B. For each loading event, continuously record the gallons per minute of ethanol loaded and how many gallons per minute of ethanol was vented to each emission point.

C. The owner or operator shall monitor the presence of the pilot flame and other parameters of the flare, according to the provisions of 40 CFR §60.18.

D. The owner or operator shall follow the applicable recordkeeping and reporting standards of NSPS Subpart VV (40 CFR §60.486 and 40 CFR §60.487).

E. This emission unit is subject to all applicable recordkeeping, notification, and reporting requirements, as set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2515, 40 CFR §63.2520, and 40 CFR §63.2525).

F. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the monitoring device.

Authority for Requirement: DNR PSD Permit #07-A-570-P1
DNR PSD Permit #07-A-571-P1

<u>Emission Point Characteristics</u>
The emission point shall conform to the specifications listed below.

Table Dry Mill 43.

		Stack Characteristics				
EP	**LCPH ATI / PTO Numbers**	**Stack Height (feet, above ground)**	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (scfm)**
SEP-450	5228 / 6308	30	Vertical, unobstructed	96	1,800	12,500
SEP-451	5229 / 6309	30	Vertical, unobstructed	96	1,800	12,500

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

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 8 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 > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 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.

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** ☐
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☐ **No** ☒

[1] Facility maintained operation and maintenance plan is required for CO for SEP-051 only.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-452, SEP-453, SEP-454, SEP-455, SEP-457
Process Area: DRY MILL

Table Dry Mill 44. Associated Equipment.

EP	EU	EU Description	Raw Material /Fuel	Rated Capacity	CE	CE Description
SEP-452	EU-452	Fire Pump Engine #1	Diesel	540-hp	None	None
SEP-453	EU-453	Fire Pump Engine #2	Diesel	540-hp	None	None
SEP-454	EU-454	Fire Pump Engine #3	Diesel	540-hp	None	None
SEP-455	EU-455	Fire Pump Engine #4	Diesel	540-hp	None	None
SEP-457	EU-457	Emergency Generator #2	Diesel	1,500 kW	None	None

Applicable Requirements

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

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

Table Dry Mill 45. Opacity and Particulate Matter Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Authority for Requirement
SEP-452 SEP-453 SEP-454 SEP-455	EU-452 EU-453 EU-454 EU-455	5%[1]	0.15 g/bhp-hr[2] 0.04 tpy[3] 0.18 lb/hr[2,4]	0.15 g/bhp-hr[2] 0.04 tpy[3]	DNR PSD Permit #07-A-572-P DNR PSD Permit #07-A-573-P DNR PSD Permit #07-A-574-P DNR PSD Permit #07-A-575-P
				0.15 g/bhp-hr[2] (filterable only)	40 CFR §60.4200
SEP-457	EU-457	5%[1]	0.15 g/bhp-hr[2] 0.17 tpy[3] 0.67 lb/hr[2,4]	0.15 g/bhp-hr[2] 0.17 tpy[3]	DNR PSD Permit #07-A-577-P
				0.15 g/bhp-hr[2] (filterable only)	40 CFR §60.4200

Table Dry Mill 46. Sulfur Dioxide Emission Limits.

EP	EU	SO_2	Authority for Requirement
SEP-452 SEP-453 SEP-454 SEP-455	EU-452 EU-453 EU-454 EU-455	0.17 g/bhp-hr[2,5] 0.05 tpy[3] 0.20 lb/hr[2,4]	DNR PSD Permit #07-A-572-P DNR PSD Permit #07-A-573-P DNR PSD Permit #07-A-574-P DNR PSD Permit #07-A-575-P
SEP-457	EU-457	0.17 g/bhp-hr[2,5] 0.18 tpy[3] 0.73 lb/hr[2,4]	DNR PSD Permit #07-A-577-P

Table Dry Mill 47. Nitrogen Oxides and Carbon Monoxide Emission Limits.

EP	EU	NO_X	CO	Authority for Requirement
SEP-452 SEP-453 SEP-454 SEP-455	EU-452 EU-453 EU-454 EU-455	2.8 g/bhp-hr[2] 0.83 tpy[3] 3.33 lb/hr[2,4]	2.6 g/bhp-hr[2] 0.78 tpy[3] 3.10 lb/hr[2,4]	DNR PSD Permit #07-A-572-P DNR PSD Permit #07-A-573-P DNR PSD Permit #07-A-574-P DNR PSD Permit #07-A-575-P
SEP-457	EU-457	4.5 g/bhp-hr[2] 5.29 tpy[3] 21.17 lb/hr[2,4]	2.6 g/bhp-hr[2] 2.88 tpy[3] 11.53 lb/hr[2,4]	DNR PSD Permit #07-A-577-P

Table Dry Mill 48. Other Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-452 SEP-453 SEP-454 SEP-455	EU-452 EU-453 EU-454 EU-455	VOC	0.2 g/bhp-hr[2] 0.06 tpy[3]	DNR PSD Permit #07-A-572-P DNR PSD Permit #07-A-573-P DNR PSD Permit #07-A-574-P DNR PSD Permit #07-A-575-P
		NO_X + NMHC[6]	3.0 g/bhp-hr[2]	40 CFR §60.4200
SEP-457	EU-457	VOC	0.3 g/bhp-hr[2] 0.33 tpy[3]	DNR PSD Permit #07-A-577-P
		NO_X + NMHC[6]	4.8 g/bhp-hr[2]	40 CFR §60.4200

Table Dry Mill 49. Fuel Sulfur Requirements (beginning October 1, 2007).

EP	EU	Fuel Sulfur Requirements	Authority for Requirement
SEP-452 SEP-453 SEP-454 SEP-455 SEP-457	EU-452 EU-453 EU-454 EU-455 EU-457	Max 500 ppm Sulfur and Min Cetane Index = 40 or Max Aromatic Content = $35\%_{vol}$	40 CFR §80.510(a)

Table Dry Mill 50. Fuel Sulfur Requirements (beginning October 1, 2010).

EP	EU	Fuel Sulfur Requirements	Authority for Requirement
SEP-452 SEP-453 SEP-454 SEP-455 SEP-457	EU-452 EU-453 EU-454 EU-455 EU-457	Max 15 ppm Sulfur and Min Cetane Index = 40 or Max Aromatic Content = $35\%_{vol}$	40 CFR §80.510(b)

Table Dry Mill 51. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-452 SEP-453 SEP-454 SEP-455 SEP-457	EU-452 EU-453 EU-454 EU-455 EU-457	Opacity	40%	567 IAC 23.3(2)"d"
			20%	LCO 10.7
		SO_2	2.5 lb/MMBtu	567 IAC 23.3(3)"b"(2)
			1.5 lb/MMBtu	LCO 10.12(1)"b"

[1] Standard is expressed as a six-minute average and applies only during normal operation. A standard of 20% opacity applies during times of startup, shutdown, and malfunction.
[2] Standard is expressed as the average of 3 test runs.
[3] Ton per year limits correlate to an operating limit of 500 hours per year.
[4] The limit for PM_{10} emissions is established to limit emissions below levels that predict exceedances of the 24-hour NAAQS for PM_{10}. The limit for SO_2 emissions is established to limit emissions below levels that predict exceedances of the 3-hour, 24-hour, and annual NAAQS for SO_2. The limit for NO_X emissions is established to limit emissions below levels that predict exceedances of the annual NAAQS for NO_X. The limit for CO emissions is established to limit emissions below levels that predict exceedances of the 1-hour and 8-hour NAAQS for CO.
[5] Standard corresponds to the use of diesel fuel containing no more than 0.05% sulfur, by weight.
[6] Nitrogen Oxides (NO_X) + Non-Methane Hydrocarbons (NMHC)

<u>Operational Limits & Requirements</u>
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS and NESHAP Applicability:
This emission unit is subject to the New Source Performance Standards (NSPS) Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR §60.4200 through 40 CFR §60.4219) and to NSPS Subpart A - General Provisions (40 CFR §60.1 through 40 CFR §60.19) and is also subject to the requirements of 567 IAC 23.1(2)"yyy".

This emission unit is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart ZZZZ - Stationary Reciprocating Internal Combustion Engines (40 CFR §63.6580 through 40 CFR §63.6675) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) and is also subject to the requirements of 567 IAC 23.1(4)"cz". This generator is considered an Emergency Stationary Reciprocating Internal Combustion Engine (RICE) and is only subject to the initial notification requirements of 40 CFR §63.6645(c). By NESHAP definition, Emergency Stationary RICE may operate only 50 hours per year in non-emergency situations.

Failure to include any NSPS or NESHAP requirements as a part of this permit does not relieve the permittee from the requirement to comply with all applicable NSPS or NESHAP requirements.

Authority for Requirement: DNR PSD Permit #07-A-572-P
DNR PSD Permit #07-A-573-P
DNR PSD Permit #07-A-574-P
DNR PSD Permit #07-A-575-P
DNR PSD Permit #07-A-577-P

Operating Limits:

A. Fire Pump Engine #1 (SEP-452), Fire Pump Engine #2 (SEP-453), Fire Pump Engine #3 (SEP-454), Fire Pump Engine #4 (SEP-455), and Emergency Generator #2 (SEP-457) shall operate only in emergency situations or for routine maintenance and testing.

B. Fire Pump Engine #1 (SEP-452), Fire Pump Engine #2 (SEP-453), Fire Pump Engine #3 (SEP-454), Fire Pump Engine #4 (SEP-455), and Emergency Generator #2 (SEP-457) shall not operate more than 500 hours per rolling 12-month period.

C. Per 40 CFR §60.4211, emergency stationary internal combustion engine (ICE) may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine for a maximum of 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year.

D. Fire Pump Engine #1 (SEP-452), Fire Pump Engine #2 (SEP-453), Fire Pump Engine #3 (SEP-454), Fire Pump Engine #4 (SEP-455), and Emergency Generator #2 (SEP-457) shall be limited to using diesel fuel with a maximum sulfur content not to exceed 0.05% by weight.

E. Beginning October 1, 2007, diesel fuel fired in Fire Pump Engine #1 (SEP-452), Fire Pump Engine #2 (SEP-453), Fire Pump Engine #3 (SEP-454), Fire Pump Engine #4 (SEP-455), and Emergency Generator #2 (SEP-457) shall be limited to a maximum sulfur content of 500 ppm and a minimum cetane index of 40 or a maximum aromatic content of 30%, by volume, per 40 CFR §80.510(a).

F. Beginning October 1, 2010, diesel fuel fired in Fire Pump Engine #1 (SEP-452), Fire Pump Engine #2 (SEP-453), Fire Pump Engine #3 (SEP-454), Fire Pump Engine #4 (SEP-455), and Emergency Generator #2 (SEP-457) shall be limited to a maximum sulfur content of 15 ppm and a minimum cetane index of 40 or a maximum aromatic content of 30%, by volume, per 40 CFR §80.510(b).

G. Per 40 CFR §60.4207, owners and operators of pre-2011 model year diesel generators subject to NSPS Subpart IIII (40 CFR §60.4200 through 40 CFR §60.4219) may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of 40 CFR §80.510(a) or 40 CFR §80.510(b) beyond the dates required, for the purpose of using up existing fuel inventories.

Authority for Requirement: DNR PSD Permit #07-A-572-P
DNR PSD Permit #07-A-573-P
DNR PSD Permit #07-A-574-P
DNR PSD Permit #07-A-575-P
DNR PSD Permit #07-A-577-P

Operating Condition Monitoring

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator of Fire Pump Engine #1 (SEP-452), Fire Pump Engine #2 (SEP-453), Fire Pump Engine #3 (SEP-454), Fire Pump Engine #4 (SEP-455), and Emergency Generator #2 (SEP-457) shall install a non-resettable hour meter prior to startup of the engine, per 40 CFR §60.4209.

B. Record each month the total hours of operation for Fire Pump Engine #1 (SEP-452), Fire Pump Engine #2 (SEP-453), Fire Pump Engine #3 (SEP-454), Fire Pump Engine #4

(SEP-455), and Emergency Generator #2 (SEP-457) and the reason the Fire Pump was operated. Calculate and record rolling 12-month totals.

C. Maintain records of the sulfur content of the fuel oil utilized in Fire Pump Engine #1 (SEP-452), Fire Pump Engine #2 (SEP-453), Fire Pump Engine #3 (SEP-454), Fire Pump Engine #4 (SEP-455), and Emergency Generator #2 (SEP-457).

D. The owner or operator of Fire Pump Engine #1 (SEP-452), Fire Pump Engine #2 (SEP-453), Fire Pump Engine #3 (SEP-454), Fire Pump Engine #4 (SEP-455), and Emergency Generator #2 (SEP-457) shall follow the monitoring requirements of 40 CFR §60.4209.

E. The owner or operator of Fire Pump Engine #1 (SEP-452), Fire Pump Engine #2 (SEP-453), Fire Pump Engine #3 (SEP-454), Fire Pump Engine #4 (SEP-455), and Emergency Generator #2 (SEP-457) shall follow the compliance requirements of 40 CFR §60.4211.

F. The owner or operator of Fire Pump Engine #1 (SEP-452), Fire Pump Engine #2 (SEP-453), Fire Pump Engine #3 (SEP-454), Fire Pump Engine #4 (SEP-455), and Emergency Generator #2 (SEP-457) shall follow the notification, reporting, and recordkeeping requirements of 40 CFR §60.4214(b).

Authority for Requirement: DNR PSD Permit #07-A-572-P
DNR PSD Permit #07-A-573-P
DNR PSD Permit #07-A-574-P
DNR PSD Permit #07-A-575-P
DNR PSD Permit #07-A-577-P

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Dry Mill 52.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	**Discharge Style**	**Stack Opening (inches, dia.)**	**Exhaust Temp. (°F)**	**Exhaust Flow Rate (scfm)**
SEP-452	5230 / 6291	25	Vertical, unobstructed	10	955	1,460
SEP-453	5236 / 6292	25	Vertical, unobstructed	10	955	1,460
SEP-454	5237 / 6293	25	Vertical, unobstructed	10	955	1,460
SEP-455	5231 / 6294	25	Vertical, unobstructed	10	955	1,460
SEP-457	5233 / 6295	45	Vertical, unobstructed	12	764	4,790

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

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

Opacity Monitoring:

Opacity monitoring is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-478

Table Dry Mill 53. Associated Equipment.

EP	EU	EU Description	Raw Material/Fuel	Rated Capacity	CE	CE Description
SEP-478	EU-478	DDGS Flat Storage Ventilation	DDGS	400 ton/hr	CE-478	Baghouse
SEP-478	EU-478A	DDGS Rail Loading Shuttle Drag Conveyor	DDGS	400 ton/hr	CE-478	Baghouse

Applicable Requirements

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

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

Table Dry Mill 54. Opacity and Particulate Matter Emission Limits.

EP	EU	PM_{10}	Authority for Requirement
SEP-478	EU-478 EU-478A	1.714 lb/hr[1,2]	LCPH ATI 6734 / PTO 6601

Table Dry Mill 55. Other Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-478	EU-478A	VOC	3.58 lb/hr[1]	LCPH ATI 6734 / PTO 6601
		Acetaldehyde	0.83 lb/hr[1]	LCPH ATI 6734 / PTO 6601
		Acrolein	0.62 lb/hr[1]	LCPH ATI 6734 / PTO 6601
		Formaldehyde	0.59 lb/hr[1]	LCPH ATI 6734 / PTO 6601
		Methanol	0.60 lb/hr[1]	LCPH ATI 6734 / PTO 6601
		Total HAP	1.73 lb/hr[1]	LCPH ATI 6734 / PTO 6601

Table Dry Mill 56. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-478	EU-478 EU-478A	Opacity	20%[3,4]	LCO 10.7
		PM	0.1 gr/dscf	567 IAC 23.3(2) LCO 10.9(1)"a"

[1] Standard is expressed as the average of 3 runs.
[2] Emission rate used to demonstrate no exceedance of the National Ambient Air Quality Standards (NAAQS).
[3] The emission limit is a six (6) minute average.
[4] The observation of visible emissions of air contaminants, as defined in LCO 10.2, will require the owner/operator to promptly investigate the emission unit and make corrections to operations

or equipment associated with the visible emissions. If visible emissions continue after the corrections, Linn County may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Requirements

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

Control Device:

A baghouse will be used to control particulate matter emissions. 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 devices at all times.

Authority for Requirement: LCPH ATI 6734 / PTO 6601

Operating Limits:

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

B. The differential pressure across the baghouse shall be 0.5 inches of water column to 8 inches of water column.

Authority for Requirement: LCPH ATI 6734 / PTO 6601

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 Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall monitor and record 'no visible emissions' observation 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. Record all maintenance and repair completed on the control device.

C. Monitor and record differential pressure across the baghouse on a weekly basis.

Authority for Requirement: LCPH ATI 6734 / PTO 6601

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 140
Discharge Style: Vertical, unobstructed
Stack Opening, (diameter, inches): 52
Exhaust Temperature (°F): Ambient
Exhaust Flow Rate (acfm): 50,000
Authority for Requirement: LCPH ATI 6734 / PTO 6601

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate

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

Monitoring Requirements

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

Stack Testing:

The following stack testing shall be performed:

Table Dry Mill 57. Required Stack Testing.

Pollutant	1st Stack Test to be Completed by	Test Method
PM	Within first two years of permit term[1]	40 CFR 60, Appendix A, Method 5 40 CFR 51, Appendix M, Method 202
PM_{10}	Within first two years of permit term[1]	40 CFR 51, Appendix M, Methods 201A w/ 202
HAP	Within first two years of permit term	40 CFR 60, Appendix A, Method 18

[1] Testing was completed on December 1, 2015 for PM and PM_{10}. The results were submitted to LCPH on January 19, 2016 and are currently pending review. The results from this test will be considered sufficient to meet the testing requirement above, so long as the results meet the established emission limits. If the results show an exceedance, additional stack testing will be required.

Authority for Requirement: 567 IAC 22.108(3)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 8 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 > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 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.

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** ☐
Compliance Assurance Monitoring (CAM) Plan Required?	**Yes** ☐ **No** ☒

[1] Facility maintenance operation and maintenance plan is required for PM.

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.

Facility operation and maintenance plans are to be developed by the facility within six (6) months of the issuance date of this permit and the data pertaining to the plan maintained on-site for at least 5 years. The plan and associated recordkeeping provides 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)

Emission Point ID Number: SEP-479

Table Dry Mill 58. Associated Equipment.

EP	EU	EU Description	Raw Material /Fuel	Rated Capacity	CE	CE Description
SEP-479	EU-479	Sulfuric Acid Storage Tank	Sulfuric Acid	43,620 gallons	None	None

Applicable Requirements

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

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

Table Dry Mill 59. Opacity and Particulate Matter Emission Limits.

EP	EU	Opacity	PM_{10}	Authority for Requirement
SEP-479	EU-479	0%[1]	Work Practice Standard[2]	DNR PSD Permit #07-A-582-P

Table Dry Mill 60. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-479	EU-479	Opacity	40%	567 IAC 23.3(2)"d"
			20%	LCO 10.7
		PM	0.1 gr/dscf[2]	567 IAC 23.3(2) LCO 10.9(1)"a"

[1] Standard is expressed as a six-minute average.
[2] BACT limits for PM and PM_{10} is expressed in the form of a work practice standard, as opposed to an emission limit. See 'Operating Limits' for work practice requirements.

Operational Limits & Requirements

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

Operating Limits:

A. The owner or operator shall fill, operate, and maintain the Sulfuric Acid Storage Tank in a manner to minimize sulfuric acid emissions. At a minimum, the owner or operator shall fill the tank using submerged loading.

Authority for Requirement: DNR PSD Permit #07-A-582-P

Operating Condition Monitoring:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall maintain a record of all actions taken to minimize emissions of sulfuric acid from the Sulfuric Acid Storage Tank.

Authority for Requirement: DNR PSD Permit #07-A-582-P

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 2
Discharge Style: Horizontal
Stack Opening, (diameter, inches): 3
Exhaust Temperature (°F): 68
Exhaust Flow Rate (scfm): 100
Authority for Requirement: DNR PSD Permit #07-A-582-P

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

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

Stack Testing:
Stack testing is not required at this time.

Opacity Monitoring:
Opacity monitoring is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-480

Table Dry Mill 61. Associated Equipment.

EP	EU	EU Description	Raw Material/Fuel	Rated Capacity	CE	CE Description
SEP-480	EU-480	Flat Feed Storage and Reclaim Building	DDGS	700,000 ft^3	None	None

Applicable Requirements

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

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

Table Dry Mill 62. Opacity and Particulate Matter Emission Limits.

EP	EU	Opacity	PM-10	Authority for Requirement
SEP-480	EU-480	No Visible Emissions	Work Practice Standard[1]	DNR PSD Permit #07-A-583-P

Table Dry Mill 63. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-480	EU-480	Opacity	40%	567 IAC 23.3(2)"d"
			20%	LCO 10.7
		PM	0.1 gr/dscf[1]	567 IAC 23.3(2) LCO 10.9(1)"a"

[1] BACT limits for PM and PM_{10} is expressed in the form of a work practice standard, as opposed to an emission limit. See 'Operating Limits' for work practice requirements.

Operational Limits & Requirements

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

Operating Limits:

A. The owner or operator shall operate and maintain the Flat Feed Storage and Reclaim Building in a manner to minimize particulate emissions. At a minimum, this shall include keeping all doors and windows closed while material is being transferred or stored within the building.

Authority for Requirement: DNR PSD Permit #07-A-583-P

Operating Condition Monitoring:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall maintain a record of all actions taken to minimize emissions of particulate matter from the Flat Feed Storage and Reclaim Building.

B. The owner or operator shall observe the Flat Feed Storage and Reclaim Building at least once per day from all four sides of the building to ensure there are no visible emissions from operations occurring within the building.

Authority for Requirement: DNR PSD Permit #07-A-583-P

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): NA
Discharge Style: NA
Stack Opening, (diameter, inches): NA
Exhaust Temperature (°F): Ambient
Exhaust Flow Rate (acfm): NA
Authority for Requirement: DNR PSD Permit #07-A-583-P

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

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

Opacity Monitoring:

The facility shall check the opacity daily during a period when the emission unit on this emission point is 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 8 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 > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 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.

Authority for requirement: 567 IAC 22.108(14)

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-481, SEP-482, SEP-497

Table Dry Mill 64. Associated Equipment.

EP	EU	EU Description	Raw Material /Fuel	Rated Capacity	CE	CE Description
SEP-481	EU-481G	DDGS Feed Elevator 2	DDGS	200 ton/hr	CE-481	Baghouse
SEP-481	EU-481H	DDGS Flat Storage Reclaim L Path Conveyor	DDGS	200 ton/hr	CE-481	Baghouse
SEP-481	EU-481I	DDGS Bulkweigher Feed Elevator 2	DDGS	200 ton/hr	CE-481	Baghouse
SEP-481	EU-481J	DDGS Truck Loading Shuttling Drag Conveyor	DDGS	400 ton/hr	CE-481	Baghouse
SEP-482	EU-482	Dry Feed Storage Silo #1	DDGS	215,400 ft^3	CE-482	Baghouse
SEP-497	EU-497A	Cooled DDGS Belt Conveyor #1	DDGS	175 ton/hr	CE-497	Baghouse
SEP-497	EU-497B	DDGS Incline Drag Conveyor #1	DDGS	175 ton/hr	CE-497	Baghouse
SEP-497	EU-497C	DDGS Flat Storage Piling Drag Conveyor	DDGS	175 ton/hr	CE-497	Baghouse
SEP-497	EU-497D	DDGS Silo #1 Recirculation Drag Conveyor	DDGS	175 ton/hr	CE-497	Baghouse
SEP-497	EU-497E	DDGS Silo #1 Laidig Conveyor	DDGS	400 ton/hr	CE-497	Baghouse
SEP-497	EU-497I	DDGS Bulkweigher Feed Elevator	DDGS	400 ton/hr	CE-497	Baghouse
SEP-497	EU-497J	DDGS Silo Feed Elevator	DDGS	175 ton/hr	CE-497	Baghouse
SEP-497	EU-497K	DDGS Bulkweigh Scale #1	DDGS	400 ton/hr	CE-497	Baghouse
SEP-497	EU-497L	DDGS Bulkweigh Scale #2	DDGS	400 ton/hr	CE-497	Baghouse
SEP-497	EU-497M	DDGS Bulkweigher Discharge Drag Conveyor #1	DDGS	400 ton/hr	CE-497	Baghouse
SEP-497	EU-497N	DDGS Bulkweigher Discharge Drag Conveyor #2	DDGS	400 ton/hr	CE-497	Baghouse
SEP-497	EU-497O	DDGS Silo #1 Laidig Conveyor	DDGS	400 ton/hr	CE-497	Baghouse
SEP-497	EU-497P	DDGS Silo #1 Reclaim Drag Conveyor	DDGS	400 ton/hr	CE-497	Baghouse

Applicable Requirements

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

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

Table Dry Mill 65. Opacity and Particulate Matter Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Authority for Requirement
SEP-481	EU-481G EU-481H EU-481I EU-481J	0%[1]	0.004 gr/dscf[2] 0.686 lb/hr[2]	0.004 gr/dscf[2]	DNR PSD Permit #07-A-584-P2
SEP-482	EU-482	0%[1]	0.004 gr/dscf[2] 0.09 lb/hr[2]	0.004 gr/dscf[2]	DNR PSD Permit #07-A-585-P1
SEP-497	EU-497A through EU-497P	0%[1]	0.004 gr/dscf[2] 0.27 lb/hr[2]	0.004 gr/dscf[2]	DNR PSD Permit #07-A-590-P2

Table Dry Mill 66. Other Emission Limits.

Pollutant	SEP-481	SEP-482	SEP-497
VOC	20 ppm_{vd}[3] and 2.86 lb/hr[4]	20 ppm_{vd}[3] and 0.47 lb/hr[4]	20 ppm_{vd}[4] and 1.15 lb/hr[4]
Acetaldehyde	0.33 lb/hr[2]	0.02 lb/hr[2]	0.13 lb/hr[2]
Acrolein	0.25 lb/hr[2]	0.02 lb/hr[2]	0.10 lb/hr[2]
Formaldehyde	0.24 lb/hr[2]	0.02 lb/hr[2]	0.09 lb/hr[2]
Methanol	0.24 lb/hr[2]	0.02 lb/hr[2]	0.10 lb/hr[2]
Total HAP	0.70 lb/hr[2]	0.04 lb/hr[2]	0.28 lb/hr[2]
Authority for Requirement	DNR PSD Permit #07-A-584-P2	DNR PSD Permit #07-A-585-P1	DNR PSD Permit #07-A-590-P2

Table Dry Mill 67. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-481 SEP-482 SEP-497	All EUs	Opacity	40%	567 IAC 23.3(2)"d"
			20%	LCO 10.7
		PM	0.1 gr/dscf[1]	567 IAC 23.4(7) LCO 10.9(1)"g"

[1] The emission limit is a six (6) minute average.
[2] The emission limit is expressed as the average of three (3) runs.
[3] Concentration standard is expressed as VOC as ethanol.
[4] Pound per hour standard is expressed as the total of individual VOC compounds.

Operational Limits & Requirements

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

Control Device:

A baghouse will be used to reduce particulate matter emissions. 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 devices at all times.

Authority for Requirement: DNR PSD Permit #07-A-584-P2
DNR PSD Permit #07-A-585-P1
DNR PSD Permit #07-A-590-P2

Operating Limits:

A. The owner or operator shall furnish the Department with final detailed plans and specifications for all emission control equipment selected by the owner to meet the emission limits contained in **Tables Dry Mill 65, 66, and 67**. In addition, the facility shall detail all revisions made to the affected emission units. This information shall be submitted to the Department at least 30 days in advance of construction of any control equipment.

B. The baghouse (CE-481, CE-482, CE-497) pressure drop shall be maintained within the operating range specified by the manufacturer.

Authority for Requirement: DNR PSD Permit #07-A-584-P2
DNR PSD Permit #07-A-585-P1
DNR PSD Permit #07-A-590-P2

Operating Condition Monitoring:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall properly operate and maintain equipment to continuously monitor the baghouse pressure drop. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals, or per written facility-specific operation and maintenance plan.

B. The owner or operator shall collect and record the differential pressure, in inches of water column, on a continuous basis. The requirement shall not apply on the days that the baghouse or the equipment that the baghouse controls is not in operation.

C. The owner and operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the control equipment and the monitoring devices.

D. The owner or operator shall maintain a record of the range of baghouse pressure drop observed during the last successful compliance test for reference.

Authority for Requirement: DNR PSD Permit #07-A-584-P2
DNR PSD Permit #07-A-585-P1
DNR PSD Permit #07-A-590-P2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table Dry Mill 68.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (acfm)
SEP-481	6736 / 6609	140	Vertical, unobstructed	32	75	20,000
SEP-482	5244 / 6297	120	Vertical, unobstructed	8	75	1,000
SEP-497	6735 / 6610	53	Vertical, unobstructed	20	70	8,000

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

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

Stack Testing:
The following stack tests shall be performed on SEP-481 only:

Pollutant – Particulate Matter (PM)
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 5 (40 CFR Part 60, Appendix A) and
Method 202 (40 CFR Part 51, Appendix M)
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – Volatile Organic Compounds (VOC)
1st Stack Test to be Completed by – within first two years of permit term
Test Method – Method 25A (40 CFR Part 60, Appendix A)
Authority for Requirement – 567 IAC 22.108(3)

Opacity Monitoring:
The facility shall check the opacity weekly during a period when the emission unit on this emission point is 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 8 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 > 0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than 8 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.

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** ☒[1]

[1] CAM has been waived. DNR PSD Permits #07-A-584-P2 and #07-A-590-P2 have CAM equivalent monitoring and recordkeeping required.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-485

Table Dry Mill 69. Associated Equipment.

EP	EU	EU Description	Raw Material/Fuel	Rated Capacity	CE	CE Description
SEP-485	EU-485	30% Condensed Distillers Solubles Loadout	30% CDS	30,000 gallons	None	None

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Table Dry Mill 70. Emission Limits.

EP	EU	VOC	Authority for Requirement
SEP-485	EU-485	0.0025 tpy, 12-month rolling total	DNR PSD Permit #07-A-588-P

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

Operating Limits:

A. The 30% CDS Loadout shall not load out more than 7,300,000 gallons of 30% condensed distillers solubles per 12-month rolling period.

B. Only 30% condensed distillers solubles may be loaded out from this emission unit.

C. The owner or operator shall fill and operate the 30% CDS Loadout in a manner to minimize VOC emissions.

Authority for Requirement: DNR PSD Permit #07-A-588-P

Operating Condition Monitoring:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Record monthly, the total amount of 30% condensed distillers solubles loaded out through this emission unit each month in gallons. Calculate and record the 12-month rolling totals.

B. The owner or operator shall maintain a record of all actions taken to minimize emissions of VOC from the 30% CDS Loadout.

Authority for Requirement: DNR PSD Permit #07-A-588-P

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 15
Discharge Style: Vertical, unobstructed

Stack Opening, (diameter, inches): 24
Exhaust Temperature (°F): 110
Exhaust Flow Rate (scfm): Displacement
Authority for Requirement: DNR PSD Permit #07-A-588-P

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

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-486

Table Dry Mill 71. Associated Equipment.

EP	EU	EU Description	Raw Material /Fuel	Rated Capacity	CE	CE Description
SEP-486A	EU-486A	Cooling Tower Cell #1	Waste Water	15,000 gpm	CE-486	Drift Eliminators
SEP-486B	EU-486B	Cooling Tower Cell #2	Waste Water	15,000 gpm	CE-486	Drift Eliminators
SEP-486C	EU-486C	Cooling Tower Cell #3	Waste Water	15,000 gpm	CE-486	Drift Eliminators
SEP-486D	EU-486D	Cooling Tower Cell #4	Waste Water	15,000 gpm	CE-486	Drift Eliminators
SEP-486E	EU-486E	Cooling Tower Cell #5	Waste Water	15,000 gpm	CE-486	Drift Eliminators
SEP-486F	EU-486F	Cooling Tower Cell #6	Waste Water	15,000 gpm	CE-486	Drift Eliminators
SEP-486G	EU-486G	Cooling Tower Cell #7	Waste Water	15,000 gpm	CE-486	Drift Eliminators
SEP-486H	EU-486H	Cooling Tower Cell #8	Waste Water	15,000 gpm	CE-486	Drift Eliminators
SEP-486I	EU-486I	Cooling Tower Cell #9	Waste Water	15,000 gpm	CE-486	Drift Eliminators
SEP-486J	EU-486J	Cooling Tower Cell #10	Waste Water	15,000 gpm	CE-486	Drift Eliminators

Applicable Requirements

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

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

Table Dry Mill 72. Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Authority for Requirement
SEP-486A SEP-486B SEP-486C SEP-486D SEP-486E SEP-486F SEP-486G SEP-486H SEP-486I SEP-486J	EU-486A EU-486B EU-486C EU-486D EU-486E EU-486F EU-486G EU-486H EU-486I EU-486J	0%[1,2]	0.0005%[3] 1.69 lb/hr[1,4,5]	0.0005%[3]	DNR PSD Permit #07-A-589-P

Table Dry Mill 73. General Emission Limits.

EP	EU	Pollutant	Emission Limit(s)	Authority for Requirement
SEP-486A	EU-486A	Opacity	40%	567 IAC 23.3(2)"d"
SEP-486B	EU-486B		20%	LCO 10.7
SEP-486C	EU-486C	PM	0.1 gr/dscf[1]	567 IAC 23.4(7) LCO 10.9(1)"g"
SEP-486D	EU-486D			
SEP-486E	EU-486E			
SEP-486F	EU-486F			
SEP-486G	EU-486G			
SEP-486H	EU-486H			
SEP-486I	EU-486I			
SEP-486J	EU-486J			

[1] Standard is expressed as the average of 3 test runs.
[2] Standard is expressed as a six-minute average.
[3] This is the required control efficiency of the drift eliminator in gallons of drift per gallon of cooling water flow.
[4] The limit of PM_{10} emissions is established to limit emissions below levels that predict exceedances of the 24-hour NAAQS, the 24-hour increment, and the annual increment for PM_{10}.
[5] Emission limit represents the sum of all ten cooling tower cells.

<u>Operational Limits & Requirements</u>
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:
Drift eliminators will be used to control particulate matter emissions. 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 devices at all times.

Authority for Requirement: LCPH ATI 5248 / PTO 6299

NSPS and NESHAP Applicability:
This emission unit is subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and Subpart FFFF - Miscellaneous Organic Chemical Manufacturing (40 CFR §63.2430 through 40 CFR §63.2550) and is also subject to the requirements of 567 IAC 23.1(4)"cf". Not all of the general provisions in Subpart A are applicable to sources subject to the requirements of Subpart FFFF. See Table 12 to Subpart FFFF of 40 CFR §63 for a detailed listing of which general provisions are applicable.

This emission unit is not subject to any New Source Performance Standards (NSPS) at this time. There are no applicable subparts.

Authority for Requirement: DNR PSD Permit #07-A-589-P

Operating Limits:

A. The owner or operator shall furnish the Department with the final detailed plans and specifications for all emission control equipment selected by the owner to meet the

emission limits contained in **Tables Dry Mill 72 and 73**. In addition, the facility shall detail all revisions made to the affected emission units. This information shall be submitted to the Department at least 30 days in advance of construction of any control equipment.

B. This emission unit is subject to all applicable operating limits set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40CFR §63.2430 through 40 CFR §63.2550). Specifically, the owner or operator shall comply with all applicable requirements for each heat exchange system according to the provisions in 40 CFR §63.2490.

C. The circulating water in the cooling tower shall not exceed 4,500 parts per million by weight (ppmw) (4,500 mg/L) total dissolved solids (TDS).

D. Chromium based or VOC containing water treatment chemicals shall not be used in this emission unit.

E. The owner or operator shall maintain the cooling tower drift eliminators according to manufacturer's specifications, instructions, and maintenance schedule.

Authority for Requirement: DNR PSD Permit #07-A-589-P

Operating Condition Monitoring:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. This emission unit is subject to all applicable notification, recordkeeping, and reporting requirements, as set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2515, 40 CFR §63.2520, and 40 CFR §63.2525).

B. The owner or operator shall complete an analysis of the TDS of the water in the cooling tower at least once for each calendar month this emission unit is in operation.

C. The owner or operator shall maintain a record of the manufacturer's drift loss guarantee for the cooling tower drift eliminators.

D. The owner or operator shall maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of the cooling tower.

Authority for Requirement: DNR PSD Permit #07-A-589-P

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 59 each (10 cells)
Discharge Style: Vertical, unobstructed
Stack Opening, (diameter, inches): 408 each (10 cells)
Exhaust Temperature (°F): 80 each (10 cells)
Exhaust Flow Rate (scfm): 1,472,222 each (10 cells)
Authority for Requirement: DNR PSD Permit #07-A-589-P

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the

temperature or flow rate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

Opacity Monitoring:

Opacity monitoring is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-495, EU-496

Table Dry Mill 74. Associated Equipment.

EP	EU	EU Description	Raw Material/Fuel	Rated Capacity	CE	CE Description
SEP-495	EU-495	Dry Grind Unleaded Fuel Tank	Unleaded Fuel	2,000 gallons	None	None
SEP-496	EU-496	Dry Grind Diesel Fuel Tank	Diesel Fuel	10,000 gallons	None	None

Applicable Requirements

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

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

Table Dry Mill 75. Emission Limits.

EP	EU	VOC	Authority for Requirement
SEP-495	EU-495	Work Practice Standard[1]	DNR PSD Permit #09-A-387-P
SEP-496	EU-496		DNR PSD Permit #09-A-388-P

[1] Fixed roof tank must be constructed with submerged fill pipe and may only be used to store gasoline (EU-495) or distillate fuel oil (EU-496).

Operational Limits & Requirements

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

Operating Limits:

A. Fixed roof tank must be constructed with submerged fill pipe and may only be used to store distillate fuel oil.

Authority for Requirement: DNR PSD Permit #09-A-388-P

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table Dry Mill 76.

EP	LCPH ATI / PTO Numbers	Stack Characteristics				
		Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flow Rate (scfm)
SEP-495	5768 / 6300	15	Vertical, unobstructed	2	Ambient	Breathing losses
SEP-496	5769 / 6301	15	Vertical, unobstructed	2	Ambient	Breathing losses

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flow rate above are different than the values stated, the owner or operator shall

submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-498

Table Dry Mill 77. Associated Equipment.

EP	EU	EU Description	Raw Material /Fuel	Rated Capacity	CE	CE Description
SEP-498	EU-498	Dry Mill Haul Roads	Tank Truck	Not Applicable	None	None

Applicable Requirements

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

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

Table Dry Mill 78. Emission Limits.

EP	EU	Opacity	PM_{10}	Particulate Matter	Authority for Requirement
SEP-498	EU-498	No Visible Emissions[1]	Work Practice Standard[2]	Work Practice Standard[2]	DNR PSD Permit #07-A-591-P1

[1] No visible emissions shall be observed beyond the lot line of the property.
[2] BACT limits for PM and PM_{10} are expressed in the form of work practice standards, as opposed to an emission limit. See 'Operating Limits' for work practice requirements.

Operating Limits:

A. All the haul roads at the Dry Mill shall be paved.

B. All spills on the haul road surface shall be cleaned up as soon as possible after the spill occurs.

C. Fugitive emissions of paved haul roads shall be controlled by either completing daily water flushing followed by vacuum sweeping or by obtaining a vacuum sweeper that can meet a minimum of 80% overall control of emissions and completing daily sweeping.

1) Sweeping and watering need not occur on any day that the haul road is not in use.

2) Sweeping and watering need not occur when a rain gauge located at the facility indicates that at least 0.2 inches of precipitation (water equivalent) has occurred within the preceding 24-hour time period.

3) Sweeping and watering will not be required on calendar days where the daily high temperature is below 35 degrees Fahrenheit.

4) If a facility has applied salt or sand for work or driver safety, the facility is not required to sweep or wash until the road has returned to driving conditions that no longer require the use of salt or sand.

D. The haul road surface silt loading shall not exceed 0.5 g/m^2.

Authority for Requirement: DNR PSD Permit #07-A-591-P1

Operating Condition Monitoring:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Record the frequency of cleaning performed on the haul roads. The facility shall keep a written record of any deviations from Condition C of Operating Limits above due to either suspended use of the haul road or weather conditions.

B. Record the type of cleaning (i.e., vacuum sweeping, washing, etc.) performed on the haul roads for each cleaning event.

Authority for Requirement: DNR PSD Permit #07-A-591-P1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): NA
Discharge Style: NA
Stack Opening, (diameter, inches): NA
Exhaust Temperature (°F): Ambient
Exhaust Flow Rate (acfm): NA
Authority for Requirement: DNR PSD Permit #07-A-591-P1

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

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

Stack Testing:
Stack testing is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: SEP-499

Table Dry Mill 79. Associated Equipment.

EP	EU	EU Description	Raw Material/Fuel	Rated Capacity	CE	CE Description
SEP-499	EU-499	Dry Mill VOC Emissions from Equipment Leaks	Equipment Leaks	Not Applicable	None	None

Applicable Requirements

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

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

Table Dry Mill 80. Emission Limits.

EP	EU	VOC	Authority for Requirement
SEP-499	EU-499	47.67 tpy[1]	DNR PSD Permit #07-A-592-P

[1] Standard is expressed as a 12-month rolling total.

Operational Limits & Requirements

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

Control Device:

A Leak Detection and Repair (LDAR) monitoring system shall be used to reduce volatile organic compound emissions. 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 devices at all times.

Authority for Requirement: LCPH ATI 5251 / PTO 6303

NSPS and NESHAP Applicability:

The ADM Dry Mill facility is subject to Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15) of the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart FFFF - Miscellaneous Organic Chemical Manufacturing (40 CFR §63.2430 through 40 CFR §63.2550), and to the requirements of 567 IAC 23.1(4)"cf". Not all of the general provisions in Subpart A are applicable to sources subject to the requirements of Subpart FFFF. See Table 12 to Subpart FFFF of 40 CFR §63 for a detailed listing of which general provisions are applicable.

The ADM Dry Mill facility is subject to Subpart A - General Provisions (40 CFR §60.1 through 40 CFR §60.19) of the New Source Performance Standards (NSPS), Subpart VV - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry (40 CFR §60.480 through 40 CFR §60.489), and to the requirements of 567 IAC 23.1(2)"nn".

After the compliance date specified in 40 CFR §63.2445, compliance with NSPS Subpart VV may be demonstrated by complying only with the requirements in NESHAP Subpart FFFF. If

this method of compliance is used, all total organic compounds must be considered, minus methane and ethane, in such equipment for purposes of compliance with NESHAP Subpart FFFF, as if they were organic HAP.

Authority for Requirement: DNR PSD Permit #07-A-592-P

Operating Limits:

A. The component count shall be documented as to the number and types of components used. Components include, but are not limited to, valves, pumps, compressor seals, flanges, etc. Equipment subject to the regulations noted in the NSPS and NESHAP Applicability above shall be identified. Identification of the equipment does not require physical tagging of the equipment. For example, the equipment may be identified on a plant site plan, in log entries, by designation of process unit, or affected facility per NESHAP Subpart UU (40 CFR §63.1019 through 40 CFR §63.1039) and Consolidated Federal Air Rule Subpart F (40 CFR §65.100 through 40 CFR §65.139).

B. The owner or operator shall follow the standards of NSPS Subpart VV (40 CFR §60.480 through 40 CFR §60.489) for the purposes of BACT.

C. The components that are in organic HAP service, as defined in 40 CFR §63.2550, and that are part of the MCPU are subject to all applicable operating limits set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2430 through 40 CFR §63.2550). Specifically, the owner or operator shall comply with all applicable requirements for equipment leaks, according to the provisions in 40 CFR §63.2480. As specified in 40 CFR §63.2480, the facility must comply with the requirements of NESHAP Subpart UU (40 CFR §63.1019 through 40 CFR §63.1039) or Consolidated Federal Air Rule Subpart F (40 CFR §65.100 through 40 CFR §65.139).

Authority for Requirement: DNR PSD Permit #07-A-592-P

Operating Condition Monitoring:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. Calculate and record the VOC emissions based on the documented component count. Emission factors shall be based on EPA document 453/R-95-017 titled 'Protocol for Equipment Leak Emission Estimates.' The facility will use the following methodology to calculate VOC emissions.

   1) Determine the component count for the ADM ethanol Dry Mill. This count shall be updated with each modification to that section of the facility.

   2) On a monthly basis, take a minimum of five samples of liquid from five different locations within each section of the plant (i.e., fermentation, distillation, storage tanks, etc.) and determine the organic content of each sample. If 100% organic content is used, monthly sampling is not required. The average organic content of the streams in each section shall be determined and used in the calculations of emissions. If, after one year of sampling, the average of each month's samples show less than a 2% variation over the twelve months, the average of the 60 samples may be used in future calculations and sampling may be ended.

i. VOC content sampling shall be completed following the procedures in 40 CFR §60.485(d).

3) From each month's leak detection tracking information, determine the following for each component type:

i. The fraction of sources that were repaired the previous month that were found to be leaking this month.

ii. The fraction of sources that were successfully repaired after being found to be leaking in the previous month's monitoring.

iii. The fraction of sources that were found to not be leaking during the previous month's monitoring, which were found to be leaking during this month's monitoring.

4) Using the information collected in Condition A.3 above, determine the control efficiency of the leak detection and repair program, as outlined in EPA's document 453/R-95-017, titled 'Protocol for Equipment Leak Emission Estimates' (pages 5-54 through 5-57). Control efficiencies listed in Table 5.2 (page 5-9) may be assumed for those components listed. If these control efficiencies are assumed, the information required by A.3 above need not be recorded for that component type.

5) Using the information collected above, determine the VOC emission over the previous month from each section of the facility using the calculation methods outlined in EPA's document 453/R-95-017 titled 'Protocol for Equipment Leak Emission Estimates' (page 2-11).

B. At the end of each month, record the total VOC emissions over the previous month from the facility by adding the emissions totals for each section of the Dry Mill, as determined in Condition A above. Calculate and record 12-month rolling totals.

C. The owner or operator shall follow the notification, recordkeeping, and reporting requirements of NSPS Subpart VV (40 CFR §60.486 and 40 CFR §60.487) for purposes of BACT.

D. This emission unit is subject to all applicable notification, recordkeeping, and reporting requirements, as set forth in NESHAP Subparts A (40 CFR §63.1 through 40 CFR §63.15) and FFFF (40 CFR §63.2515, 40 CFR §63.2520, and 40 CFR §63.2525).

Authority for Requirement: DNR PSD Permit #07-A-592-P

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): NA
Discharge Style: NA
Stack Opening, (diameter, inches): NA
Exhaust Temperature (°F): Ambient
Exhaust Flow Rate (acfm): NA
Authority for Requirement: DNR PSD Permit #07-A-592-P1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the

temperature or flow rate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Stack testing is not required at this time.

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

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22 and Linn County Code of Ordinance (LCO) Chapter 10, paragraph 10.4.

G1. Duty to Comply

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

G2. Permit Expiration

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

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness.

All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification
By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and Linn County Public Health Air Quality Division. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report
By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and Linn County Public Health Air Quality Division. *567 IAC 22.108 (5)*

G6. Annual Fee
1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
    a. Form 1.0 "Facility Identification";
    b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
    c. Form 5.0 "Title V annual emissions summary/fee"; and
    d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
    a. Form 1.0 "Facility Identification";
    b. Form 5.0 "Title V annual emissions summary/fee";
    c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1,

forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

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

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

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

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b" and LCO 10.22*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e" and LCO 10.18 and 10.19*

G9. General Maintenance and Repair Duties

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

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1) and LCO 10.14(2)*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
    a. The date, place and time of sampling or measurements

b. The date the analyses were performed.
c. The company or entity that performed the analyses.
d. The analytical techniques or methods used.
e. The results of such analyses; and
f. The operating conditions as existing at the time of sampling or measurement.
g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

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

G11. Evidence used in establishing that a violation has or is occurring.
Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
    a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
    b. Compliance test methods specified in 567 Chapter 25; or
    c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
    a. Any monitoring or testing methods provided in these rules; or
    b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2) and LCO 10.16(1)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification
If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release
The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the

environment. A verbal report shall be made to the department at (515) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.
2. Excess Emissions Reporting
    a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:
        i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
        ii. The estimated quantity of the excess emission.

iii. The time and expected duration of the excess emission.
iv. The cause of the excess emission.
v. The steps being taken to remedy the excess emission.
vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:
   i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
   ii. The estimated quantity of the excess emission.
   iii. The time and duration of the excess emission.
   iv. The cause of the excess emission.
   v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
   vi. The steps that were taken to limit the excess emission.
   vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4) and LCO 10.14*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:
   a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
   b. The facility at the time was being properly operated;
   c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
   d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified

in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

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

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4) This notification must be made to Linn County Air Quality Division, in lieu of the Department, upon adoption of the NSPS or NESHAP into Chapter 10.*

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

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

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.
    a. An administrative permit amendment is a permit revision that does any of the following:
        i. Correct typographical errors
        ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
        iii. Require more frequent monitoring or reporting by the permittee; or
        iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
    b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
    c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.
2. Minor Title V Permit Modification.
    a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
        i. Do not violate any applicable requirement;
        ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
        iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
        iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid

classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

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

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

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;

ii. The permittee's suggested draft permit;

iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and

iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. *567 IAC 22.1(1) and LCO 10.5*

G20. Asbestos
The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations (*567 IAC 23.1(3)"a");* training fires and controlled burning of a demolished building *(567 IAC 23.2).*

G21. Open Burning
The permittee is prohibited from conducting open burning, except as may be allowed by LCO 10.10.

G22. Acid Rain (Title IV) Emissions Allowances
The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedances of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements
1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
    a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
    b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
    c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
    d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
    a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
    b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
    c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
    d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
    e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
    a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
    b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
    c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
    a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
    b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
    c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a

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

   d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
   e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*
5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

G25. Permit Shield

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

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8) and LCO 10.27*

G27. Property Rights
The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability
This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of 567 IAC 22.111(1). *567 IAC 22.111 (1)"d"*

G29. Disclaimer
No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification
The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.
Stack test notifications, reports and correspondence shall be sent to:

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

Within Linn County, stack test notifications, reports and correspondence shall also be directed to the supervisor of the county air pollution program.
567 IAC 25.1(7)"a", 567 IAC 25.1(9) and LCO 10.17

G31. Prevention of Air Pollution Emergency Episodes
The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.
567 IAC 26.1(1)

G32. Contacts List
The current address and phone number for reports and notifications to the EPA administrator is:

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

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

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

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

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

Appendix A: Agency O&M Plans

ADM Cedar Rapids Plant-Wide Packed Bed/General Wet Scrubber Agency Operation & Maintenance Plan

Monitoring Guidelines
ADM makes a commitment to take timely corrective action during periods of excursions where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with Applicable Requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

Applicable Emission Points

Emission Point ID #	Control Equip ID #	Description
055	CE-055	Packed Bed Scrubber

Monitoring Methods & Corrective Actions

General

- Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.
- If flow rates or pressure drop levels are occurring outside the normal operating range, investigative/corrective action will start within eight (8) hours of findings.

Weekly

- Check and document the scrubbing liquid circulating and make-up flow as appropriate and pressure drop across the scrubber. If the flow or pressure drop falls out of the recent normal operating range, based upon observed averages and ranges over the past year of operations (or outside a specific permit limit range), corrective action will be started within eight (8) hours of findings to return the operations to normal. The recent normal operating range shall also be documented on each record used for documenting the readings. Changes to these operating ranges shall be documented to include the reason and justification for the change. Conduct observations of the stack and areas adjacent to the stack to determine if excess droplet re-entrainment is occurring from an improperly operating mist eliminator. The signs of droplet re-entrainment may include fallout of solid-containing droplets, discoloration of the stack and adjacent surfaces, or a mud lip around the stack. If excess droplet re-entrainment is occurring, the appropriate measures for remediation will be started with eight (8) hours of findings.

- Maintain a written or electronic record of the inspection and any action resulting from the inspection.

Quarterly

- Conduct a walk-around inspection of the entire system to search for leaks. If leaks in the system are detected, the appropriate measures for remediation will be started within eight (8) hours of findings.
- Maintain a written or electronic record of the inspection and any action resulting from the inspection.

Annually (contingent on accessibility during shutdown period)

- Conduct an internal inspection of the scrubber to search as appropriate for signs of erosion, corrosion, or solids deposits, solids accumulation in mist eliminators, and plugged or eroded spray nozzles. If any of these conditions exist, the appropriate measures for remediation will be started within eight (8) hours of findings.
- Maintain a written or electronic record of the inspection and any action resulting from the inspection.

Recordkeeping

- Maintain a written or electronic record of all inspections and any action resulting from the inspections.
- The facility will keep maintenance and inspection records for five (5) years and will be available upon request.

Quality Control

- The equipment will be operated and maintained according to typical food industry standards and/or as outlined in the above monitoring requirements.

Appendix B: CAM Plans

Compliance Assurance Monitoring Plans for ADM Corn Processing Facility located in Cedar Rapids, Iowa

I. Background

A. Emissions Unit

Description: See CAM Table 1 for full listing
Identification: See CAM Table 1 for full listing
Facility: ADM Corn Processing
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

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.

D. QIP (Quality Improvement Plan) Threshold (Optional)

The QIP threshold is six excursions in a six-month reporting period for all emission points and associated control equipment listed in CAM Table 1.

E. Performance Criteria

Data representativeness: Deviations from the normal operating range(s) of the monitoring indicators listed in CAM Table 1 could indicate in the following: decreases in performance efficiency, increases in emissions, and/or the need for maintenance or repair to the associated equipment.

Verification of operational status:	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 monitoring devices shall be calibrated, operated, and maintained according to their manufacturers' specifications.
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. Note that CAM monitoring also meets permit monitoring requirements. For example, there is no need to completely two weekly opacity monitoring observations; one observation shall count for the purpose of meeting permit and CAM requirements.
Data collection procedure:	Data shall be collected from sources representative of the emissions of each operating emission unit. Monitoring devices shall be located appropriately to provide representative results and, wherever possible, be readily available for inspection by federal, state, and local air pollution regulatory agencies and/or their representatives.
Averaging period:	In all cases, the averaging periods required by this CAM plan are identical to those identified in the emission point-specific entries of the Title V operating permit.
Corrective Action:	In all cases, corrective action shall be taken as soon as possible, but no later than eight (8) hours from the observation of the excursion.

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

EP	EU	CE	Pollutant	Emission Limit(s)	Monitoring Indicator	Indicator Level	Monitoring Frequency	Regulation No.
008	008	008 (Baghouse)	PM	6.05 lb/hr 0.01 gr/dscf 0.1 gr/dscf	ΔP	≥ 1 and ≤ 8 in. W.C.	Daily	LCPH ATI 6051 / PTO 6148R1
					Opacity Monitoring	No Visible Emissions	Weekly	
			PM_{10}	14.4 tpy 6.05 lb/hr	ΔP	≥ 1 and ≤ 8 in. W.C.	Daily	
					Opacity Monitoring	No Visible Emissions	Weekly	
	008B, 008C, 010A, 010B, 023, 040, 048, 049, 086A, 086B	010, 023, 040, 048, 049, 086 (Baghouses)	PM	6.05 lb/hr 0.01 gr/dscf 0.1 gr/dscf	ΔP	≥ 0.2 and ≤ 6 in. W.C.	Daily	
					Opacity Monitoring	No Visible Emissions	Weekly	
			PM_{10}	14.4 tpy 6.05 lb/hr	ΔP	≥ 0.2 and ≤ 6 in. W.C.	Daily	
					Opacity Monitoring	No Visible Emissions	Weekly	
034	034A 034B	034B (Zero Hearth)	CO	11.34 lb/hr	Average Temp.	≥ 1,440 °F	Daily	LCPH ATI 4664 / PTO 5082
061	061	061 (Baghouse)	PM	0.1 gr/dscf 0.09 lb/hr	ΔP	≥ 0.25 and ≤ 7 in. W.C.	Daily	LCPH ATI 6210 / PTO 6051
					Opacity Monitoring	No Visible Emissions	Weekly	
062	062	062 (Baghouse)	PM	0.1 gr/dscf 0.09 lb/hr	ΔP	≥ 0.25 and ≤ 7 in. W.C.	Daily	LCPH ATI 6211 / PTO 6052
					Opacity Monitoring	No Visible Emissions	Weekly	
063	063	063 (Baghouse)	PM	0.1 gr/dscf 0.09 lb/hr	ΔP	≥ 0.25 and ≤ 7 in. W.C.	Daily	LCPH ATI 6212 / PTO 6053
					Opacity Monitoring	No Visible Emissions	Weekly	
064	064	064 (Baghouse)	PM	0.1 gr/dscf 0.09 lb/hr	ΔP	≥ 0.25 and ≤ 7 in. W.C.	Daily	LCPH ATI 6213 / PTO 6054
					Opacity Monitoring	No Visible Emissions	Weekly	
114	114A 114B	114B (Zero Hearth)	CO	11.34 lb/hr	Average Temp.	≥ 1,440 °F	Daily	LCPH ATI 4665 / PTO 5083
210	046 210	210 (Scrubber[5])	SO_2	6.11 lb/hr 500 ppm_v	Flow Rate	≥ 240 gpm	Daily	LCPH ATI 5829 / PTO 6337
					ΔP	≥ 0.5 and ≤ 12 in W.C.		

EP	EU	CE	Pollutant	Emission Limit(s)	Monitoring Indicator	Indicator Level	Monitoring Frequency	Regulation No.
271	271	271 (Baghouse)	PM	0.93 lb/hr 0.1 gr/scf	ΔP	≥ 0.5 and ≤ 8.0 in W.C.	Daily	LCPH ATI 6188 / PTO 6529
					Opacity Monitoring	No Visible Emissions	Weekly	
403	403A – 403T	403 (Baghouses)	PM	0.004 gr/dscf 0.1 gr/dscf	ΔP	≥ 0.3 and ≤ 5.0 in W.C.	Daily	Iowa DNR PSD Permit #07-A-535-P1 LCPH ATI 6458 / PTO 6313
					Opacity Monitoring	No Visible Emissions	Weekly	
501	501A, 501AN, 501B, 501BN	501A, 501B (Baghouses)	PM_{10}	0.03 lb/MMBtu	ΔP	≥ 1 and ≤ 12 in. W.C.	Daily	Iowa DNR PSD Permits #86-A-090-P1 #86-A-091-P1 LCPH ATI 6131 / PTO 6267
502	502A, 502AN, 502B, 502BN	502A, 502B (Baghouses)	PM_{10}	0.03 lb/MMBtu	ΔP	≥ 1 and ≤ 12 in. W.C.	Daily	Iowa DNR PSD Permits #90-A-083-P1 #93-A-324-S1 LCPH ATI 6132 / PTO 6268
503	503	503 (Bunker Dust Collector)	PM_{10}	2.41 lb/hr 14.4 tpy	ΔP	≥ 0.5 and ≤ 8.0 in. W.C.	Daily	LCPH ATI 6163 / PTO 6235
					Opacity Monitoring	No Visible Emissions	Weekly	
505	505	505 (Baghouse)	PM	0.1 gr/dscf 2.18 lb/hr	ΔP	≥ 0.5 and ≤ 8 in. W.C.	Daily	LCPH ATI 5802 / PTO 5971
					Opacity Monitoring	No Visible Emissions	Weekly	
514	514	514 (Baghouse)	PM_{10}	1.6 lb/hr 14.4 tpy	ΔP	≥ 0.5 and ≤ 8 in. W.C.	Daily	LCPH ATI 6108 / PTO 6236
					Opacity Monitoring	No Visible Emissions	Weekly	
515	515	514 (Baghouse)	PM_{10}	1.6 lb/hr 14.4 tpy	ΔP	≥ 0.5 and ≤ 8 in. W.C.	Daily	LCPH ATI 6120 / PTO 6237
					Opacity Monitoring	No Visible Emissions	Weekly	
530	530A, 530AN	530A (Baghouse)	PM_{10}	0.03 lb/MMBtu	ΔP	≥ 1 and ≤ 12 in. W.C.	Daily	Iowa DNR PSD Permit #98-A-507-P2 LCPH ATI 5096 / PTO 5045
532	532	532 (Baghouse)	PM	0.01 gr/dscf 0.1 gr/dscf	ΔP	≥ 0.5 and ≤ 8 in. W.C.	Daily	Iowa DNR PSD Permit #98-A-509-PS1 LCPH ATI 3735 / PTO 4739
					Opacity Monitoring	No Visible Emissions	Weekly	
533	533	533 (Baghouse)	PM	0.01 gr/dscf 0.1 gr/dscf	ΔP	≥ 0.5 and ≤ 8 in. W.C.	Daily	Iowa DNR PSD Permit #98-A-510-P LCPH ATI 3734 / PTO 4738
					Opacity Monitoring	No Visible Emissions	Weekly	

EP	EU	CE	Pollutant	Emission Limit(s)	Monitoring Indicator	Indicator Level	Monitoring Frequency	Regulation No.
535	535	535 (Baghouse)	PM	0.01 gr/dscf 0.1 gr/dscf	ΔP	≥ 0.5 and ≤ 8 in. W.C.	Daily	Iowa DNR PSD Permit #98-A-512-PS1 LCPH ATI 3732 / PTO 4736
					Opacity Monitoring	No Visible Emissions	Weekly	
536	536	536 (Baghouse)	PM	0.01 gr/dscf 0.1 gr/dscf	ΔP	≥ 0.5 and ≤ 8 in. W.C.	Daily	Iowa DNR PSD Permit #98-A-513-PS1 LCPH ATI 3731 / PTO 4735
					Opacity Monitoring	No Visible Emissions	Weekly	

Notes:
[1] Horizontal Cross-Flow Scrubber
[2] Entoleter Scrubber
[3] Packed Tower Scrubber
[4] Ducon Scrubber
[5] Packed Bed Scrubber
[6] Dry Combustion Chamber

Appendix C

Applicable Federal Requirements

New Source Performance Standards:

40 CFR Part 60 Subpart A – *General Provisions*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.a&rgn=div6

40 CFR Part 60 Subpart Db – *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=bdb4c693e33832a619f89d2ab746b580&mc=true&node=sp40.7.60.d_0b&rgn=div6

40 CFR Part 60 Subpart Dc – *Standards of Performance for Small Industrial-Commerical-Institutional Steam Generating Units*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.d_0c&rgn=div6

40 CFR Part 60 Subpart Kb – *Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.k_0b&rgn=div6

40 CFR Part 60 Subpart Y – *Standards of Performance for Coal Preparation and Process Plants*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.y&rgn=div6

40 CFR Part 60 Subpart DD – *Standards of Performance for Grain Elevators*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.dd&rgn=div6

40 CFR Part 60 Subpart VV – *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced after January 5, 1981, and on or before November 7, 2006*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.vv&rgn=div6

40 CFR Part 60 Subpart IIII – *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.iiii&rgn=div6

40 CFR Part 60 Subpart KKKK – *Standards of Performance for Stationary Combustion Turbines*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3a83c00b45fa1280931cbdb920e6b7a7&mc=true&node=sp40.7.60.kkkk&rgn=div6

Note: A list of all 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 below:
https://www.epa.gov/caa-permitting/new-source-performance-standards-region-7

National Emissions Standards for Hazardous Air Pollutants:

40 CFR Part 63 Subpart A – *General Provisions*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad53f9fe41048f44d5bead0915c&mc=true&tpl=/ecfrbrowse/Title40/40cfr63_main_02.tpl

40 CFR Part 63 Subpart Q – *National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad53f9fe41048f44d5bead0915c&mc=true&node=sp40.10.63.q&rgn=div6

40 CFR Part 63 Subpart UU – *National Emission Standards for Equipment Leaks – Control Level 2 Standards*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad53f9fe41048f44d5bead0915c&mc=true&node=sp40.11.63.uu&rgn=div6

40 CFR Part 63 Subpart FFFF – *National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad53f9fe41048f44d5bead0915c&mc=true&node=sp40.13.63.ffff&rgn=div6

40 CFR Part 63 Subpart YYYY – *National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad53f9fe41048f44d5bead0915c&mc=true&node=sp40.13.63.yyyy&rgn=div6

40 CFR Part 63 Subpart ZZZZ – *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad53f9fe41048f44d5bead0915c&mc=true&node=sp40.14.63.zzzz&rgn=div6

40 CFR Part 63 Subpart DDDDD – *National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters*
A link to the current final rule can be found below:
http://www.ecfr.gov/cgi-bin/text-idx?SID=3e18dad53f9fe41048f44d5bead0915c&mc=true&node=sp40.14.63.ddddd&rgn=div6

Note: A list of all promulgated MACT rules, EPA Region 7 staff contact information (for questions pertaining to the rule), compliance assistance links, and a link to each NESHAP can be found below:
https://www.epa.gov/caa-permitting/maximum-achievable-control-technology-standards-region-7