

## AIR POLLUTION CONTROL PERMIT TO CONSTRUCT

<b>Permittee Name:</b> Archer Daniels Midland Company (ADM)	<b>Permit Number:</b> ACP-18337 v1.0
<b>Permittee Address:</b> P.O. Box 1470 Decatur, IL 62525	<b>Permit Description:</b> True Minor Current Major HAP Source Current Title V
<b>Source Name &amp; Location:</b> Enderlin Facility 5525 - 136 <sup>th</sup> Avenue SE Enderlin, ND 58027 Ransom County	<b>Source Type:</b> Seed; Oil (Soybean and Other Oilseed Processing)
<b>Date of Application:</b>	N/A

Pursuant to Chapter 23.1-06 of the North Dakota Century Code, the North Dakota Air Pollution Control Rules (North Dakota Administrative Code [NDAC] 33.1-15), and in reliance on statements and representations heretofore made by the permittee (i.e., owner) designated above, a Permit to Construct (PTC, also referred to as 'permit') is hereby issued authorizing such permittee to construct and initially operate the source unit(s) listed in Condition 1 at the location designated above. The source may be operated under this PTC until a Permit to Operate (PTO) is issued. This PTC is subject to all applicable rules and orders now or hereafter in effect of the North Dakota Department of Environmental Quality (Department), state and federal regulations, and to any conditions specified below:

Date: \_\_\_\_\_

\_\_\_\_\_  
 James L. Semerad  
 Director  
 Division of Air Quality

**1. Project and Facility Emission Units:**

ACP-18337 v1.0 AQEA Memo details the Project description and facility wide emission profile and regulation analysis associated with this permit.

Table 1-1 lists the emission units incorporated with this permit.

Table 1-2 lists the emission units that are being removed from the facility.

Table 1-3 lists the facility processing and fuel burning equipment.

Emission Unit Description <sup>A</sup>	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
<b>Processing Equipment</b>			
Dehuller system	5	5	Cyclone
Dehuller system	6	6	Cyclone
Elevators & conveyors	8	8	Cyclone
Meal/hull processing	11	11	Cyclones (2)
Rotary seed conditioner	56	56	Cyclone
Expeller aspiration	58	58	Cyclones (2)
Desolventizer-toaster-dryer-cooler (DTDC)	61	61	Cyclones (2)
Whole seed conditioner	63	63	Cyclone
Main vent (hexane extraction)	67	67	Condensation/Mineral Oil Absorption
Bean receiving/storage <sup>B</sup> /handling	70	70	Bagfilter
Bean/bean powder conveying/storage <sup>C</sup> /packaging	77		
Isolate valve packer receiver	PI-22		
Isolate super sacker receiver	PI-23		
Isolate valve packer aspiration	PI-24		
Pea hull loadout aspiration	PI-25		
Raw legume transport	PI-03	PI-03	Bagfilter
Raw legume screening	PI-04		
Raw legume split conditioner	PI-05		
Legume split flacking	PI-06		
Hull separation aspiration	PI-07A		
Hulls grinder blowline	PI-07B		
WWTP anaerobic reactor	FR-01 <sup>D</sup>	FR-01	Caustic Scrubber & Biogas Flare

<b>Emission Unit Description <sup>A</sup></b>	<b>Emission Unit (EU)</b>	<b>Emission Point (EP)</b>	<b>Air Pollution Control Equipment</b>
Biogas flare	FR-02		None
<b>Fuel Burning Equipment</b>			
JTA boiler rated at 280 x 106 Btu/hr (nominal) and fired on hulls, biomass, railroad ties and clean wood (constructed 1998, NSPS Db; NESHAP/MACT DDDDD)	17	17	Electrostatic Precipitator (ESP)
Newpoint NUK natural gas-fired (No. 2 fuel oil backup) boiler rated at 15 x 106 Btu/hr (constructed 2010, NSPS Dc; NESHAP/MACT DDDDD)	62	62	None
Trane Murray natural gas/LPG-fired (No. 2 fuel oil backup) boiler rated at 180 x 106 Btu/hr (nominal) (constructed 1977, NESHAP/MACT DDDDD)	64	64	None
1,818 bhp Caterpillar diesel engine driven emergency generator (manuf. 1997, NESHAP/MACT ZZZZ)	69	69	None
Starch flash dryer equipped with a natural gas-fired burner rated at 30 x 106 Btu/hr	PI-09	PI-09	Scrubber
Isolate spray dryer system equipped with a natural gas-fired burner rated at 32 x 106 Btu/hr	PI-16	PI-16a	Bagfilter
		PI-16b	Bagfilter

<sup>A</sup> All emission unit ratings are considered nominal ratings.

<sup>B</sup> Includes eight tanks.

<sup>C</sup> Includes four tanks.

<sup>D</sup> Emissions from this unit are first routed through a wet scrubber for the control of sulfur compounds and then combusted at the flare (EP FR-01).

Table 1-4 lists insignificant and fugitive activities at the facility.

*Table 1-1: Emission Units Incorporated with this Permit*

<b>Emission Unit Description</b>	<b>Emission Unit (EU)</b>	<b>Emission Point (EP)</b>	<b>Air Pollution Control Equipment</b>
Meal/hull processing	11	11	Cyclones (2) <sup>A</sup>

<sup>A</sup> Two new cyclones and an upgraded fan (100 hp) were installed in May 2025 replacing two old cyclones and one 75 hp fan.

Table 1-2: Emission Units Removed from the Facility

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Bean dryer	71	71	Cyclone

Table 1-3: Facility Processing and Fuel Burning Equipment

Emission Unit Description <sup>A</sup>	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
<b>Processing Equipment</b>			
Dehuller system	5	5	Cyclone
Dehuller system	6	6	Cyclone
Elevators & conveyors	8	8	Cyclone
Meal/hull processing	11	11	Cyclones (2)
Rotary seed conditioner	56	56	Cyclone
Expeller aspiration	58	58	Cyclones (2)
Desolventizer-toaster-dryer-cooler (DTDC)	61	61	Cyclones (2)
Whole seed conditioner	63	63	Cyclone
Main vent (hexane extraction)	67	67	Condensation/Mineral Oil Absorption
Bean receiving/storage <sup>B</sup> /handling	70	70	Bagfilter
Bean/bean powder conveying/storage <sup>C</sup> /packaging	77		
Isolate valve packer receiver	PI-22		
Isolate super sacker receiver	PI-23		
Isolate valve packer aspiration	PI-24		
Pea hull loadout aspiration	PI-25		
Raw legume transport	PI-03	PI-03	Bagfilter
Raw legume screening	PI-04		
Raw legume split conditioner	PI-05		
Legume split flacking	PI-06		
Hull separation aspiration	PI-07A		
Hulls grinder blowline	PI-07B		
WWTP anaerobic reactor	FR-01 <sup>D</sup>	FR-01	Caustic Scrubber & Biogas Flare
Biogas flare	FR-02		None
<b>Fuel Burning Equipment</b>			

<b>Emission Unit Description <sup>A</sup></b>	<b>Emission Unit (EU)</b>	<b>Emission Point (EP)</b>	<b>Air Pollution Control Equipment</b>
JTA boiler rated at 280 x 10 <sup>6</sup> Btu/hr (nominal) and fired on hulls, biomass, railroad ties and clean wood (constructed 1998, NSPS Db; NESHAP/MACT DDDDD)	17	17	Electrostatic Precipitator (ESP)
Newpoint NUK natural gas-fired (No. 2 fuel oil backup) boiler rated at 15 x 10 <sup>6</sup> Btu/hr (constructed 2010, NSPS Dc; NESHAP/MACT DDDDD)	62	62	None
Trane Murray natural gas/LPG-fired (No. 2 fuel oil backup) boiler rated at 180 x 10 <sup>6</sup> Btu/hr (nominal) (constructed 1977, NESHAP/MACT DDDDD)	64	64	None
1,818 bhp Caterpillar diesel engine driven emergency generator (manuf. 1997, NESHAP/MACT ZZZZ)	69	69	None
Starch flash dryer equipped with a natural gas-fired burner rated at 30 x 10 <sup>6</sup> Btu/hr	PI-09	PI-09	Scrubber
Isolate spray dryer system equipped with a natural gas-fired burner rated at 32 x 10 <sup>6</sup> Btu/hr	PI-16	PI-16a	Bagfilter
		PI-16b	Bagfilter

<sup>A</sup> All emission unit ratings are considered nominal ratings.

<sup>B</sup> Includes eight tanks.

<sup>C</sup> Includes four tanks.

<sup>D</sup> Emissions from this unit are first routed through a wet scrubber for the control of sulfur compounds and then combusted at the flare (EP FR-01).

*Table 1-4: Insignificant/Fugitive Activities at the Facility*

<b>Emission Unit Description <sup>A</sup></b>	<b>Emission Unit (EU)</b>	<b>Emission Point (EP)</b>	<b>Air Pollution Control Equipment</b>
<b>Processing Equipment</b>			
Hull storage bin vents	7	7	Bagfilter
Hammermills	12	12	Bagfilter
A dryer	15	15	None
West building vents (NSPS DD)	22	22	None
Dry seed tank vents (10) (NSPS DD)	23	23	Bagfilters (10)
Meal storage tanks	25	25	Bagfilter

<b>Emission Unit Description <sup>A</sup></b>	<b>Emission Unit (EU)</b>	<b>Emission Point (EP)</b>	<b>Air Pollution Control Equipment</b>
FM tank-transferring	26	26	Bagfilter
Day tank	29	29	Bagfilter
Fly ash and bottom ash loadout	30	30	Bagfilter
Seed receiving (NSPS DD)	51	51	Bagfilter
Whole seed truck loading spout	51a	Fug1	None
Whole seed rail loading spout	51b	Fug 2	None
Seed cleaning (NSPS DD)	52	52	Bagfilter
Seed storage (NSPS DD)	53 <sup>B</sup>	53	Bagfilter
Filter aid receiving	54	54	Bagfilter
Bleaching clay receiving	55	55	Bagfilter
East building vents (NSPS DD)	57	57	None
Truck meal loadout	59	59	Bagfilter
Rail meal loadout	60	60	Bagfilter
Rail meal unload pit	60a	Fug 3	None
Hull grinding	65	65	Bagfilter
Refinery vacuum system vent	66	66	None
Dehulling area	68	68	Bagfilter
Bean dehydrator	72	72	None
Wood/PC grain fuel receiving station	79	79	Bagfilter
B335A raw flake conveyor vent fan	84	84	None
C101F L – path fan	85	85	None
Hulls transport to storage	PI-07C	70	Bagfilter
Starch pack tank #1	PI-14 <sup>C</sup>	PI-14	Bagfilter
Starch pack tank #2	PI-15 <sup>C</sup>	PI-15	Bagfilter
Isolate sizing	PI-17	PI-17	Bagfilter
Isolate pack tank #1	PI-18 <sup>C</sup>	PI-18	Bagfilter
Isolate pack tank #2	PI-19 <sup>C</sup>	PI-19	Bagfilter
Isolate pack tank #3	PI-20 <sup>C</sup>	PI-20	Bagfilter
Isolate pack tank #4	PI-21 <sup>C</sup>	PI-21	Bagfilter
<b>Fuel Burning Equipment</b>			
125 bhp diesel engine driven emergency generator (constructed 1982, NESHAP/MACT ZZZZ)	33	33	None
285 bhp diesel fire pump #1 engine (manuf. 1981, NESHAP/MACT ZZZZ)	81	81	None

Emission Unit Description <sup>A</sup>	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
460 bhp diesel fire pump #2 engine (manuf. 1996, NESHAP/MACT ZZZZ)	82	82	None

<sup>A</sup> All emission unit ratings are considered nominal ratings.

<sup>B</sup> Dust discharge from the bottom of the EP 53 bagfilter is routed to the bottom of EP 51 bagfilter, instead of pneumatically conveying the EP 53's particulate catch to the EU 26 Fines Tank.

<sup>C</sup> These emission points discharge indoors and do not emit directly to the exterior of the buildings and are considered insignificant in accordance with NDAC 33.1-15-14-06.4.c.

**2. Applicable Standards, Restrictions and Miscellaneous Conditions:**

**A. Hexane VOC Solvent Loss Ratio (SLR):**

The permittee shall operate the facility in compliance with the following conditions:

The final VOC SLR limit shall be: Compliance Ratio  $\leq$  0.90

Where:

$$\text{Compliance Ratio} = \text{Actual Solvent Loss} / \sum[(\text{Crush}_i) * (\text{SLF}_i)];$$

Actual Solvent Loss = Gallons of actual solvent loss during previous 12 operating months excluding any allowable losses during malfunction periods where:

- (i) the malfunction results in a shutdown of the solvent extraction system; and
- (ii) cumulative solvent losses during malfunction periods do not exceed 4,000 gallons in a 12-month rolling period.

Crush<sub>i</sub> = Tons of each oilseed type "i" process during the previous 12 operating months during normal operating periods; and

SLF<sub>i</sub> = The corresponding solvent loss factor (gal/ton) for oilseed "i" as listed in Table 1 of 40 CFR §63.2840.

**B. JTA Boiler Operations Restrictions (EU 17):**

- 1) Operation of the JTA boiler is limited to a steam output of 164,200 lb/hr (1-hr avg.) of steam.
  - a) For purposes of demonstrating compliance, the boiler will be allowed to operate at a steam output greater than 164,200 lb/hr of steam for up to 60 days after the 164,200 lb/hr limit is initially

exceeded. Compliance with the applicable emission limits must be demonstrated within the 60-day period, subject to extensions for cause.

- b) A compliance report is due within 45 days following completion of testing.
  - c) Department approval must be obtained prior to routine operation of the boiler at a steam output greater than 164,200 lb/hr of steam and will be based upon performance test results demonstrating compliance with the applicable emission limits while operating at least 90% of the requested steam output.
- 2) Operation of the JTA boiler is limited to steam loads of 145,555 lb/hr when RRT and clean wood exceed 56.0% by weight of the total fuel load.
- a) The amount of RRT and clean wood that may be combusted in the JTA boiler is limited to a maximum of 75.8% by weight as determined on a monthly basis. The 75.8% by weight rate is based on the most recent tests that were conducted in August 2011 to develop a CAM Plan for the JTA boiler.
  - b) For purposes of demonstrating compliance, the boiler will be allowed to operate at a rate above the 75.8% level for up to 60 days after the 75.8% level is initially exceeded. Compliance with the applicable emission limits must be demonstrated within the 60-day period.
  - c) A compliance report is due within 45 days following completion of testing.
  - d) Department approval must be obtained prior to routine operation of the boiler at a rate higher than 75.8% by weight and will be based upon performance test results demonstrating compliance with the applicable emission limits while operation at rates above the 75.8% level.
- 3) If demonstrating compliance with the CO emission limit using an O<sub>2</sub> analyzer system as specified in §63.7525(a), maintain the 30-day rolling average oxygen content at or above the lowest hourly average oxygen concentration measured during the CO performance test, as specified in Table 8 of 40 CFR 63, Subpart DDDDD (5D). This requirement does not apply to units that install an oxygen trim system since these units will set the trim system to the level specified in §63.7525(a).
- 4) When demonstrating compliance with a performance test, maintain the 30-day rolling average operating load such that it does not exceed 110 percent of the highest hourly average operating load recorded during the performance test.

C. Newpoint NUK Boiler (EU 62) and Trane Murray Boiler (EU 64) Operations Restrictions:

- 1) Combined No. 2 fuel oil usage for EU 62 and EU 64 is limited to 3,980,841 gallons per 12-month rolling total.
- 2) EU 64 is limited to 100,000 lb/hr (1-hr avg) steam output when combusting fuel oil and 115,000 lb/hr (1-hr avg) steam output when combusting natural gas.
- 3) When demonstrating compliance with a performance test, maintain the 30-day rolling average operating load such that it does not exceed 110 percent of the highest hourly average operating load recorded during the performance test.

3. **Emission Unit Limits:**

*Emission limits from the operation of the source unit(s) identified in Table 1-1, Table 1-3, and*

<b>Emission Unit Description <sup>A</sup></b>	<b>Emission Unit (EU)</b>	<b>Emission Point (EP)</b>	<b>Air Pollution Control Equipment</b>
<b>Processing Equipment</b>			
Dehuller system	5	5	Cyclone
Dehuller system	6	6	Cyclone
Elevators & conveyors	8	8	Cyclone
Meal/hull processing	11	11	Cyclones (2)
Rotary seed conditioner	56	56	Cyclone
Expeller aspiration	58	58	Cyclones (2)
Desolventizer-toaster-dryer-cooler (DTDC)	61	61	Cyclones (2)
Whole seed conditioner	63	63	Cyclone
Main vent (hexane extraction)	67	67	Condensation/Mineral Oil Absorption
Bean receiving/storage <sup>B</sup> /handling	70	70	Bagfilter
Bean/bean powder conveying/storage <sup>C</sup> /packaging	77		
Isolate valve packer receiver	PI-22		
Isolate super sacker receiver	PI-23		
Isolate valve packer aspiration	PI-24		
Pea hull loadout aspiration	PI-25		
Raw legume transport	PI-03	PI-03	Bagfilter
Raw legume screening	PI-04		
Raw legume split conditioner	PI-05		

Emission Unit Description <sup>A</sup>	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Legume split flacking	PI-06		
Hull separation aspiration	PI-07A		
Hulls grinder blowline	PI-07B		
WWTP anaerobic reactor	FR-01 <sup>D</sup>	FR-01	Caustic Scrubber & Biogas Flare
Biogas flare	FR-02		None
<b>Fuel Burning Equipment</b>			
JTA boiler rated at 280 x 10 <sup>6</sup> Btu/hr (nominal) and fired on hulls, biomass, railroad ties and clean wood (constructed 1998, NSPS Db; NESHAP/MACT DDDDD)	17	17	Electrostatic Precipitator (ESP)
Newpoint NUK natural gas-fired (No. 2 fuel oil backup) boiler rated at 15 x 10 <sup>6</sup> Btu/hr (constructed 2010, NSPS Dc; NESHAP/MACT DDDDD)	62	62	None
Trane Murray natural gas/LPG-fired (No. 2 fuel oil backup) boiler rated at 180 x 10 <sup>6</sup> Btu/hr (nominal) (constructed 1977, NESHAP/MACT DDDDD)	64	64	None
1,818 bhp Caterpillar diesel engine driven emergency generator (manuf. 1997, NESHAP/MACT ZZZZ)	69	69	None
Starch flash dryer equipped with a natural gas-fired burner rated at 30 x 10 <sup>6</sup> Btu/hr	PI-09	PI-09	Scrubber
Isolate spray dryer system equipped with a natural gas-fired burner rated at 32 x 10 <sup>6</sup> Btu/hr	PI-16	PI-16a	Bagfilter
		PI-16b	Bagfilter

<sup>A</sup> All emission unit ratings are considered nominal ratings.

<sup>B</sup> Includes eight tanks.

<sup>C</sup> Includes four tanks.

<sup>D</sup> Emissions from this unit are first routed through a wet scrubber for the control of sulfur compounds and then combusted at the flare (EP FR-01).

Table 1-4 of this PTC are as follows in Table 3-1. Source units not listed are subject to the applicable emission limits specified in NDAC 33.1-15.

Upon issuance of this permit, the emission limits set forth in previous Air Permit to Construct Nos., including but not limited to: PTC03004, PTC06004, PTC98002, PTC98010, PTC98017, ACP-17493 v1.0, and ACP-17820 v1.1 are rescinded. The emission limits are replaced with the following:

*Table 3-1: Summary of Permit Emission Limits*

<b>Emission Unit Description</b>	<b>EU</b>	<b>EP</b>	<b>Pollutant/ Parameter</b>	<b>Emission/ Parameter Limit</b>	<b>Regulatory Justification</b>
Dehuller system	5	5	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Dehuller system	6	6	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Hull storage bin vents	7	7	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Elevators & conveyors	8	8	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Meal/hull processing	11	11	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Hammermills	12	12	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
West building vents	22	22	Opacity (fugitive)	0%	33.1-15-12, Subpart DD
Dry seed tank vents (10)	23	23	PM	0.01 gr/dscf (each vent)	33.1-15-12, Subpart DD
			Opacity	0% (each vent)	33.1-15-12, Subpart DD
Meal storage tanks	25	25	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
FM tank-transferring	26	26	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Day tank	29	29	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Fly ash and bottom ash loadout	30	30	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Seed receiving	51	51	PM	0.01 gr/dscf	33.1-15-12, Subpart DD
			Opacity	0%	

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission/Parameter Limit	Regulatory Justification
					33.1-15-12, Subpart DD
Seed cleaning	52	52	PM Opacity	0.01 gr/dscf 0%	33.1-15-12, Subpart DD 33.1-15-12, Subpart DD
Seed storage	53	53	PM Opacity	0.01 gr/dscf 0%	33.1-15-12, Subpart DD 33.1-15-12, Subpart DD
Filter aid receiving	54	54	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Bleaching clay receiving	55	55	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Rotary seed conditioner	56	56	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
East building vents	57	57	Opacity (fugitive)	0%	33.1-15-12, Subpart DD
Expeller aspiration	58	58	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Truck meal loadout	59	59	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Rail meal loadout	60	60	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Desolventizer-toaster-dryer-cooler (DTDC)	61	61	n-Hexane Opacity	Per Subpart 4G 20% (six-minute avg.) <sup>A</sup>	40 CFR 63, Subpart 4G 33.1-15-03-02
Whole seed conditioner	63	63	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Hull grinding	65	65	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Main vent (hexane extraction)	67	67	n-Hexane	Per Subpart 4G	40 CFR 63, Subpart 4G

<b>Emission Unit Description</b>	<b>EU</b>	<b>EP</b>	<b>Pollutant/ Parameter</b>	<b>Emission/ Parameter Limit</b>	<b>Regulatory Justification</b>
Dehulling area bagfilter	68	68	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Bean receiving/storage/handling	70	70	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Bean/bean powder conveying/storage/packaging	77				
Isolate valve packer receiver	PI-22				
Isolate super sacker receiver	PI-23				
Isolate valve packer aspiration	PI-24				
Pea hull loadout aspiration	PI-25				
Bean dehydrator	72	72	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Wood/PC grain fuel receiving station	79	79	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Raw legume transport	PI-03	PI-03	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Raw legume screening	PI-04				
Raw legume split conditioner	PI-05				
Legume split flacking	PI-06				
Hull separation aspiration	PI-07A				
Hulls grinder blowline	PI-07B				
Isolate sizing	PI-17	PI-17	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
WWTP anaerobic reactor with	FR-01/ FR-02	FR-01	SO <sub>2</sub>	35.10 tons/	ACP-18183 v1.0

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission/Parameter Limit	Regulatory Justification
caustic scrubber & biogas flare			Opacity	12-month rolling total 20% (six-minute avg.) <sup>B</sup>	ACP-18183 v1.0 & ACP-17820 v1.1
Allowable Facility Solvent Loss	61 & 67	61 & 67	Solvent Loss	0.90 gal/ton (Condition 2.A)	ACP-18337 v1.0
Processing equipment	Facility-wide	Facility-wide	Oil seeds	3,000 tons/day (amount processed)	PTC98002
<b>Fuel Burning Equipment</b>					
JTA boiler	17 <sup>C</sup>	17	Filterable PM (or TSM <sup>D</sup> )	0.034 lb/10 <sup>6</sup> Btu (or 0.0002 lb/10 <sup>6</sup> Btu) <sup>E</sup>	33.1-15-22-03, Subpart 5D
			PM <sub>10</sub>	38.0 lb/hr (3-hr avg.)	33.1-15-15-01.2 (BACT)
			SO <sub>2</sub>	When combusting creosote-treated railroad ties or clean wood: 0.47 lb/10 <sup>6</sup> Btu (24-hr block avg.)	33.1-15-15-01.2 (BACT)
				When combusting any fuel: 131.6 lb/hr (24-hr block avg.) & 265.0 lb/hr (1-hr avg.) & 334.0 tons/yr (12 m.r.t.) & 3.0 lb/10 <sup>6</sup> Btu (1-hr avg.)	33.1-15-15-01.2 33.1-15-02-04 33.1-15-15-01.2 33.1-15-06-01.2
			NO <sub>x</sub>	0.20 lb/10 <sup>6</sup> Btu (30 d.r.a.)	33.1-15-15-01.2 (BACT)
			CO	0.63 lb/10 <sup>6</sup> Btu & 1,100 ppm @ 3% O <sub>2</sub> (stack test 3 run avg.)	PTC98002, 33.1-15-15-01.2 (BACT) & 33.1-15- 22-03, Subpart 5D

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission/Parameter Limit	Regulatory Justification
			Hg	0.0000054 lb/10 <sup>6</sup> Btu	33.1-15-22-03, Subpart 5D
			HCl	0.020 lb/10 <sup>6</sup> Btu	33.1-15-22-03, Subpart 5D
			Opacity	20% (six-minute avg.) <sup>F</sup> & 10% (daily block avg.) <sup>G</sup>	33.1-15-12, Subpart Db & 33.1-15-22-03, Subpart 5D, Table 4 (item 4.a) & Table 8 (item 1)
			Operations	Condition 2.B	33.1-15-14-06.5.b(1), 33.1-15-22-03, Subpart 5D, Table 4 (items 7 & 8)
Emergency diesel generator engine	33	33	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
			Operating Hours	Per Subpart 4Z <sup>H</sup>	33.1-15-22, Subpart 4Z
Newpoint NUK boiler	62	62	SO <sub>2</sub>	0.05 lb/10 <sup>6</sup> Btu <sup>I</sup>	33.1-15-12, Subpart Dc
			Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
			Operations	Condition 2.C	33.1-15-14-06.5.b(1), 33.1-15-22-03, Subpart 5D, Table 4 (item 7)
Trane Murray boiler	64 <sup>D</sup>	64	<u>Natural Gas/LPG:</u> NOx	0.053 lb/10 <sup>6</sup> Btu	PTC98002
			Opacity	20%	33.1-15-03-02

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission/Parameter Limit	Regulatory Justification
			No. 2 Fuel Oil: SO <sub>2</sub>	(six-minute avg.) <sup>A</sup>  0.05 lb/10 <sup>6</sup> Btu <sup>I</sup>	33.1-15-14-06.5.b(1)  PTC98002
			NO <sub>x</sub>	0.14 lb/10 <sup>6</sup> Btu	33.1-15-03-02
			Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
			Operations	Condition 2.C	33.1-15-14-06.5.b(1), 33.1-15-22-03, Subpart 5D, Table 4 (item 7)
Caterpillar emergency diesel generator engine	69	69	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
			Operating Hours	Per Subpart 4Z <sup>H</sup>	33.1-15-22, Subpart 4Z
Diesel fire pump #1 engine	81	81	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
			Operating Hours	Per Subpart 4Z <sup>H</sup>	33.1-15-22, Subpart 4Z
Diesel fire pump #2 engine	82	82	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
			Operating Hours	Per Subpart 4Z <sup>H</sup>	33.1-15-22, Subpart 4Z
Starch flash dryer	PI-09	PI-09	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
Isolate spray dyer system	PI-16	PI-16a	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02
		PI-16b	Opacity	20% (six-minute avg.) <sup>A</sup>	33.1-15-03-02

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission/Parameter Limit	Regulatory Justification
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- A 40% opacity is permissible for not more than one six-minute period per hour, unless otherwise noted, or provided under NDAC 33.1-15-03; applies to each emission point.
- B 60% opacity is permissible for not more than one six-minute period per hour per NDAC 33.1-15-03-03.1, unless otherwise noted, or provided under NDAC 33.1-15-03.
- C Additional NDAC 33.1-15-22-03, Subpart DDDDD emissions limits may apply depending on boiler operation and type of fuel used. All methods provided by the rule for demonstrating compliance are available to the permittee, even if those methods may not be specifically stated in this permit.
- D Total Selected Metals (TSM) - arsenic, beryllium, cadmium, chromium, lead, manganese, nickel and selenium.
- E The lb/10<sup>6</sup> Btu emission limits established by 40 CFR 63, Subpart DDDDD are more stringent than the lb/10<sup>6</sup> Btu emission limits established by BACT, 40 CFR 60, Subpart Db and PTC98002.
- F 40% opacity permissible for not more than one six-minute period per hour, except whenever any amount of creosote-treated railroad ties or clean wood are combusted in the JTA boiler (EU 17). When combusting railroad ties or wood, EU 17 shall not discharge into the atmosphere any gases that exhibit greater than 20% opacity (six-minute average), except for one six-minute period per hour of not more than 27% opacity.
- G The JTA boiler, EU 17, is limited to less than or equal to 10% opacity (daily block average) or the highest hourly average opacity reading measured during the most recent performance test run demonstrating compliance with the PM (or TSM) emission limitation.
- H The potential to emit for an emergency stationary reciprocating internal combustion engine (RICE) is based on operating no more hours per year than is allowed by the subpart (40 CFR 63, Subpart ZZZZ) for other than emergency situations. For engines to be considered emergency stationary RICE under the RICE rules, engine operations must comply with the operating hour limits as specified in the applicable subpart. There is no time limit on the use of emergency stationary RICE in emergency situations [40 CFR 63, Subpart ZZZZ, §63.6640(f)].
- I As an alternative, the oil combusted may contain a maximum of 0.05 weight percent sulfur.

**4. Emission Testing Requirements:**

No additional emission testing requirements are established with this permit.

**5. Stack Height Requirements:**

No changes to stack heights are authorized with this permit.

**6. General Conditions (Action Required):**

A. Modification:

Any alteration, repair, expansion, or change in the method or physical operation of the source which results in the emission of an additional type or greater amount of air contaminants, or which results in an increase in the ambient concentration of any air contaminant is considered a

modification and must be reviewed and approved by the Department before implementation. The Department shall be notified 10 days in advance of any significant deviations from the application. The issuance of this PTC may be suspended or revoked if the Department determines that a significant deviation has been or is to be made without the proper review or approval.

*Applicable requirement: NDAC 33.1-15-14-02.9.d*

B. Like-Kind Emission Unit Replacement:

This permit allows the permittee to replace an existing emission unit with a like-kind unit. Replacement is subject to the following conditions:

- 1) The replacement unit is subject to the same emission limits and performance testing requirements—both state and federal—as the existing unit. The facility must comply with any additional federal standards (e.g. NSPS, MACT) triggered by the replacement.
- 2) The Department must be notified within 10 days of replacement. The date of manufacture of the replacement unit and any additional federal applicability must be included in the notification.
- 3) The replacement unit shall operate in the same manner without increasing throughput and have equal or less emissions than the unit it is replacing.
- 4) If applicable, testing shall be conducted to confirm compliance with emission limits within 180 days after start-up of the replacement unit. Emergency units shall not be required to test if replaced by a like-kind unit.

*Applicable requirement: NDAC 33.1-15-14-02.9.d*

C. Annual Emission Inventory/Annual Production Reports:

The permittee shall submit an annual emission inventory report and/or an annual production report upon Department request on forms approved by the Department.

*Applicable requirement: NDAC 33.1-15-14-02.9.d*

D. Malfunction Notification:

The permittee shall notify the Department of any malfunction which can be expected to last longer than 24 hours and can cause the emission of air contaminants in violation of applicable rules and regulations. Using empirical estimates of emission rates, the permittee shall conservatively estimate if the malfunction can cause noncompliance.

*Applicable requirement: NDAC 33.1-15-01-13.2.a*

E. Transfer of Permit to Construct:

The holder of a PTC may not transfer such permit without prior approval from the Department.

*Applicable requirement: NDAC 33.1-15-14-02.11*

## 7. **General Conditions (Obligations):**

### A. Operation:

Operation of the facility shall be in accordance with the permit application—which includes technical supplements, revisions, and supporting data. Any operations not listed in this permit are subject to all applicable NDAC 33.1-15 requirements. 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 practice for minimizing emissions.

*Applicable requirements: NDAC 33.1-15-12, NDAC 33.1-15-22*

### B. Recordkeeping:

The permittee shall maintain any compliance monitoring records required by this permit or applicable requirements for a period of at least five years (unless otherwise stated) from the date of the monitoring sample, measurement, report or application. Support information may include all calibration and maintenance records, all original strip-chart recordings and computer printouts for continuous monitoring instrumentation, and copies of all reports required by the permit.

*Applicable requirements: NDAC 33.1-15-14-02.9.d*

### C. Control of Organic Compound Emissions:

The permittee shall comply with all applicable requirements of NDAC 33.1-15-07, which establishes requirements for the construction of organic compound facilities related to closed-vent systems, control devices, and seals and for the control of VOC vapors using a continuously burning pilot flare or other equally effective control device.

### D. Internal Combustion Engine Emissions Restricted:

The permittee shall comply with all applicable requirements of NDAC 33.1-15-08-01, which restricts the operation of internal combustion engines which emit, from any source, unreasonable and excessive smoke, obnoxious or noxious gas, fumes or vapor.

### E. Restriction of Fugitive Emissions:

The release of fugitive emissions shall comply with the applicable requirements in NDAC 33.1-15-17, which restricts particulate matter and gaseous fugitive emissions that would violate other regulations.

### F. Permit Invalidation:

This permit shall be effective from the date of its issuance unless suspended, revoked or surrendered. The violation of any condition of this permit may result in revocation or suspension of the permit or other appropriate enforcement action. If any provision or application of a provision of this permit is held invalid in any circumstance, the remainder of this permit shall remain valid.

*Applicable requirement: NDAC 33.1-15-14-02.9*

G. Nuisance or Danger:

This permit shall in no way authorize the maintenance of a nuisance or a danger to public health or safety.

*Applicable requirements: NDAC 33.1-15-02-03, NDAC 33.1-15-14-02.9.c*

H. Right of Entry:

Any duly authorized officer, employee, or agent of the Department may enter and inspect any property, premise, or place at which the source is located at any time for the purpose of ascertaining compliance with NDAC 33.1-15. The Department may inspect monitoring equipment, conduct tests, and take samples of air contaminants, fuel, processing material, and other materials, which affect or may affect the emission of air contaminants from any source. The Department shall have the right to access and copy any records required by the Department.

*Applicable requirement: NDAC 33.1-15-01-06, NDCC 23.1-06-11*

**8. State Enforceable Conditions (Not Federally Enforceable):**

A. Emissions of Odorous Substances Restricted:

The permittee shall not discharge into the ambient air any objectionable odorous air contaminant which measures seven odor concentration units or greater.

*Applicable requirement: NDAC 33.1-15-16*