PUBLIC NOTICE

The Iowa Department of Natural Resources (DNR) is proposing to renew the Title V Operating Permit for ADM – Des Moines Soybean. This facility is located at 1935 E. Euclid Ave., Des Moines, IA 50316. DNR is currently reviewing an application for renewal submitted by ADM – Des Moines Soybean to operate their existing soybean oil mill and soybean oil, refined, crushing mill, (SIC 2075) (NAICS 311224).

ADM – Des Moines Soybean is required to obtain a Title V Operating Permit pursuant to 567 Iowa Administrative Code (IAC) 24.101. This facility has the potential to emit the following air pollutants annually:

PM-2.5 (particulate matter 2.5 microns or less in diameter): 65.76 tons
PM-10 (particulate matter ten microns or less in diameter): 96.39 tons
Particulate Matter: 150.51 tons
Sulfur Dioxide: 2.21 tons
Nitrogen Oxides: 221.33 tons
Volatile Organic Compounds: 798.24 tons
Carbon Monoxide: 86.24 tons
Hazardous Air Pollutants: 559.10 tons

Based on the information provided in the Title V Operating Permit renewal application, the DNR has made an initial determination that the facility meets all the applicable criteria for the issuance of an operating permit specified in 567 IAC 24.107.

A copy of the Public Notice is available for public inspection at the:

North Side Public Library
3516 5th Avenue
Des Moines, Iowa 50313
Phone: (515) 283-4152

These documents are also available on the Air Quality Bureau's and Polk County's websites at:
http://www.iowadnr.gov/titlev-draft

For additional information or for a copy of the draft permit or fact sheet contact:

Riley H. Plagge
Air Quality Supervisor
Polk County Public Works Department
Air Quality Division
5885 NE 14th Street
Des Moines, Iowa 50313
Phone: (515) 286-3271
E-mail: riley.plagge@polkcountyiowa.gov

A complete record of the permit review, including the renewal application and the draft permit, is available for public inspection Monday-Friday, 7:00 a.m. - 3:30 p.m., at the Polk County address shown above.

The public comment period for the draft permit will run from May 14, 2026 through June 12, 2026. During the public comment period, anyone may submit written comments on the permit. Mail signed comments to Riley Plagge at the Polk County address shown above. The beginning date of this public comment period also serves as the beginning of the U.S. Environmental Protection Agency's (EPA) 45-day review period, provided the EPA does not seek a separate review period.

Written requests for a public hearing concerning the permit may also be submitted during the comment period. Any hearing request must state the person's interest in the subject matter, and the nature of the issues proposed to be raised at the hearing. DNR will hold a public hearing upon finding, on the basis of requests, a significant degree of relevant public interest in a draft permit. Mail hearing requests to Riley Plagge at the Polk County address shown above.

DNR will keep a record of the issues raised during the public participation process, and will prepare written responses to all comments received. The comments and responses will be compiled into a responsiveness summary document. After the close of the public comment period, DNR will make a final decision on the renewal application. The responsiveness summary and the final permit will be available to the public upon request.

Individuals with disabilities or limited English proficiency are encouraged to participate in all DNR activities, including submitting public comments. If a reasonable accommodation or language services are needed to participate, contact the Polk County staff member listed or Relay Iowa TTY Service at 800-735-7942 in advance to advise them of your specific needs. DNR’s language access and disability nondiscrimination plans are available at https://www.iowadnr.gov/About-DNR/Environmental-Justice.

Iowa Department of Natural Resources
Draft Title V Operating Permit Fact Sheet

This document has been prepared to fulfill the public participation requirements of 40 CFR Part 70 and 567 Iowa Administrative Code (IAC) 24.107(6). 40 CFR Part 70 contains operating permit regulations pursuant to Title V of the Clean Air Act.

The Iowa Department of Natural Resources (DNR) finds that:

1. ADM – Des Moines Soybean Processing Plant, located at 1935 E. Euclid Ave., Des Moines, IA 50316 has applied to renew their Title V Operating Permit. The designated responsible official of this facility is Mr. Dan James, Complex Manager.
2. ADM – Des Moines Soybean Processing Plant is a Soybean Oil Mills (SIC 2075); Soybean oil, refined, crushing mills (NAICS 311224) facility. This facility consists of sixty (60) significant emission units with potential emissions of:

Pollutant	**Abbreviation**	**Potential Emissions** (Tons per Year)
Particulate Matter (≤ 2.5 μm)	$PM_{2.5}$	65.76
Particulate Matter (≤ 10 μm)	PM_{10}	96.39
Particulate Matter	PM	150.51
Sulfur Dioxide	SO_2	2.21
Nitrogen Oxides	NO_x	221.33
Volatile Organic Compounds	VOC	798.24
Carbon Monoxide	CO	86.24
Hazardous Air Pollutants [(1)]	HAP	559.10

[(1)] May include the following: (see 04-TV-020R2 application).

3. ADM – Des Moines Soybean Processing Plant submitted a Title V Operating Permit renewal application on October 18, 2018 and any additional information describing the facility on June 2, 2025. Based on the information provided in these documents, DNR has made an initial determination that the facility meets all the applicable criteria for the issuance of an operating permit specified in 567 IAC 24.107.
4. DNR has complied with the procedures set forth in 567 IAC 24.107, including those regarding public notice, opportunity for public hearing, and notification of EPA and surrounding state and local air pollution programs.

DNR procedures for reaching a final decision on the draft permit:

1. The public comment period for the draft permit will run from May 14, 2026 through June 12, 2026. The beginning date of this public comment period also serves as the beginning of the U.S. Environmental Protection Agency's (EPA) 45-day review period, provided the EPA does not seek a separate review period. During this time, anyone may submit written comments on the permit. Mail signed comments to Riley Plagge at the Polk County address shown below.
2. Written requests for a public hearing concerning the permit may also be submitted during the comment period. Any hearing request must state the person's interest in the subject matter, and the nature of the issues proposed to be raised at the hearing. DNR will hold a public hearing upon finding, on the basis of requests, a significant degree of relevant public interest in a draft permit. Mail hearing requests to Riley Plagge at the Polk County address shown below.
3. DNR will keep a record of the issues raised during the public participation process, and will prepare written responses to all comments received. The comments and responses will be compiled into a responsiveness summary document. After the close of the public comment period, DNR will make a final decision on the renewal application. The responsiveness summary and the final permit will be available to the public upon request.

   Ms. Riley Plagge
   Air Quality Supervisor
   Polk County Public Works
   Air Quality Division
   5885 NE 14th Street
   Des Moines, Iowa 50313
   Phone: (515) 286-3271
   E-mail: riley.plagge@polkcountyiowa.gov

DNR concludes that:

1. DNR has authority under 455B.133 Code of Iowa to promulgate rules contained in 567 IAC Chapters 20-35, including, but not limited to, rules containing emission limits, providing for compliance schedules, compliance determination methods and issuance of permits.
2. DNR has the authority to issue operating permits for air contaminant sources and to include conditions in such permits under 455B.134 Code of Iowa.
3. The emission limits included in this permit are authorized by 455B.133 Code of Iowa and 567 IAC Chapters 20-35.
4. DNR is required to comply with 567 IAC Chapter 24 in conjunction with issuing a Title V Operating Permit.
5. The issuance of this permit does not preclude the DNR or Polk County from pursuing enforcement action for any violation.

Worksheet of Air Operating Permit	SIC 2075: Soybean Oil Mills NAICS 311224: Soybean oil, refined, crushing mills

Applicant: ADM – Des Moines Soybean Processing Plant Review Engineer:
EIQ Number: 92-6313 Jeff Gabby
Facility File Number: 77-01-045

Application Evaluation

A. Project Briefing:

This project regards a Part 70 Title V permit renewal application to operate the following significant emission units: (EP C06A / CE C06A /EU C06) Fly-ash Conveying with Flex-Kleen Cyclone & Baghouse; (EP C06B / CE C06B / EU C06) Fly Ash Conveying with Flex-Kleen Cyclone & Baghouse; (EP C07 /CE C07 / EU C07) Fly Ash Silo with Flex Kleen Model 58-BVB-C9-IIG Baghouse; (EP C09 / EU C09) Standby Boiler, 175 MMBtu/hr; 193,000 $ft^{3/}$/hr natural gas; (EP C09A / EU C09) Standby Boiler By-pass, 175 MMBtu/hr; 193,000 $ft^{3/}$/hr natural gas; (EP C10 /CE C10 / EU C10) Boiler with Low NOx Burners, 240 MMBtu/hr; 235,295 scf/hr natural gas or 1,715 gal/hr #2 fuel oil; (EP C012 / CE C012/EU C012) 600 kW Caterpillar Model 3412 Diesel Generator, with Johnson Matthey HAPGuard CO Catalyst (CE-C012); (EP C013 / EU C013) 61.5 MMBtu Nebraska Model NS-E-58 natural gas fired boiler #4.

(EP GP02 /EU GP02); two 500,000 bushel bean storage tanks: (EP GP04A / CE GP04A / EU GP04); 250 Ton per hour Conveying to Process with MAC Elevator Baghouse: (EP GP05A / CE GP05A /EU GP05); 275 Ton per hour Escher Wyss Conditioning/ Dehulling with Pneumafil Model RAF-II 11.5-320-12 Baghouse: (EP GP06A / CE GP06B / EU GP06A); 210 Ton per Hour Flaking Aspiration with Baghouse: (EP GP07 / EU GP07); 250 Ton per hour Conveying to Extractor: (EP GP09A / CE GP09A / EU GP09, GP014, MP01); (EU GP09) Extractor; 230 tph (Solvent Bubble), (EU MP01) Desolventizer/Toaster/Dryer/Cooler (DTDC); 215 tph, (EU GP014) 2-30,000 gallon Hexane Tanks with a Mineral Oil Absorption System: (EP GP013 / EU GP013); natural gas fired Emergency Lighting Generator: (EP GP015A / CE GP015A / EU GP015A); Prep Building Central Vacuum System with Smoot Prep Vacuum: (EP GP016 / CE GP016A / EU GP016); 275 Ton per Hour Crown Model VSC130 Soybean Heater with Pneumafil Model RAF-II 11.5x320x12 Baghouse: (EP GP019A, GP019B, GP019C, GP019D / CE GP019A, GP019B, GP019C, GP019D / EU GP019A, GP019B, GP019C, GP019D); 4 Cell Extraction Evapco Cooling Tower with Evapco Mist Eliminator 0.0005% : (EU / EP GP021, GP022, GP 023);3x Extraction- Diesel Fire Pumps.

[(EP HR01A / CE HR01A / EU GP011) Conveying to Aspirator/Whole Bean Aspiration; (EP HR01A / CE HR01A / EU HR01A) Secondary Aspiration, Hull Gravity Tables] with a Pneumafil 13.5x460x10 baghouse: (EP HR02A / CE HR02A / EU HR02A); 19.25 Ton per Hour Hull Grinding, with Donaldson Model 124RFW8 Baghouse: (EP HR03 / CE HR03 / EU HR03); Pellet Cooler with Carter Day Model #HV74 Cyclone:

(EP MP01 / CE MP01A, MP01B, MP01C, MP01D, MP01E, MP01F / EU MP01); Crown Desolventizer Toaster/Dryer Cooler (DTDC) with 6 Cyclones: (EP MP02A / CE MP02A / EU MP02A, MP03, MP04, MP08B, HR04); Meal Grinding / Meal Transfer / Flowability Agent Silo / Concrete Meal Storage Tank #2 / Hull Pellet Storage Tank with Pneumafil Model RAF-IS-320-10 Baghouse: (EP MP06A / CE MP06A / EU MP05, MP06); Meal Conveying / Meal Loading with Pneumafil Model RAF-II-16-600-10 Baghouse: (EP MP07A / CE MP07A / EU MP07); 250 Ton per Hour Meal Rail Loadout with MAC Model 144MPH416 Baghouse: (EP MP010 /EU MP010); Meal/Hull Unloading Pit:

(EP R01 / CE R01 / EU R01); Filter Aid Receiving/Storage with Flex-Kleen Model #84-BV-9 Baghouse: (EP R02 / CE R02 / EU R02); Bleaching Clay Receiving/Storage with Flex-Kleen Model #84-BV-9 Baghouse: (EP R03 / CE R03 / EU R03); Slurry/Precoat Tanks with Ducon Scrubber Model #3: (EP R04 / CE R04A, RO4B / EU R04); Filter Aid/Bleaching Clay Day Bins with (2) Torrit Day Model #84-OB Bag Filters: (EP R06 / EU R06); 6,000 gallon/minute, 3 cell Refinery Cooling Tower: (EP R08 / EU R08) Refinery Steam Generator: Detroit Diesel Allison Diesel Fire Pump at Refinery: (EP R09 / EU R09) Refinery- Steam Generator.

(EP U03 / CE U03 / EU U03); Rail Receiving #1/ Conveying with Donaldson Model 232-RFW-12 Baghouse: (EP U03F / EU U03); Rail Receiving #1 fugitive emissions: (EP U05, U05A / EU U05); Grain Storage (4) West Bean Tanks: (EP U07, EP U07F / CE U07 / EU U01, U02, U04); West Side Truck Dump, East Side Truck Dump and Grain Conveyor with Donaldson Model 376 RFW-10 Baghouse and Truck Dump Fugitive Emissions: and (EP U08 / EU BEN, EU MEL, EU OIL, EU HEX, EU FLO); Haul Roads- Truck Traffic Fugitive Emissions.

The following emission units are insignificant, per 567 IAC 22.102- 103:

IA3: Refinery Bag Unloading System
IA5: (2) 15,000 Gallon No. 2 Fuel Oil Tanks
IA6: 3,196 Gallon Dilute Acid Tank
IA7: 10,000 Gallon Concentrated Acid Tank
IA8: Yard Waste Hopper
IA10: 790 Gallon Primary Boiler Lube Oil Tank
IA11: 15,863 Gallon Wastewater Tank
IA12: Vent Off Sewer Line
IA14: CoGen Cooling Tower
IA16: Hot Gas Generator
IA17: (2) 15,000 Gallon Cogen No. 2 Fuel Oil Tanks
IA18: (1) 300 Gallon Cogen Cat No. 2 Fuel Oil Tank

B. Applicable rules and regulations:

1. Emission limits and conditions:

DNR Construction Permit # 87-A-021-S1 limits PM emissions to 0.02 gr/dscf; PM_{10} emissions to 0.26 lb./hr; Opacity to 0% from Fly Ash Transfer with Flex-Kleen baghouse: (EP C06A / CE C06A / EU C06).

DNR Construction Permit # 09-A-413 limits PM emissions to 0.02 gr/dscf; PM_{10} emissions to 0.26 lb./hr; Opacity to 0% from Fly Ash Transfer with Flex-Kleen baghouse: (EP C06B / CE C06B / EU C06).

DNR Construction Permit # 87-A-022-S90 limits PM emissions to 0.08 lb./hr, 0.35 TPY; Opacity to 0% from Fly Ash Silo with Flex-Kleen baghouse: (EP C07 / CE C07 / EU C07).

DNR Construction Permit # 88-A-203-S4 limits PM emissions to 10.9 lb./hr and 0.2 lb/MMBtu; PM_{10} emissions to 1.3 lbs./ hr; Opacity to 20%; SO_2 to 0.1 lb./hr, and 500 ppm_v; NOx to 32.6 lb/hr; CO to 4.45 lbs./hr from the 175 MMBtu/hr / 193,000 ft^3/hr natural gas Standby Boiler: (EP C09 / EU C09).

DNR Construction Permit # 09-A-414-S1 limits PM emissions to 10.9 lb./hr and 0.2 lb/MMBtu; PM_{10} emissions to 1.3 lbs./ hr; Opacity to 20%; SO_2 to 0.1 lb./hr, and 500 ppm_v; NOx to 32.6 lb/hr; CO to 4.45 lbs./hr from the 175 MMBtu/hr / 193,000 ft^3/hr natural gas Standby Boiler Bypass: (EP C09A / EU C09). EU C09 has one PTE which can emit from either EP C09 or EP C09A.

Polk County Construction Permit # 3794 limits PM to 0.6 lb/MMBtu; PM_{10} emissions to 0.96 lb./hr, (natural gas) and 5.66 lb/hr (No. 2 fuel oil); Opacity to <20%; SO_x to 500 PPMv (natural gas) and 0.5 lb/MMBtu (No. 2 fuel oil); NOx to 8.64 lb/hr (natural gas), 39.40 TPY (total); CO to 8.88 lbs/hr from the (EP C10 /CE C10 / EU C10) Boiler with Low NOx Burners, 240 MMBtu/hr; 235,295 scf/hr natural gas or 1,715 gal/hr #2 fuel oil.

Polk County Construction Permit # 1115 Modified #2 limits PM emissions to 0.42 lb./ hr, 0.11 TPY, and 0.10 gr/dscf; PM_{10}/PM2.5 emissions to 0.35 lb./hr, 0.09 TPY, Opacity to <20%; SO2 to 0.009 lb./hr, 0.002 TPY, and 0.5 lb/MMBtu; NOx to 19.51 lbs/hr, 4.88 TPY; VOC to 0.50 lb./hr, 0.13 TPY; CO to 4.42 lbs/hr, 0.22 TPY from the (EP C012 / CE C012/EU C012) 600 kW Caterpillar Model 3412 Diesel Generator, with Johnson Matthey HAPGuard CO Catalyst (CE-C012). Permit #1115 Modified #2 limits the use of the generator to 500 hours per 12 month period, rolled monthly: (EP C012 / CE C012 / EU C012).

Polk County Construction Permit # 2530 limits PM/PM_{10} emissions to 0.46 lb./hr, 2.00 TPY, 0.10 gr/dscf, and 0.6 lb/MMBtu; Opacity to <20%; SO_x to 0.04 lb./hr, 0.16 TPY, and 500 ppm; NOx to 6.00 lbs/hr, 26.28 TPY; VOC to 0.33 lb./hr, 1.45 TPY; CO to 5.04 lbs/hr, 22.08 TPY from the 61.5 MMBtu Nebraska Model NS-E-58 natural gas fired Boiler #4: (EP C013 / EU C013).

2-500,000 bushel bean storage tanks: (EP GP02 / EU GP02) constructed in 1963 are grandfathered from construction permitting requirements.

Polk County Construction Permit # 1892 Modified #4 limits $PM_{2.5}$ / PM_{10} emissions to 0.48 lb./hr. PM is limited to 0.01 gr/dscf by 40 CFR §60.302(b)(1), and Opacity to 0% for 250 Ton per Hour Conveying to Process with MAC Elevator Baghouse: (EP GP04A / CE GP04A / EU GP04).

Polk County Construction Permit # 1407 Modified #4 limits $PM_{2.5}$ / PM_{10} / PM emissions to 0.27 lb./hr, 0.96 TPY, and 0.10 gr/dscf; Opacity to <20% for 275 Ton per Hour Escher Wyss Conditioning/Dehulling with Pneumafil Model RAF-II 11.5-320-12 Baghouse: (EP GP05A / CE GP05A / EU GP05).

Polk County Construction Permit # 1618 Modified #7 limits PM emissions to 0.10 gr/dscf; $PM_{2.5}$ / PM_{10} emissions to 0.675 lbs./hr; Opacity to <20% for (EP GP06A / CE GP06B / EU GP06A); 210 Ton per Hour Flaking Aspiration with Baghouse.

Polk County Construction Permit # 0103 Modified #4 limits PM emissions to 0.10 gr/dscf; $PM_{2.5}$ / PM_{10} emissions to 0.343 lbs./hr; Opacity to <20% for (EP GP07 / EU GP07); 250 Ton per hour Conveying to Extractor.

DNR Construction Permit # 07-A-1078-P2 limits VOC to 788 tons per 12-month period rolled monthly and 0.140 gal VOC lost/ ton of soybeans processed; Total HAP to Compliance Ratio≤ 1.00 from (EP GP09A / CE GP09A / EU GP09, GP014, MP01); (EU GP09) Extractor; 230 tph (Solvent Bubble), (EU MP01) Desolventizer/Toaster/Dryer/Cooler (DTDC); 215 tph, (EU GP014) 2-30,000 gallon Hexane Tanks with a Mineral Oil Absorption System.

Natural Gas Fired Emergency Lighting Generator (EP GP013 / EU GP013) is exempt from construction permitting per IAC 567-22.1(2)*r* and Polk County Chapter V, Article X Section 5-33(17).

Polk County Construction Permit # 0092 Modified limits PM/PM_{10} emissions to 0.043 lb./hr , 0.19 TPY and 0.01 gr/dscf (Polk County Chapter V, Article IV, Section 5-9 limits opacity to <40%) for Prep Building Central Vacuum System with Smoot Prep Vacuum: (EP GP015A / CE GP015A / EU GP015A).

Polk County Construction Permit # 2343 Modified limits PM/PM_{10}/$PM_{2.5}$ emissions to 0.25 lb./hr; 1.10 TPY, and PM emissions to 0.10 gr/dscf; Opacity to <20% for (EP GP016 / CE GP016A / EU GP016); 275 Ton per Hour Crown Model VSC130 Soybean Heater with Pneumafil Model RAF-II 11.5x320x12 Baghouse.

Polk County Construction Permit # 2823 Modified limits PM/PM_{10}/$PM_{2.5}$ emissions to 0.056 lb./hr; and PM emissions to 0.10 gr/dscf; Opacity to <20% for (EP GP019A, GP019B, GP019C, GP019D / CE GP019A, GP019B, GP019C, GP019D / EU GP019A, GP019B, GP019C, GP019D); 4 Cell Extraction Evapco Cooling Tower with Evapco Mist Eliminator 0.0005%.

Polk County Construction Permit # 4027 limits $PM_{10}/PM_{2.5}$ emissions to 0.16 lb./hr;, PM emissions to 0.10 gr/dscf; Opacity to <40%, and SO_2 to 0.5% by weight for (EP GP021 / EU GP021); Extraction – Diesel Fire Pump.

Polk County Construction Permit # 4028 limits $PM_{10}/PM_{2.5}$ emissions to 0.16 lb./hr;, PM emissions to 0.10 gr/dscf; Opacity to <40%, and SO_2 to 0.5% by weight for (EP GP022 / EU GP022); Extraction – Diesel Fire Pump.

Polk County Construction Permit # 4029 limits $PM_{10}/PM_{2.5}$ emissions to 0.16 lb./hr;, PM emissions to 0.10 gr/dscf; Opacity to <40%, and SO_2 to 0.5% by weight for (EP GP023 / EU GP023); Extraction – Diesel Fire Pump.

Polk County Construction Permit # 2531 Modified #2 limits $PM_{10}/PM_{2.5}$ emissions to 0.75 lb./hr; PM emissions to 0.10 gr/dscf; Opacity to <20% for [(EP HR01A / CE HR01A / EU GP011) Conveying to Aspirator/Whole Bean Aspiration; (EP HR01A / CE HR01A / EU HR01A) Secondary Aspiration, Hull Gravity Tables] with a Pneumafil 13.5x460x10 baghouse.

Polk County Construction Permit # 0100 Modified #7 limits $PM/PM_{10}/PM_{2.5}$ emissions to 0.29 lb./hr, 0.59 TPY, and also PM to 0.10 gr/dscf; Opacity to <20% for 19.25 Ton per Hour Hull Grinding with Donaldson Model 124RFW8 baghouse: (EP HR02A / CE HR02A / EU HR02A).

Polk County Construction Permit # 2827 Modified #2 limits $PM/PM_{10}/PM_{2.5}$ emissions to 0.65 lb./hr, PM to 0.10 gr/dscf; Opacity to <20% for 14.5 Ton per Hour Pellet Cooler with Carter Day Model HV74 Cyclone: (EP HR03 / CE HR03 / EU HR03).

Polk County Construction Permit # 1626 Modified #5 limits $PM_{10}/PM_{2.5}$ emissions to 3.37 lb./hr, PM to 0.10 gr/dscf, Opacity to <20% for Crown Desolventizer Toaster/Dryer Cooler (DTDC) with 6 Cyclones (EP MP01 / CE MP01A/B/C/D/E/F / EU MP01).

Polk County Construction Permit # 0090 Modified #6 limits PM emissions to 0.10 gr/dscf; $PM_{10}/PM_{2.5}$ to 0.67 lb/hr; Opacity to <20% for 250 Ton per Hour for (EP MP02A / CE MP02A / EU MP02A, MP03, MP04, MP08B, HR04); Meal Grinding / Meal Transfer / Flowability Agent Silo / Concrete Meal Storage Tank #2 / Hull Pellet Storage Tank with Pneumafil Model RAF-IS-320-10 Baghouse.

Polk County Construction Permit # 2128 Modified #2 limits PM emissions to 0.75 lb/hr, 3.29 TPY, and 0.10 gr/dscf; $PM_{10}/PM_{2.5}$ to 0.75 lb/hr, 3.29 TPY; Opacity to <20% for (EP MP06A / CE MP06A / EU MP05, MP06); Meal Conveying / Meal Loading with Pneumafil Model RAF-II-16-600-10 Baghouse.

Polk County Construction Permit # 0105 Modified #4 limits PM emissions to 0.10 gr/dscf; $PM_{10}/PM_{2.5}$ to 0.75 lb/hr, Opacity to <20% for 250 Ton per Hour Meal Rail Loadout with MAC Model 144MPH416 baghouse: (EP MP07A / CE MP07A / EU MP07).

Polk County Construction Permit # 1775 limits PM emissions to 28.22 lbs./hr,. 1.62 TPY; PM_{10} emissions to 10.15 lbs./hr, 0.59 TPY; Opacity to 5% for Meal Hull Unloading Pit: (EP MP010 / EU MP010).

Polk County Construction Permit # 0366 contains no emission limits (Polk County Chapter V, Article VI, Section 5-14(3) limits PM emissions to 0.10 gr/dscf); (Polk County Chapter V, Article IV, Section 5-9 limits opacity to <40%); for Filter Aid Receiving/Storage with Flex-Kleen Model #84-BV-9: (EP R01 / CE R01 / EU R01).

Polk County Construction Permit # 0367 contains no emission limits (Polk County Chapter V, Article VI, Section 5-14(3) limits PM emissions to 0.10 gr/dscf); (Polk County Chapter V, Article IV, Section 5-9 limits opacity to <40%); for Bleaching Clay Receiving/Storage with Flex-Kleen Model #84-BV-9 Baghouse: (EP R02 / CE R02 / EU R02).

Polk County Construction Permit # 0414 Modified #2 limits PM/PM_{10} emissions to 0.90 lb./hr, 3.94 TPY, and 0.10 gr/dscf; Opacity to <20% for Slurry/Precoat Tanks with Ducon Model #3 Scrubber: (EP R03 / CE R03 / EU R03).

Polk County Construction Permit # 0368 contains no emission limits (Polk County Chapter V, Article VI, Section 5-14(3) limits PM emissions to 0.10 gr/dscf); (Polk County Chapter V, Article IV, Section 5-9 limits opacity to <40%); for Filter Aid/Bleaching Clay Day Bins with Torrit Bag Filter: (EP R04 / CE R04A / EU R04).

Polk County Construction Permit # 0369 contains no emission limits (Polk County Chapter V, Article VI, Section 5-14(3) limits PM emissions to 0.10 gr/dscf); (Polk County Chapter V, Article IV, Section 5-9 limits opacity to <40%); for Filter Aid/Bleaching Clay Day Bins with Torrit Bag Filter: (EP R04 / CE R04B / EU R04).

Polk County Construction Permit # 2134 limits PM emissions to 0.45 lb./hr, 1.97 TPY, and 0.10 gr/dscf; PM_{10} emissions to 0.225 lb./hr, 0.99 TPY and 0.10 gr/dscf for 6,000 gallon per minute 3 Cell Refinery Cooling Tower: (EP R06 / EU R06).

Polk County Construction Permit # 3411 Modified limits $PM_{10}/PM_{2.5}$ emissions to 0.79 lb./hr and PM emissions to 0.10 gr/dscf; Opacity to <20%; SO_2 to 0.5 lb./MMBTU from (EP R08 / EU R08) 357 hp (18.2 gallons/hour) Detroit Diesel Allison Diesel Fire Pump at Refinery.

Polk County Construction Permit # 4006 limits $PM_{10}/PM_{2.5}$ emissions to 0.06 lb./hr and PM emissions to 0.6 lb/MMBtu; Opacity to <20%; SO_2 to 500 ppmv from the Refinery Steam Generator, 13.853 MMBtu/hr: (EP R09 / EU R09).

Polk County Construction Permit # 0802 Modified limits PM & PM_{10} emissions to 2.57 lbs./hr, 11.26 TPY, 0.01 gr/dscf, and no visible emissions from (EP U03 / CE U03 / EU U03): Rail Receiving #1/ Conveying with Donaldson Model 232-RFW-12 Baghouse. Polk County Construction Permit # 0802 Modified also limits PM emissions to 1.54 lbs./hr, 6.73

TPY; PM_{10} emissions to 0.37 lb./hr, 1.64 TPY; and Opacity to 5% for the Rail Receiving #1 Fugitive Emissions: (EP U03F / EU U03).

Polk County Construction Permit # 2595 limits $PM/PM_{10}/PM_{2.5}$ emissions to 0.59 lb/hr, 2.58 TPY, and 0.10 gr/dscf; Opacity to <20% for Grain Storage-4 West Bean Tanks (EP U05, U05A / EU U05) with no control equipment.

Polk County Construction Permit # 2235 Modified limits PM / PM_{10} / $PM_{2.5}$ emissions to 1.132 lbs./hr, 0.55 TPY, and PM also to 0.10 gr/dscf; Opacity to <20% for (EP U07 / CE U07 / EU U01, U02, U04); West Side Truck Dump, East Side Truck Dump and Grain Conveyor with Donaldson Model 376 RFW-10 Baghouse; and 2.10 lbs./ hr., 1.84 TPY PM, 0.468 lbs./hr., 0.41 TPY PM_{10}, and 0.078 lbs./hr., 0.07 TPY $PM_{2.5}$ from EP U07F Truck Dump Fugitive Emissions.

Polk County Construction Permit # 2828 Modified limits PM, PM_{10}, and $PM_{2.5}$ emissions to 1.0 g/m^2 silt and Opacity to <20% for (EP U08 / EU BEN, EU MEL, EU OIL, EU HEX, EU FLO); Haul Roads- Truck Traffic Fugitive Emissions.

2. Opacity for the facility: Less than 40% opacity- Polk County Board of Health Rules and Regulations:

Chapter V, Article IV, Section 5-9.

<40 Opacity : (EP GP02 / EU GP02), EP GP013, EP GP015A, EP GP 021, EP GP022, EP GP023,

EP R01, EP R02, EP R04, EP R06,

<20% Opacity : (EP C09 / EU C09), (EP C09A / EU C09), (EP C10 /CE C10 / EU C10),

(EP C012 / CE C012 / EU C012), (EP C013 / EU C013), EP GP05A, EP GP06A, EP GP07,

EP GP016, EP GP019A/B/C/D, EP HR01A, EP HR02A, EP HR03, EP MP01, EP MP02A, EP MP06A,

EP MP07A, EP R03, EP R08, EP R09, EP U05, EP U05A, EP U07, EP U07F, and EP U08.

5% Opacity for: (EP MP010 / EU MP010), (EP U03F / EU U03),

0% Opacity for: (EP C06A / EU C06), (EP C06B / EU C06), (EU C07 / CE C07 / EP C07), (EP GP04A

/ CE GP04A / EU GP04).

No visible émissions allowed for : (EP U03 / CE U03 / EU U03).

3. NSPS: The facility shall comply with all applicable requirements of 40 CFR Part 60 Subpart DD-Standards of Performance for Grain Elevators. NSPS Subpart DD applies to EU GP04, wjhich is permitted under PC Const. Permit #: 1892 Modified #4; EU U03, which is permitted under Polk County Construction Permit Number 0802 Modified. These permits contain the appropriate subpart DD requirements.

(EP C10 /CE C10 / EU C10) Boiler with Low NOx Burners, 240 MMBtu/hr; 235,295 scf/hr natural gas or 1,715 gal/hr #2 fuel oil is subject to 40 CFR 60 Subpart Db-

Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.

(EP R09 / EU R09) Refinery Steam Generator is subject to 40 CFR 60 Subpart Dc-Standards of Performance for Small Industrial, Commercial, and Institutional Boilers and Process Heaters.

(EP /EU GP021, EP/ EU GP022, EP/ EU GP023) Extraction – Diesel Fire Pump (3x) are each subject to NSPS Subpart IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

4. NESHAP: The facility is subject to Subpart GGGG-National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production, promulgated April 12, 2001. The subpart will be annotated in the plantwide conditions as being applicable to the facility, and linked in its entirety in Appendix 1 of the Title V Permit.

The facility operates a diesel fired Caterpillar Limited Use Generator (EU C012), Natural Gas
Fired Emergency Lighting Generator (EU GP013), (EP /EU GP021, EP/ EU GP022, EP/ EU GP023)
Extraction – Diesel Fire Pump (3x) and a Detroit Diesel Allison Diesel Fire Pump at Refinery
(EU R08). This equipment is subject to National Emission Standard for Hazardous Air Pollutants for
Stationary Reciprocating Internal Combustion [40 CFR Part 63 Subpart ZZZZ]. Authority for
Requirement: 40 CFR Part 63 Subpart ZZZZ.

The facility operates a 175 MMBtu/hr steam generator combusting natural gas (EU C09); (EP C10 /CE C10 / EU C10) Boiler with Low NOx Burners, 240 MMBtu/hr; 235,295 scf/hr natural gas or 1,715 gal/hr #2 fuel oil; a 61.5 MMBtu Nebraska Model NS-E-58 natural gas fired Boiler #4: (EP C013 / EU C013), and a 13.853 MMBtu/hr Refinery Steam Generator combusting natural gas (EU R09). This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD]. Authority for Requirement: 40 CFR Part 63 Subpart DDDDD. The subpart will be linked in Appendix 1 of the Title V Permit.

5. PSD: Source is currently major (PSD) for VOC. If the facility makes any future qualifying changes, then they will need to submit a PSD permit application, i.e., applying for a significant increase for any pollutant.

7. NAAQS: Facility is located in an attainment area. Air modeling is not required at this time.

8. Title IV: Not applicable.

9. Stratospheric ozone: the only ozone depleting chemicals (regulated by 40 CFR 82) at the facility are those used for air conditioning, dehumidifying, and an ice machine. 40 CFR 82, Subpart F, applies to the disposal of appliances containing Class I or Class II substances (i.e. air conditioners).

10. PM-10:
DNR Construction Permit # 87-A-021-S1 limits PM emissions to 0.02 gr/dscf; PM_{10} emissions to 0.26 lbs./hr, from Fly Ash Transfer with Cyclone with fabric filter: (EU C06 / CE C06 / EP C06A).

DNR Construction Permit # 09-A-413 limits PM emissions to 0.02 gr/dscf; PM_{10} emissions to 0.26 lbs./hr, from Fly Ash Transfer with Cyclone with fabric filter: (EU C06 / CE C06B / EP C06B).

DNR Construction Permit # 87-A-022-S90 limits PM emissions to 0.08 lb./hr, 0.35 TPY from Fly Ash Silo with Flex-Kleen baghouse: (EP C07 / CE C07 / EU C07).

DNR Construction Permit # 88-A-203-S4 limits PM emissions to10.9 lb./hr ; 0.2 lb/MMBtu; PM_{10} emissions to 1.3 lbs./hr from the 175 MMBtu/hr Standby Boiler: (EU C09 / EP C09). All PM is expected to be PM_{10} or smaller.

DNR Construction Permit # 09-A-414-S1 limits PM emissions to 10.9 lb./hr ; 0.2 lb/MMBtu; PM_{10} emissions to 1.3 lbs./hr from the 175 MMBtu/hr Standby Boiler Bypass: (EU C09 / EP C09A). All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 1115 Modified #2 limits PM emissions to 0.42 lb./ hr, 0.11 TPY, and 0.10 gr/dscf; PM_{10}/PM2.5 emissions to 0.35 lb./hr, 0.09 TPY from (EP C012 / CE C012 / EU C012) 600 kW Caterpillar Model 3412 Diesel Generator, with Johnson Matthey HAPGuard CO Catalyst (CE-C012). All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 2530 limits PM and PM_{10} emissions to 0.46 lbs./hr, 2.00 TPY,
0.10 gr./dscf, and 0.6 lb/MMBtu from (EP C013 / EU C013) 61.5 MMBtu Nebraska Model NS-E-58 natural gas fired
boiler #4. All PM is expected to be PM_{10} or smaller.

Polk County Chapter V, Article VI, Section 5-16(7) limits PM emissions to 0.10 gr/dscf) from
2-500,000 bushel bean storage tanks constructed in 1963 and grandfathered from construction
permitting requirements: (EU GP02 / EP GP02). All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 1892 Modified #4 limits $PM_{2.5}$ / PM_{10} emissions to 0.48 lb./hr. PM
is limited to 0.01 gr/dscf by 40 CFR §60.302(b)(1) for 250 Ton per Hour Conveying to Process with
MAC Elevator Baghouse: (EP GP04A / CE GP04A / EU GP04). All PM is expected to be PM_{10} or
smaller.

Polk County Construction Permit # 1407 Modified #4 limits $PM_{2.5}$ / PM_{10} / PM emissions to 0.27 lb./hr, 0.96 TPY, and 0.10 gr/dscf for 275 Ton per Hour Escher Wyss Conditioning/Dehulling with Pneumafil Model RAF-II 11.5-320-12 Baghouse: (EP GP05A / CE GP05A / EU GP05). All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 1618 Modified #7 limits PM emissions to 0.10 gr/dscf; $PM_{2.5}$ / PM_{10} emissions to 0.675 lbs./hr for : (EP GP06A / CE GP06B / EU GP06A); 210 Ton per Hour Flaking Aspiration with Baghouse. All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 0103 Modified #4 limits PM emissions to 0.10 gr/dscf; $PM_{2.5}$ / PM_{10} emissions to 0.343 lbs./hr; from (EP GP07 / EU GP07); 250 Ton per hour Conveying to Extractor. All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 0092 Modified limits PM and PM_{10} emissions to 0.043 lbs./hr,
0.19 TPY, and 0.01 gr./dscf from Prep Building Central Vac System with Smoot Prep Vacuum: (EU
GP015A / CE GP015A / EP GP015A). All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 2343 Modified limits PM/PM_{10}/$PM_{2.5}$ emissions to 0.25 lb./hr;
1.10 TPY, and PM emissions to 0.10 gr/dscf; from (EP GP016 / CE GP016A / EU GP016); 275 Ton

per Hour Crown Model VSC130 Soybean Heater with Pneumafil Model RAF-II 11.5x320x12
Baghouse. All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 2823 Modified limits PM/PM10/PM2.5 emissions to 0.056 lb./hr; and PM emissions to 0.10 gr/dscf; for (EP GP019A, GP019B, GP019C, GP019D / CE GP019A, GP019B, GP019C, GP019D / EU GP019A, GP019B, GP019C, GP019D); 4 Cell Extraction Evapco Cooling Tower with Evapco Mist Eliminator 0.0005%. All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 4027 limits $PM_{10}/PM_{2.5}$ emissions to 0.16 lb./hr;, PM emissions to 0.10 gr/dscf; for (EP GP021 / EU GP021); Extraction – Diesel Fire Pump.

Polk County Construction Permit # 4028 limits $PM_{10}/PM_{2.5}$ emissions to 0.16 lb./hr;, PM emissions to 0.10 gr/dscf; for (EP GP022 / EU GP022); Extraction – Diesel Fire Pump.

Polk County Construction Permit # 4029 limits $PM_{10}/PM_{2.5}$ emissions to 0.16 lb./hr;, PM emissions to 0.10 gr/dscf; for (EP GP023 / EU GP023); Extraction – Diesel Fire Pump.

Polk County Construction Permit # 2531 Modified #2 limits $PM_{10}/PM_{2.5}$ emissions to 0.75 lb./hr; PM emissions to 0.10 gr/dscf; for [(EP HR01A / CE HR01A / EU GP011) Conveying to Aspirator/Whole Bean Aspiration; (EP HR01A / CE HR01A / EU HR01A) Secondary Aspiration, Hull Gravity Tables] with a Pneumafil 13.5x460x10 baghouse. All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 0100 Modified #7 limits PM, PM_{10} and $PM_{2.5}$ emissions to 0.29
lbs./hr, 0.59 TPY and also PM to 0.10 gr./dscf from 19.25 Ton per Hour Hull Grinding with
Donaldson Model 124RFW8 Baghouse: (EU HR02A / CE HR02A / EP HR02A). All PM is expected
to be PM_{10} or smaller.

Polk County Construction Permit # 2827 Modified #2 limits $PM_{10}/PM_{2.5}$ emissions to 0.65 lb./hr,
and PM to 0.10 gr/dscf from 14.5 Ton per Hour Pellet Cooler with Carter Day Model HV74 Cyclone: (EP HR03 / CE HR03 / EU HR03). All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 1626 Modified #5 limits $PM_{10}/PM_{2.5}$ emissions to 3.37 lb./hr PM to 0.10 gr/dscf; Opacity to <20% for Crown Desolventizer Toaster/Dryer Cooler with six cyclones: (EP MP01 / CE MP01A/B/C/D/E/F / EU MP01). All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 0090 Modified #6 limits PM emissions to 0.10 gr/dscf; $PM_{10}/PM_{2.5}$ to 0.67 lb/hr; Opacity to <20% for 250 Ton per Hour for (EP MP02A

/ CE MP02A / EU MP02A, MP03, MP04, MP08B, HR04); Meal Grinding / Meal Transfer / Flowability Agent Silo / Concrete Meal Storage Tank #2 / Hull Pellet Storage Tank with Pneumafil Model RAF-IS-320-10 Baghouse All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 2128 Modified #2 limits PM emissions to 0.75 lb/hr, 3.29 TPY, and
0.10 gr/dscf; $PM_{10}/PM_{2.5}$ to 0.75 lb/hr, 3.29 TPY; Opacity to <20% for (EP MP06A / CE MP06A /
EU MP05, MP06); Meal Conveying / Meal Loading with Pneumafil Model RAF-II-16-600-10
Baghouse. All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 0105 Modified #4 limits PM emissions to 0.10 gr/dscf; $PM_{10}/PM_{2.5}$ to 0.75 lb/hr, and Opacity to <20% from 250 Ton per Hour Meal Rail Loadout with MAC Model 144MPH416 Baghouse: (EU MP07 / CE MP07A / EP MP07A). All PM is expected to be PM_{10} or smaller

Polk County Construction Permit # 1775 limits PM emissions to 28.22 lbs./hr, 1.62 TPY and PM_{10}
emissions to 10.15 lbs./hr, 0.59 TPY, and 0.10 gr./dscf from Meal/Hull Unloading Pit: (EU MP010 /
EP MP010).

Polk County Construction Permit # 0366 does not contain emission limits for PM and PM_{10} (Polk
County Chapter V, Article VI, Section 5-14(3) limits PM emissions to 0.10 gr/dscf) from Filter Aid
Receiving/Storage with Flex-Kleen Model 84-BV-9 Baghouse: (EU R01 / CE R01 / EP R01). All
PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 0367 does not contain emission limits for PM nor PM_{10} (Polk
County Chapter V, Article VI, Section 5-14(3) limits PM emissions to 0.10 gr/dscf) from Bleaching
Clay Receiving/Storage with Flex-Kleen Model 84-BV-9 Baghouse: (EU R02 / CE R02 / EP R02).
All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 0414 Modified #2 limits PM and PM_{10} emissions to 0.90 lbs./hr,
3.94 TPY, and 0.10 gr./dscf from Slurry/Precoat Tanks with Ducon Model #3 Scrubber: (EU R03 /
CE R03 / EP R03). All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 0368 does not contain emission limits for PM and PM_{10} (Polk
County Chapter V, Article VI, Section 5-14(3) limits PM emissions to 0.10 gr/dscf) from Filter
Aid/Bleaching Clay Day Bins with Torrit Day Model 84-OB Bag Filter: (EU R04 / CE R04A / EP
R04). All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 0369 does not contain emission limits for PM and PM_{10} (Polk
County Chapter V, Article VI, Section 5-14(3) limits PM emissions to 0.10 gr/dscf) from Filter
Aid/Bleaching Clay Day Bins with Torrit Day Model 84-OB Bag Filter: (EU R04 / CE R04B / EP
R04). All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 2134 limits PM emissions to 0.45 lbs./hr, 1.97 TPY, 0.10 gr/dscf
and PM_{10} emissions to 0.225 lbs./hr, 0.99 TPY, and 0.10 gr./dscf from 6,000 gallon/minute, 3 cell
Refinery Cooling Tower: (EU R06 / EP R06).

Polk County Construction Permit # 3411 Modified limits PM10/PM2.5 emissions to 0.79 lb./hr and PM emissions to 0.10 gr/dscf; from (EP R08 / EU R08) 357 hp (18.2 gallons/hour) Detroit Diesel Allison Diesel Fire Pump at Refinery. All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 4006 limits $PM_{10}/PM_{2.5}$ emissions to 0.06 lb./hr and PM emissions to 0.6 lb/MMBtu from the Refinery Steam Generator, 13.853 MMBtu/hr: (EP R09 / EU R09). All PM is expected to be PM_{10} or smaller.

Polk County Construction Permit # 0802 Modified limits PM and PM_{10} emissions to 2.57 lbs./hr,
11.26 TPY, and 0.01 gr/dscf from Rail Receiving #1/ conveying with Donaldson Model 232-RFW-12
Baghouse: (EU U03 /CE U03 /EP U03.

Polk County Construction Permit # 0802 Modified limits PM emissions to 1.54 lbs/hr, 6.73 TPY
and PM_{10} emissions to 0.37 lbs./hr, 1.64 TPY (Polk County Chapter V, Article VI, Section 5-14(3)
limits PM emissions to 0.10 gr/dscf) from Rail Receiving #1 Fugitive Emissions: (EU U03 / EP
U03F).

Polk County Construction Permit # 2595 limits PM/ PM10 and PM2.5 emissions to 0.59 lbs./hr, 2.58
TPY, 0.10 gr/dscf (each limit per individual tank) from 4 West Grain Storage Tanks: (EU U05 /
EP U05, U05A).

Polk County Construction Permit # 2235 Modified limits PM / PM_{10} / $PM_{2.5}$ emissions to 1.132 lbs./hr, 0.55 TPY, and PM also to 0.10 gr/dscf; Opacity to <20% for (EP U07 / CE U07 / EU U01, U02, U04); West Side Truck Dump, East Side Truck Dump and Grain Conveyor with Donaldson Model 376 RFW-10 Baghouse; and 2.10 lbs./ hr., 1.84 TPY PM, 0.468 lbs./hr., 0.41 TPY PM_{10}, and 0.078 lbs./hr., 0.07 TPY $PM_{2.5}$ from EP U07F Truck Dump Fugitive Emissions.

Polk County Construction Permit # 2828 Modified limits PM, PM_{10}, and $PM_{2.5}$ emissions to 1.0 g/m^2 silt from (EP U08 / EU BEN, EU MEL, EU OIL, EU HEX, EU FLO); Haul Roads- Truck Traffic Fugitive Emissions.

C. <u>Monitoring consideration</u>:

<u>PM:</u>

Fly Ash Transfer with Cyclone with Fabric Filter: (EP C06A / CE C06A / EU C06) is an uncontrolled significant (22.78 TPY), controlled minor for PM (1.14 TPY). Under DNR's Monitoring Guidance Policy a Facility O&M Plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

Fly Ash Transfer with Cyclone with Fabric Filter: (EP C06B / CE C06B / EU C06) is an uncontrolled significant (22.78 TPY), controlled minor for PM (1.14 TPY). Under DNR's Monitoring Guidance Policy a Facility O&M Plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

Fly Ash Silo with Flex-Kleen baghouse: (EP C07 / CE C07 / EU C07) is an uncontrolled minor (7.0 TPY), controlled minor for PM (0.35 TPY). Under DNR's Monitoring Guidance Policy no O & M Plan and no test are required. However, due to the low emission limit, the facility O&M in the current Title V permit is retained. CAM does not apply, based on PTE.

175 MMBtu/hr / 193,000 ft^3/hr natural gas Standby Boiler (EP C09) and Bypass (EP C09A) without control equipment: (EP C09, EP C09A / EU C09) is an uncontrolled significant for PM (47.7 TPY). Under DNR's Monitoring Guidance Policy no O & M Plan and one test is required. The test will be waived for the boiler combusting natural gas because emission factors are highly established for natural gas, and actual emissions can be calculated through mass balance with a high level of certainty. All emission limits for EP C09 / EP C09A were calculated from AP-42/ WEBFIRE emission factors, so they are not expected to be exceeded. All PM is considered to be PM_{10} or smaller. CAM does not apply, because there is no control equipment.

Polk County Construction Permit # 3794 limits PM to 0.6 lb/MMBtu; PM_{10} emissions to 0.96 lb./hr, (natural gas) and 5.66 lb/hr (No. 2 fuel oil); from the (EP C10 /CE C10 / EU C10) Boiler with Low NOx Burners, 240 MMBtu/hr; 235,295 scf/hr natural gas or 1,715 gal/hr #2 fuel oil. PM PTE is 4.49 TPY (uncontrolled minor). Under DNR's Monitoring Guidance Policy and CAM, nothing is required. All PM is considered to be PM_{10} or smaller. CAM does not apply, because there is no PM control equipment.

600 kW Caterpillar Model 3412 Diesel Generator: (EP C012 / EU C012) is an uncontrolled minor for PM (0.11 TPY). Under DNR's Monitoring Guidance Policy and CAM, nothing is required. All PM is considered to be PM_{10} or smaller. CAM does not apply, because there is no PM control equipment.

(EP C013 / EU C013) 61.5 MMBtu Nebraska Model NS-E-58 natural gas fired boiler #4 is an uncontrolled minor for PM (2.0 TPY). Under DNR's Monitoring Guidance Policy and CAM, nothing is required. All PM is considered to be PM_{10} or smaller. CAM does not apply, because there is no control equipment.

2-500,000 Bushel Bean Storage Tanks without control equipment: (EP GP02 / EU GP02) is an uncontrolled minor (0.62 TPY) for PM. Under DNR's Monitoring Guidance Policy and CAM, nothing is required. All PM is considered to be PM_{10} or smaller. CAM does not apply, because there is no control equipment.

250 Ton per Hour Conveying to Process with MAC Elevator Baghouse: (EP GP04A / CE GP04A / EU GP04) is an uncontrolled minor (21.0 TPY), controlled minor (2.10 TPY) for PM. Under DNR's Monitoring Guidance Policy and CAM, nothing is required, but a Facility O&M Plan will be required for the baghouse. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

275 Ton per hour Escher Wyss Conditioning/Dehulling with Pneumafil Model RAF-II 11.5-320-12 Baghouse: (EP GP05A / CE GP05A / EU GP05) is an uncontrolled minor (19.2 TPY), controlled minor for PM (0.96 TPY). Under DNR's Monitoring Guidance Policy no O & M Plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

210 Ton per Hour Flaking Aspiration with Baghouse: (EP GP06A / CE GP06B / EU GP06A) is uncontrolled significant (29.57 TPY), controlled minor for PM (2.96 TPY). All PM is expected to be PM_{10} or smaller. Under DNR's Monitoring Guidance Policy a Facility O & M Plan and no tests are required. Construction permit requirements meet the facility O&M plan parameters, so it will not be required.

(EP GP07 / EU GP07); 250 Ton per hour Conveying to Extractor is an uncontrolled minor for PM (1.50 TPY). Under DNR's Monitoring Guidance Policy and CAM, nothing is required. All PM is considered to be PM_{10} or smaller. CAM does not apply, because there is no control equipment.

EP GP09A is a VOC / VOC HAP source only. No PM Monitoring nor CAM required.

0.32 MMBtu/hr natural gas Emergency Lighting Generator with no control: (EP GP013 / EU GP013) is an uncontrolled minor (0.01 TPY). Under DNR's Monitoring Guidance Policy no O & M Plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, because there is no control equipment.

Prep Building Central Vac System with Smoot Prep Vacuum: (EP GP015A / CE GP015A / EU GP015) is an uncontrolled minor (3.8 TPY), controlled minor for PM (0.19 TPY). Under DNR's Monitoring Guidance Policy no O & M plan and no test are required. Iowa Method 5 with backhalf particulate sampling required by Polk County Construction Permit # 1407 was satisfactorily completed on April 29, 2003. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

Polk County Construction Permit # 2343 Modified limits $PM/PM_{10}/PM_{2.5}$ emissions to 0.25 lb./hr; 1.10 TPY, and PM emissions to 0.10 gr/dscf; 275 Ton per Hour Crown Model VSC130 Soybean Heater with Pneumafil Model RAF-II 11.5x320x12 Baghouse. (EP GP016 / CE GP016A / EU GP016) is an uncontrolled significant (22.0 TPY), controlled

minor for PM_{10} (1.10 TPY). Under DNR's Monitoring Guidance Policy a Facility O & M Plan and no test are required. Method 5 with 202 backhalf particulate sampling required by Polk County Construction Permit # 2343 was satisfactorily completed on November 8, 2011. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

Polk County Construction Permit # 2823 Modified limits PM/PM10/PM2.5 emissions to 0.056 lb./hr; and PM emissions to 0.10 gr/dscf for (EP GP019A, GP019B, GP019C, GP019D / CE GP019A, GP019B, GP019C, GP019D / EU GP019A, GP019B, GP019C, GP019D); 4 Cell Extraction Evapco Cooling Tower with Evapco Mist Eliminator 0.0005%. EP GP019A/B/C/D/E is controlled minor (0.25 TPY) and uncontrolled minor (2.50 TPY). Under DNR's Monitoring Guidance Policy no O & M Plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, because of uncontrolled PTE.

Polk County Construction Permit # 4027 limits $PM_{10}/PM_{2.5}$ emissions to 0.16 lb./hr;, PM emissions to 0.10 gr/dscf; for (EP GP021 / EU GP021); Extraction – Diesel Fire Pump. EP GP021 is uncontrolled minor (0.04 TPY PM). Under DNR's Monitoring Guidance Policy no O & M Plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, because of uncontrolled PTE.

Polk County Construction Permit # 4028 limits $PM_{10}/PM_{2.5}$ emissions to 0.16 lb./hr;, PM emissions to 0.10 gr/dscf; for (EP GP022 / EU GP022); Extraction – Diesel Fire Pump. EP GP022 is uncontrolled minor (0.04 TPY PM). Under DNR's Monitoring Guidance Policy no O & M Plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, because of uncontrolled PTE.

Polk County Construction Permit # 4029 limits $PM_{10}/PM_{2.5}$ emissions to 0.16 lb./hr;, PM emissions to 0.10 gr/dscf; for (EP GP023 / EU GP023); Extraction – Diesel Fire Pump. EP GP023 is uncontrolled minor (0.04 TPY PM). Under DNR's Monitoring Guidance Policy no O & M Plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, because of uncontrolled PTE.

[(EP HR01A / CE HR01A / EU GP011) Conveying to Aspirator/Whole Bean Aspiration; (EP HR01A / CE HR01A / EU HR01A) Secondary Aspiration, Hull Gravity Tables] with a Pneumafil 13.5x460x10 baghouse is an uncontrolled significant (53.6 TPY), controlled minor for PM (2.68 TPY). Under DNR's Monitoring Guidance Policy a Facility O & M Plan and no test are required. Facility O&M Plan requirements are met by the construction permit requirements, so a separate Facility O&M Plan will not be required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

19.25 Ton per hour Hull Grinding with Donaldson Model 124RFW8 Baghouse: (EP HR02A / CE HR02A / EU HR02A) is an uncontrolled minor (11.8 TPY), controlled minor for PM (0.59 TPY). Under DNR's Monitoring Guidance Policy no O & M plan and no test are required. Iowa Method 5 with backhalf particulate sampling required by Polk County

Construction Permit # 0100 Modified #5 was satisfactorily completed on August 2, 2011. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

14.5 Ton per Hour Pellet Cooler with Carter Day Model HV74 Cyclone: (EP HR03 / CE HR03 / EU HR03) is controlled minor (2.85 TPY), and uncontrolled minor (14.25 TPY) for PM/PM_{10}/$PM_{2.5}$ emissions. Under DNR's Monitoring Guidance Policy no O & M plan and no test are required. Iowa Method 5 with backhalf particulate sampling required by DNR Construction Permit # 88-A-084 was satisfactorily completed on November 28, 2006. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

(EP MP01 / CE MP01A/B/C/D/E/F / EU MP01) Crown Desolventizer Toaster/Dryer Cooler with six cyclones) is an uncontrolled significant (73.90 TPY), controlled minor for PM (14.78 TPY). Under DNR's Monitoring Guidance Policy a Facility O & M plan and no test are required. Facility O&M Plan requirements are met by the construction permit requirements, so a separate Facility O&M Plan will not be required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

(EP MP02A / CE MP02A / EU MP02A, MP03, MP04, MP08B, HR04); Meal Grinding / Meal
Transfer / Flowability Agent Silo / Concrete Meal Storage Tank #2 / Hull Pellet Storage Tank with Pneumafil Model RAF-IS-320-10 Baghouse is an uncontrolled significant (61.6 TPY), controlled minor for PM and PM_{10} (3.08 TPY). Under DNR's Monitoring Guidance Policy a Facility O & M plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

Meal Conveying / Meal Loading with Pneumafil Model RAF-II-16-600-10 Baghouse (EP MP06A / CE MP06A / EU MP05, MP06) is uncontrolled significant for PM (65.8 TPY), controlled minor (3.29 TPY).
Under DNR's Monitoring Guidance Policy a Facility O & M plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

250 Ton per hour Meal Rail Loadout with MAC Model 144MPH416 Baghouse: (EP MP07A / CE MP07A / EU MP07) is an uncontrolled significant (65.8 TPY), controlled minor for PM (3.29 TPY). Under DNR's Monitoring Guidance Policy a Facility O & M plan and no test are required. Method 5 with 202 backhalf particulate sampling required by Polk County Construction Permit # 0105 Modified #2 was satisfactorily completed on May 19, 2011. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

Meal/Hull Unloading Pit and with no control equipment: (EP MP010 / EU MP010) is an uncontrolled minor (1.62 TPY). Under DNR's Monitoring Guidance Policy no O & M plan and no test are required. CAM does not apply, because there is no control equipment.

Filter Aid Receiving/Storage with Flex-Kleen Model 84-BV-9 Baghouse: (EP R01 / CE R01 / EU R01) permitted by Polk County Construction Permit # 0366 does not contain emission limits for PM and PM_{10}. Polk County Chapter V, Article VI, Section 5-14(3) limits

PM emissions to 0.10 gr/dscf, which when calculated out results in the unit being classified as an uncontrolled significant (45.0 TPY), controlled minor (2.25 TPY). Under DNR's Monitoring Guidance Policy a Facility O & M plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

Bleaching Clay Receiving/Storage with Flex-Kleen Model 84-BV-9 Baghouse: (EP R02 / CE R02 / EU R02), permitted by Polk County Construction Permit # 0367, does not contain emission limits for PM nor $PM_{10.}$ Polk County Chapter V, Article VI, Section 5-14(3) limits PM emissions to 0.10 gr/dscf, which when calculated out results in the unit being classified as an uncontrolled significant (63.95 TPY), controlled minor (3.20 TPY). Under DNR's Monitoring Guidance Policy a Facility O & M plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

Slurry/Precoat Tanks with Ducon Model #3 Scrubber: (EP R03 / CE R03 / EU R03) is an uncontrolled significant (39.4 TPY), controlled minor for PM (3.94 TPY). Under DNR's Monitoring Guidance Policy a Facility O & M plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

Filter Aid/Bleaching Clay Day Bins with Torrit Day Model 84-OB Bag Filter: (EP R04 / CE R04A / EU R04) permitted by Polk County Construction Permit # 0368 does not contain emission limits for PM and $PM_{10.}$ Polk County Chapter V, Article VI, Section 5-14(3) limits PM emissions to 0.10 gr/dscf, which when calculated out results in the unit being classified as an uncontrolled significant (78.8 TPY), controlled minor (3.94 TPY). Under DNR's Monitoring Guidance Policy a Facility O & M plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

Filter Aid/Bleaching Clay Day Bins with Torrit Day Model 84-OB Bag Filter: (EP R04 / CE R04B / EU R04) permitted by Polk County Construction Permit # 0369 does not contain emission limits for PM and $PM_{10.}$ Polk County Chapter V, Article VI, Section 5-14(3) limits PM emissions to 0.10 gr/dscf, which when calculated out results in the unit being classified as an uncontrolled significant (78.8 TPY), controlled minor (3.94 TPY). Under DNR's Monitoring Guidance Policy a Facility O & M plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE.

6,000 gallon per minute, 3 cell Refinery Cooling Tower with no control equipment: (EP R06 / EU R06) is an uncontrolled minor (1.97 TPY). Under DNR's Monitoring Guidance Policy no O & M plan and no test are required. CAM does not apply, because there is no control equipment.

Polk County Construction Permit # 3411 Modified limits PM10/PM2.5 emissions to 0.79 lb./hr, which equates to a PTE of 0.20 TPY (uncontrolled minor), and PM emissions to 0.10 gr/dscf; from (EP R08 / EU R08) 357 hp (18.2 gallons/hour) Detroit Diesel Allison Diesel Fire Pump at Refinery. Under DNR's Monitoring Guidance Policy no O & M plan and no test are required. All PM is considered to be PM10 or smaller. CAM does not apply, because there is no control equipment.

Refinery Steam Generator, 13.853 MMBtu/hr: (EP R09 / EU R09) is uncontrolled minor (0.26 TPY). Under DNR's Monitoring Guidance Policy no O & M plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, because there is no control equipment.

Rail Receiving #1/ conveying with Donaldson Model 232-RFW-12 Baghouse: (EP U03 / CE U03 / EU U03) is an uncontrolled major (225.5 TPY), controlled minor for PM (11.26 TPY). Under DNR's Monitoring Guidance Policy a Facility O & M plan and one test are required. Method 5 & Method 202 particulate sampling required by 04-TV-020R1 was satisfactorily completed on 2/17, 18 /2016: (result <0.157 lbs/hr PM, limit = 2.57 lb/hr). A 40 CFR Part 51, Appendix M, Method 202 in conjunction with a Method 201A test will be required one time during the R2 permit term, in order to show continued compliance with the limits. All PM is considered to be PM_{10} or smaller. A CAM Plan is

indicated, because of PTE, and will be required in lieu of the Facility O&M Plan. ADM's approved CAM Plan consists of using Visible Emission Observations and Pressure Drop Measurements as indicators.

4 West Grain Storage Tanks with no control equipment: (EP U05, U05A / EU U05) is an uncontrolled minor source (2.58 TPY x 4= 10.32 TPY). All PM is considered to be PM_{10} or smaller. Under DNR's Monitoring Guidance Policy no Facility O & M plan and no test are required. CAM does not apply, based on PTE and because it is an uncontrolled source.

West Side Truck Dump / East Side Truck Dump / Grain Conveyor with Donaldson Model 376 RFW-10 Baghouse: (EP U07 / CE U07 / EU U01 / U02 / U04) is an uncontrolled minor (11.0 TPY), controlled minor for PM (0.55 TPY). Under DNR's Monitoring Guidance Policy no O & M plan and no test are required. All PM is considered to be PM_{10} or smaller. CAM does not apply, based on PTE. Truck Dump Fugitive Emissions (EP U07F) are uncontrolled minor (1.84 TPY) for PM. No O&M Plan, no test, and no CAM indicated, based on PTE.

Polk County Construction Permit # 2828 Modified limits PM, PM_{10}, and $PM_{2.5}$ emissions to 1.0 g/m^2 silt from (EP U08 / EU BEN, EU MEL, EU OIL, EU HEX, EU FLO); Haul Roads- Truck Traffic Fugitive Emissions. EP U08 is uncontrolled minor (7.86 TPY) for PM, uncontrolled minor (1.57 TPY) for PM_{10}, and uncontrolled minor (0.39 TPY) for $PM_{2.5}$. As this is a fugitive emission source an O & M plan and testing will not be required. To ensure compliance, operating conditions from Polk County Construction Permit #2828 Modified will be placed into the Title V permit. This permit requires weekly road sweeping/ vacuuming, and a maximum speed limit of 5 MPH. CAM does not apply, because there is no control equipment and minor PTE levels.

Opacity:

EP C06A is subject to 0% opacity under DNR Construction Permit Number 87-A-021-S1. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 $\geq$ 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 observation of the violation. Emission observations will not be required when EU C06 is not operated for an entire week. Date and time of equipment shutdown and startup shall be noted in the equipment log book.

EP C06B is subject to 0% opacity under DNR Construction Permit Number 09-A-413. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation. Emission observations will not be required when EU C06 is not operated for an entire week. Date and time of equipment shutdown and startup shall be noted in the equipment log book.

EP C07 is subject to 0% opacity under DNR Construction Permit Number 87-A-022-S90. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation. Emission observations will not be required when EU C07 is not operated for an entire week. Date and time of equipment shutdown and startup shall be noted in the equipment log book.

EP C09 and C09A are subject to 20% opacity under DNR Construction Permit Number 88-A-203-S4 and 09-A-414-S1. This EP will not be required to be visually checked for observable emissions, because visible emissions are not expected from the boiler when combusting natural gas.

EP C10 is subject to <20% opacity under Polk County Construction Permit Number 3794. This EP will only be required to be visually checked for observable emissions when combusting #2 Fuel Oil, because visible emissions are not expected from the boiler when combusting natural gas.

EP C012 is subject to < 20% opacity under Polk County Construction Permit Number 1115 Modified #2. This EP will be required to be visually checked for observable emissions once every month by a designated observer, in order to verify compliance. 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 observation of the violation. This emission unit is an emergency generator which is not operated on a weekly basis. The logbook shall be notated with a negative declaration of operation at the end of each calendar month during which no operation occurs.

EP C013 is subject to ≤20% opacity under Polk County Construction Permit Number 2530. VEs are not expected as this is a natural gas fired boiler. The EP will not be required to conduct visible emission observations.

EP GP02 is subject to < 40% opacity under Polk County Board of Health Rules and Regulations Chapter V, Section 5-9. Opacity is not expected to be 40% or greater from this type equipment at any time, so checking for VEs will not be required for this equipment.

EP GP04A is subject to 0% opacity under Polk County Construction Permit Number 1892 Modified #4 and 40 CFR §60.302(b)(2). EP GP04A shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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 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.

EP GP05A is subject to < 20% opacity under Polk County Construction Permit Number 1407 Modified #4. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP GP06A is subject to < 20% opacity under Polk County Construction Permit Number 1618 Modified #7. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP GP07 is subject to < 20% opacity under Polk County Construction Permit Number 0103 Modified #4. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP GP09A is a VOC / VOC HAP source only. No VE checks are required.

EP GP013 is subject to < 40% opacity under Polk County Board of Health Rules and Regulations Chapter V, Section 5-9. This EP is an emergency generator operating on

natural gas. Natural gas fuel is not expected to produce any visible emissions, and hence VE checks will not be required.

EP GP015A is subject to < 40% opacity under Polk County Board of Health Rules and Regulations Chapter V, Section 5-9. Opacity is not expected to be able to reach 40% or greater from this process, so VE checks will not be required.

EP GP016 is subject to < 20% opacity under Polk County Construction Permit Number 2343 Modified. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP GP019A/B/C/D is subject to < 20% opacity under Polk County Construction Permit Number 2823 Modified. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP GP021 is subject to < 40% opacity under Polk County Board of Health Rules and Regulations Chapter V, Section 5-9. This is an emergency fire pump, so testing for VEs will not be required.

EP GP022 is subject to < 40% opacity under Polk County Board of Health Rules and Regulations Chapter V, Section 5-9. This is an emergency fire pump, so testing for VEs will not be required.

EP GP023 is subject to < 40% opacity under Polk County Board of Health Rules and Regulations Chapter V, Section 5-9. This is an emergency fire pump, so testing for VEs will not be required.

EP HR01A is subject to < 20% opacity under Polk County Construction Permit Number 2531 Modified #2. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP HR02A is subject to < 20% opacity under Polk County Construction Permit Number 0100 Modified #7. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP HR03 is subject to < 20% opacity under Polk County Construction Permit Number 2827 Modified #2. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP MP01 is subject to < 20% opacity under Polk County Construction Permit Number 1626 Modified #5. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP MP02A is subject to < 20% opacity under Polk County Construction Permit Number 0090 Modified #6. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP MP06A is subject to < 20% opacity under Polk County Construction Permit Number 2128 Modified #2. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP MP07A is subject to < 20% opacity under Polk County Construction Permit Number 0105 Modified #4. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP MP010 is subject to < 5% opacity under Polk County Construction Permit Number 1775. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 >5% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

EPs R01, R02 are subject to < 40% opacity under Polk County Board of Health Rules and Regulations Chapter V, Section 5-9. These EPs will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 ≥ 40% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

EP R03 is subject to < 20% opacity under Polk County Construction Permit Number 0414 Modified #2. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP R04 is subject to < 40% opacity under Polk County Board of Health Rules and Regulations Chapter V, Section 5-9. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 ≥ 40% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

EP R06 is subject to < 40% opacity under Polk County Board of Health Rules and Regulations Chapter V, Section 5-9. This EP is a cooling tower. No visible emissions are expected and visible emission observations will not be required.

EP R08 is subject to < 20% opacity under Polk County AQD Construction Permit # 3411 Modified. This EP will be required to be visually checked for observable emissions once every month by a designated observer, in order to verify compliance. 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 observation of the violation. This emission unit is an emergency fire pump which is not operated on a weekly basis.

EP R09 is subject to < 20% opacity under Polk County Construction Permit Number 4006. This EP is a natural gas fired boiler. No visible emissions are expected and visible emission observations will not be required.

EP U03 is subject to an opacity standard of None Allowed under Polk County Construction Permit Number 0802 Modified. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

EP U03F is subject to < 5% opacity under Polk County Construction Permit Number 0802 Modified. This EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 ≥ 5% is observed, this would be a violation and corrective action

will be taken as soon as possible, but no later than eight hours from observation of the violation.

EPs U05, U05A are subject to < 20% opacity under Polk County Construction Permit Number 2595. These EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP U07 and EP U07F are subject to < 20% opacity under Polk County Construction Permit Number 2235 Modified. These EP will be required to be visually checked for observable emissions once every week by a designated observer, in order to verify compliance. 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 observation of the violation.

EP U08 is subject to <20% opacity under Polk County Construction Permit Number 2828 Modified. This EP is a fugitive source (road dust emissions) which is not required to perform any monitoring by the construction permit. Fugitive road dust control requirements in the construction permit are expected to minimize visible emissions. These conditions will be placed into the Operating Permit.

VOC:

600 kW Caterpillar Model 3412 Limited Use Generator (EP C012 / EU C012): is an uncontrolled minor (0.13 TPY). Under DNR's Monitoring Guidance Policy no test and no O & M Plan is required. The emission unit is uncontrolled for VOC; therefore, CAM is not applicable.

(EP C013 / EU C013) 61.5 MMBtu Nebraska Model NS-E-58 natural gas fired boiler #4 is uncontrolled minor (1.45 TPY) for VOC. Under DNR's Monitoring Guidance Policy no test and no O & M Plan is required. The emission unit is uncontrolled for VOC; therefore, CAM is not applicable.

(EP GP09A / CE GP09A / EU GP09, GP014, MP01); (EU GP09) Extractor; 230 tph (Solvent Bubble), (EU MP01) Desolventizer/Toaster/Dryer/Cooler (DTDC); 215 tph, (EU GP014) 2-30,000 gallon Hexane Tanks with a Mineral Oil Absorption System limits VOC to 788.0 tons per 12-month period rolled monthly and 0.140 gal VOC lost/ ton of soybeans processed by DNR Construction Permit Number 07-A-1078-P2. This limit

makes the facility an uncontrolled major, controlled major for VOC. Under DNR's Monitoring Guidance Policy two tests and an Agency O & M Plan are required. CAM is applicable. The recordkeeping, reporting, solvent loss calculations, and compliance demonstrations required by 40 CFR 63 subpart GGGG will be sufficient to ensure compliance with the applicable emission limits; therefore, no testing will be required and CAM is required in lieu of the Agency O&M Plan. The facility CAM plan consists of the recordkeeping, reporting, solvent loss calculations, and compliance demonstrations required by 40 CFR 63 subpart GGGG and the monitoring of the mineral oil flow rate and temperature as indicators for compliance.

The following EP's either: a) do not emit VOCs or b) do not have short term limits for VOC, and therefore will not have monitoring or CAM requirements: C06A, C06B, C07, C09, C09A, C10, GP02, GP04A, GP05A, GP06A, GP07, GP013, GP015A, GP016, GP019A/B/C/D, GP 021, GP 022, GP 023, HR01A, HR02A, HR03, (EP MP01 / CE MP01A/B/C/D/E/F / EU MP01), MP02A, MP06A, MP07A, MP010, R01, R02, R03, R04, R06, R08, R09, U03, U03F, U05, U05A, U07, U07F, and U08.

HAPs:

(EP GP09A / CE GP09A / EU GP09, GP014, MP01); (EU GP09) Extractor; 230 tph (Solvent Bubble), (EU MP01) Desolventizer/Toaster/Dryer/Cooler (DTDC); 215 tph, (EU GP014) 2-30,000 gallon Hexane Tanks with a Mineral Oil Absorption System limits Total HAP to Compliance Ratio≤ 1.00 by DNR Construction Permit Number 07-A-1078-P2 and 40 CFR 63 subpart GGGG. This calculates out to an uncontrolled major, controlled major for HAP (490.53 TPY Hexane). Under DNR's Monitoring Guidance Policy two tests and an Agency O & M Plan are required. CAM is applicable. The recordkeeping, reporting, solvent loss calculations, and compliance demonstrations required by 40 CFR 63 subpart GGGG will be sufficient to ensure compliance with the applicable emission limits; therefore, no testing will be required and CAM is required in lieu of the Agency O&M Plan.

HAP emissions from the oil extraction process are determined as the n-Hexane fraction of the total commercial hexane solvent loss from the facility. The facility is subject to an emissions standard proposed by the administrator after November 15, 1990 pursuant to section 112 of the Clean Air Act for this process, specifically National Emissions Standard for Hazardous Air Pollutants (NESHAP), Subpart GGGG. The oil extraction process is exempt from CAM [40 CFR 64.2(b)(1)(a)] for this HAP emission limitation.

The following EP's either: a) do not emit HAPs or b) do not have short term limits for HAPs, and therefore will not have monitoring or CAM requirements: C06A, C06B, C07, C09, C09A, C10, C012, C013, GP02, GP04A, GP05A, GP06A, GP07, GP013, GP015A, GP016, GP019A/B/C/D, GP 021, GP 022, GP 023, HR01A, HR02A, HR03, (EP MP01 / CE MP01A/B/C/D/E/F / EU MP01), MP02A, MP06A, MP07A, MP010, R01, R02, R03, R04, R06, R08, R09, U03, U03F, U05, U05A, U07, U07F, and U08.

CO:

Natural Gas standby boiler without control equipment (EP C09, C09A / EU C09): is an uncontrolled minor (19.5 TPY). Under DNR's Monitoring Guidance Policy no test and no O & M Plan is required. Construction Permits 88-A-203-S4 and 09-A-414-S1 specify a formula to calculate and demonstrate compliance with the CO emission limit. The emission unit is uncontrolled for CO; therefore, CAM is not applicable.

Polk County Construction Permit # 3794 limits CO to 8.88 lbs/hr from the (EP C10 /CE C10 / EU C10) Boiler with Low NOx Burners, 240 MMBtu/hr; 235,295 scf/hr natural gas or 1,715 gal/hr #2 fuel oil. CO PTE is 38.90 TPY (uncontrolled minor). Under DNR's Monitoring Guidance Policy no test and no O & M Plan is required. CAM is not applicable because of PTE.

Diesel Fired 600 kW Caterpillar Model 3412 Diesel Generator (EP C012 / CE C012 / EU C012): is an uncontrolled minor (1.33 TPY) and controlled minor (0.22 TPY). Under DNR's Monitoring Guidance Policy no test and no O & M Plan is required. CAM is not applicable.

(EP C013 / EU C013) 61.5 MMBtu Nebraska Model NS-E-58 natural gas fired boiler #4 is uncontrolled minor (22.08 TPY) for CO. Under DNR's Monitoring Guidance Policy no test and no O & M Plan is required. The emission unit is uncontrolled for CO; therefore, CAM is not applicable.

The following EP's either: a) do not emit CO or b) do not have short term limits for CO, and therefore will not have monitoring or CAM requirements: C06A, C06B, C07, GP02, GP04A, GP05A, GP06A, GP07, GP09A, GP013, GP015A, GP016, GP019A/B/C/D, GP 021, GP 022, GP 023, HR01A, HR02A, HR03, MP01, MP02A, MP06A, MP07A, MP010, R01, R02, R03, R04, R06, R08, R09, U03, U03F, U05, U05A, U07, U07F, and U08.

NO_x

Natural Gas fired Standby Boiler without control equipment (EP C09, C09A / EU C09): is an uncontrolled major (142.8 TPY). Under DNR's Monitoring Guidance Policy one test and no O & M Plan is required. The emission factors for natural gas combustion are well established and mass balance calculations are sufficient to establish compliance with the emission limits; therefore, no testing will be required. All emission limits for EP C09 / EP C09A were calculated from AP-42/ WEBFIRE emission factors, so they are not expected to be exceeded. The emission unit is uncontrolled for NOx; therefore, CAM is not applicable.

Polk County Construction Permit # 3794 limits NOx to 8.64 lb/hr (natural gas), 39.40 TPY (total) (controlled minor). The Low NOx Burners control efficiency is 80% for a PTE of 49.25 TPY NOx, (uncontrolled minor), from the (EP C10 /CE C10 / EU C10) Boiler with Low NOx Burners, 240 MMBtu/hr; 235,295 scf/hr natural gas or 1,715 gal/hr #2 fuel oil.

NOx emissions are being monitored by a CEM, ME C10. CAM is not applicable due to PTE.

Diesel Fired 600 kW Caterpillar Model 3412 Diesel Generator (EP C012 / EU C012): is an uncontrolled minor (4.88 TPY). Under DNR's Monitoring Guidance Policy no test and no O & M Plan is required. The emission unit is uncontrolled for NOx; therefore, CAM is not applicable.

(EP C013 / EU C013) 61.5 MMBtu Nebraska Model NS-E-58 natural gas fired boiler #4 is uncontrolled minor (26.28 TPY) for NOx. Under DNR's Monitoring Guidance Policy no test and no O & M Plan is required. The emission unit is uncontrolled for NOx; therefore, CAM is not applicable.

The following EP's either: a) do not emit NOx or b) do not have short term limits for NOx, and therefore will not have monitoring or CAM requirements: C06A, C06B, C07, GP02, GP04A, GP05A, GP06A, GP07, GP09A, GP013, GP015A, GP016, GP019A/B/C/D, GP 021, GP 022, GP 023, HR01A, HR02A, HR03, MP01, MP02A, MP06A, MP07A, MP010, R01, R02, R03, R04, R06, R08, R09, U03, U03F, U05, U05A, U07, U07F, and U08.

SO_2

Natural Gas fired Standby Boiler without control equipment (EP C09, C09A / EU C09): is an uncontrolled minor (0.44 TPY) for SO_2. Under DNR's Monitoring Guidance Policy no test and no O & M Plan is required. The emission factors for natural gas combustion are well established and mass balance calculations are sufficient to establish compliance with the emission limits; therefore, no testing will be required. All emission limits for EP C09 / EP C09A were calculated from AP-42/ WEBFIRE emission factors, so they are not expected to be exceeded. The emission unit is uncontrolled for SO_2; therefore, CAM is not applicable.

Boiler with Low NOx Burners, 240 MMBtu/hr; 235,295 scf/hr natural gas or 1,715 gal/hr #2 fuel oil.
(EP C10 /CE C10 / EU C10): is limited to 500 PPMv (natural gas) and 0.5 lb/MMBtu (No. 2 fuel oil), SO_x is uncontrolled minor (1.38 TPY). Under DNR's Monitoring Guidance Policy no test and no O & M Plan is required. The emission factors for natural gas and #2 fuel oil combustion are well established and mass balance calculations are sufficient to establish compliance with the emission limits; therefore, no testing will be required. The emission unit is uncontrolled for SO_2; therefore, CAM is not applicable.

Diesel Fired 600 kW Caterpillar Model 3412 Diesel Generator (EP C012 / EU C012): is an uncontrolled minor (0.002 TPY). Under DNR's Monitoring Guidance Policy no test and no O & M Plan is required. The emission unit is uncontrolled for SO_2; therefore, CAM is not applicable.

(EP C013 / EU C013) 61.5 MMBtu Nebraska Model NS-E-58 natural gas fired boiler #4 is uncontrolled minor (0.16 TPY) for SO_2. Under DNR's Monitoring Guidance Policy no test and no O & M Plan is required. The emission unit is uncontrolled for SO_2; therefore, CAM is not applicable.

The following EP's either: a) do not emit SO_2 or b) do not have short term limits for SO_2, and therefore will not have monitoring or CAM requirements: C06A, C06B, C07, GP02, GP04A, GP05A, GP06A, GP07, GP09A, GP013, GP015A, GP016, GP019A/B/C/D, GP 021, GP 022, GP 023, HR01A, HR02A, HR03, MP01, MP02A, MP06A, MP07A, MP010, R01, R02, R03, R04, R06, R08, R09, U03, U03F, U05, U05A, U07, U07F, and U08.

D. Facility Proposed Limits: The facility shall not process more than 1,971,000 tons of soybeans per 12-month period, rolled monthly. The facility shall record and maintain daily records of the number of tons of soybeans processed.
Authority for Requirement: Polk County Construction Permit Numbers: 1892 Modified #4; 1407 Modified #4; 1618 Modified #7; 0103 Modified #4; 2343 Modified; 2531 Modified #2; 0100 Modified #7; 2827 Modified #2; 1626 Modified #5; 0090 Modified #6; 2128 Modified #2; 0105 Modified #4;
0414 Modified #2; and 2235 Modified.

E. Responsible Official: Mr. Dan James, Complex Manager, is in charge of a principle business function; that of selling oil and by-products produced from soybeans and making a profit for ADM. She meets the definition of Responsible Official found in 567 IAC 24.100.

F. Compliance: The facility has fulfilled its requirements under Consent Decree Number 03-CV-2006.
The facility completed the upgrade to the extractor condenser in 2004, conducted the two required audits
in 2003 and 2007, and submitted dispersion modeling which was approved by DNR in 2009. Therefore,
conditions of the Consent Decree will not be placed into this Title V Operating Permit.

Iowa Department of Natural Resources
Draft Title V Operating Permit

Name of Permitted Facility: ADM- Des Moines Soybean
Facility Location: 1935 E. Euclid Ave., Des Moines, IA 50313
Air Quality Operating Permit Number: 04-TV-020R2
Expiration Date: Date

Permit Renewal Application Deadline: Date-6 Months

EIQ Number: 92-6313
Facility File Number: 77-01-045

Responsible Official
Name: Mr. Dan James
Title: Complex Manager
Mailing Address: 1935 E. Euclid Avenue
Des Moines, Iowa 50313
Phone Number: 515-802-9787

Permit Contact Person for the Facility
Name: Mr. Thomas Teav
Title: Environmental Coordinator
Mailing Address: 1935 E. Euclid Avenue
Des Moines, Iowa 50313
Phone Number: 515-263-3283

This permit is issued in accordance with 567 Iowa Administrative Code Chapter 24, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources

Corey McCoid, Supervisor of Air Operating Permits Section Date

Table of Contents

Abbreviations

acfm.....actual cubic feet per minute
AERMOD……..AMS/EPA Regulatory Model
AQD……Polk County Public Works- Air Quality Division
CAS……....Chemical Abstract Service Registry
CE .....Control Equipment
CEM.....Continuous Emission Monitor
CFR.....Code of Federal Regulation
DNR.....Iowa Department of Natural Resources
^{o}F.....degrees Fahrenheit
EIQ.....Emissions Inventory Questionnaire
EP……Emission Point
EU……...Emission Unit
gr./dscf .....grains per dry standard cubic foot
IAC.....Iowa Administrative Code
MACT…….Maximum Achievable Control Technology
µg/m^{3}……..Micrograms per Cubic Meter
MM BTU/ Hr……..Million British Thermal Units per Hour
MSDS…….Material Safety Data Sheet(s)
MVAC.....Motor Vehicle Air Conditioner
NAICS.....North American Industry Classification System
NESHAP…….National Emission Standards for Hazardous Air Pollutants
NSPS .....New Source Performance Standard
ppmv……..…parts per million by volume
psia……..pounds per square inch absolute
lb./hr .....pounds per hour
lb./MMBtu .....pounds per Million British thermal units
SCC.....Source Classification Codes
scfm…….standard cubic feet per minute
sdcfm……...standard dry cubic feet per minute
SIC……..Standard Industrial Classification
TPY……Tons Per Year
USEPA.....United States Environmental Protection Agency

Pollutants

PM.....Particulate Matter
PM_{10}……...Particulate Matter ten microns or less in diameter
$PM_{2.5}$……...Particulate Matter 2.5 microns or less in diameter
SO_2 .....Sulfur dioxide
NO_x .....Nitrogen Oxides
VOC(s).....Volatile Organic Compound(s)
CO .....Carbon Monoxide
HAP(s) .....Hazardous Air Pollutant(s)

I. Facility Description and Equipment List

Facility Name: ADM- Des Moines Soybean
Permit Number: 04-TV-020R2

Facility Description: Soybean Oil Mills (SIC 2075)
Soybean oil, refined, crushing mills (NAICS 311224)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County / DNR Construction Permit Number
C06A	C06	Fly Ash Transfer	87-A-021-S1
C06B	C06	Fly Ash Transfer	09-A-413
C07	C07	Fly Ash Silo	87-A-022-S90
C09	C09	Standby Boiler	88-A-203-S4
C09A	C09	Standby Boiler By-Pass	09-A-414-S1
C10	C10	Boiler with Low NOx Burners, 240 MMBtu/hr	3794
C012	C012	Caterpillar Model 3412 Diesel Generator	1115 Modified #2
C013	C013	61.5 MMBtu Nebraska Boiler	2530
GP02	GP02	(2) – 500,000 bushel Bean Storage Tanks	Grandfathered
GP04A	GP04	Conveying to Process	1892 Modified #4
GP05A	GP05	Escher Wyss Conditioning / Dehulling	1407 Modified #4
GP06A	GP06A	Flaking Aspiration	1618 Modified #7
GP07	GP07	Conveying to Extractor	0103 Modified #4
GP09A	GP09	Extractor (Solvent Bubble)	07-A-1078-P2
	GP014	(2)-30,000 gallon Hexane Tanks	
	MP01	Desolventizer Toaster Dryer Cooler (DTDC)	
GP013	GP013	Natural Gas Emergency Lighting Generator	Exempt
GP015A	GP015A	Prep Building Central Vacuum System	0092 Modified
GP016	GP016	Crown Model VSC130 Soybean Heater	2343 Modified
GP019 A/B/C/D	GP019 A/B/C/D	4 Cell Extraction Evapco Cooling Tower	2823 Modified
GP021	GP021	Extraction – Diesel Fire Pump	4027
GP022	GP022	Extraction – Diesel Fire Pump	4028
GP023	GP023	Extraction – Diesel Fire Pump	4029
HR01A	GP011	Conveying to Aspirator / Whole Bean Aspiration	2531 Modified #2
	HR01A	Secondary Aspiration / Hull Gravity Tables	
HR02A	HR02A	Hull Grinding	0100 Modified #7
HR03	HR03	Pellet Cooler	2827 Modified #2
MP01	MP01	Crown Desolventizer Toaster Dryer Cooler (DTDC)	1626 Modified #5
MP02A	MP02A	Meal Grinding	0090 Modified #6
	MP03	Meal Transfer	
	MP04	Flowability Agent Silo	
	MP08B	Concrete Meal Storage Tank #2	
	HR04	Hull Pellet Storage Tank	

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County / DNR Construction Permit Number
MP06A	MP05	Meal Conveying	2128 Modified #2
	MP06	Meal Loading	
MP07A	MP07	Meal Rail Loadout	0105 Modified #4
MP010	MP010	Meal/ Hull Unloading Pit	1775
R01	R01	Filter Aid Receiving / Storage	0366
R02	R02	Bleaching Clay Receiving / Storage	0367
R03	R03	Slurry / Precoat Tanks	0414 Modified #2
R04	R04	Filter Aid / Bleaching Clay Day Bins	1767
R06	R06	3 Cell Refinery Cooling Tower	2134
R08	R08	Detroit Diesel Allison Diesel Fire Pump at Refinery	3411 Modified
R09	R09	Refinery – Steam Generator	4006
U03	U03	Rail Receiving # 1 and Conveying	0802 Modified
U03F	U03	Rail Receiving #1 Fugitive Emissions	0802 Modified
U05, U05A	U05	Grain Storage – 4 West Bean Tanks	2595
U07	U01	West Truck Truck Dump	2235 Modified
	U02	East Truck Truck Dump	
	U04	Grain Conveyor	
U07F	U01, U02	Truck Dump Fugitive Emissions	2235 Modified
U08	BEN	Haul Roads- Truck Traffic Fugitive Emissions: Soybean Receiving	2828 Modified
	MEL	Haul Roads- Truck Traffic Fugitive Emissions: Meal/ Hull Truck Loadout	
	OIL	Haul Roads- Truck Traffic Fugitive Emissions: Oil Loadout	
	HEX	Haul Roads- Truck Traffic Fugitive Emissions: Hexane Receiving	
	FLO	Haul Roads- Truck Traffic Fugitive Emissions: Flowability Agent Receiving	

Insignificant Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
IA3	**Refinery Bag Unloading System**
IA5	**(2) 15,000 Gallon No. 2 Fuel Oil Tanks**
IA6	**3,196 Gallon Dilute Acid Tank**
IA7	**10,000 Gallon Concentrated Acid Tank**
IA8	**Yard Waste Hopper**
IA10	**790 Gallon Primary Boiler Lube Oil Tank**
IA11	**15,863 Gallon Wastewater Tank**
IA12	**Vent Off Sewer Line**
IA14	**CoGen Cooling Tower**
IA16	**Hot Gas Generator**
IA17	**(2) 15,000 Gallon Cogen No. 2 Fuel Oil Tanks**
IA18	**(1) 300 Gallon Cogen Cat No. 2 Fuel Oil Tank**

II. Plant-Wide Conditions

Facility Name: ADM- Des Moines Soybean Processing Plant
Permit Number: 04-TV-020-R2

Permit conditions are established in accord with 567 Iowa Administrative Code rule 24.108. When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 24. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024 and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix 2.

Permit Duration

The term of this permit is: Five (5) years
Commencing on: Date
Ending on: Date+5years

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 24.110 - 24.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 24.115.

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

Opacity (visible emissions): <40% opacity
Authority for Requirement: 567 IAC 23.3(2)"d"
Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9

Sulfur Dioxide (SO2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations Chapter V,
Article IX, Section 5-27

Particulate Matter:

(1) General. The emission standards contained in this article shall apply to each source operation unless performance standard for the process is specified in Section 5-16, in which case the performance standard shall apply.

(2) Compliance with other requirements. For the purposes of this chapter, Compliance with other requirements, as set forth in 567 IAC 21.9(455B), is adopted by reference.

(3) Particulate matter. No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in Section 5-14, except as provided in Sections 5-17, 5-17.1, 5-18, 5-59, 5-68.1, 5-69.1, 5-70.1, and 5-71.1.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"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14.

Combustion for indirect heating. Emissions of particulate matter from the combustion of fuel for indirect heating or for power generation shall be limited by the ASME Standard APS-1, Second Edition, November 1968, "Recommended Guide for the Control of Dust Emission—Combustion for Indirect Heat Exchangers." For the purpose of this paragraph, the allowable emissions shall be calculated from equation (15) in that standard, with Comax2=50 micrograms per cubic meter. The maximum ground level dust concentrations designated are above the background level. For plants with 4,000 million Btu/hour input or more, the "a" factor shall be 1.0. In plants with less than 4,000 million Btu/hour input, appropriate "a" factors, less than 1.0, shall be applied. Pertinent correction factors, as specified in the standard, shall be applied for installations with multiple stacks. However, for fuel-burning units in operation on January 13, 1976, the maximum allowable emissions calculated under APS-1 for the facility’s equipment configuration on January 13, 1976, shall not be increased even if the changes in the equipment or stack configuration would otherwise allow a recalculation and a higher maximum allowable emission under APS-1.

Authority for Requirement: 567 IAC 23.3(2)"b"(2)
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(3)

Fugitive Dust:

(1) 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. 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 that require abatement pursuant to this subrule. Reasonable precautions may include but not be limited to the following procedures:

a. Use, where practical, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;

b. 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.

c. 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.

d. Covering, at all times when in motion, open-bodied trucks transporting materials likely to give rise to airborne dusts;

e. The prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-23

Operational Limits & Requirements

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

NESHAP:

The facility is subject to subpart GGGG-National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production, promulgated. The subpart is linked in its entirety in Appendix 1 of this Permit.

Authority for Requirement: 40 CFR Part 63 Subpart GGGG,
567 IAC 23.1(4) "cg"
Polk County Board of Health Rules and Regulations
Chapter V, Article VIII, Section 5-20

The facility operates a diesel fired Caterpillar Limited Use Generator (EU C012) and a natural gas fired Emergency Lighting Generator (EU GP013). This equipment is subject to National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion [40 CFR Part 63 Subpart ZZZZ]. The subpart is linked in its entirety in Appendix 1 of this Permit.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ.
567 IAC 23.1(4) "cz"
Polk County Board of Health Rules and Regulations

The facility operates a 175 MMBtu/hr steam generator combusting natural gas or No. 2 fuel oil (EU C09), a 240 MMBtu/hr Boiler, with Low NOx Burners: (EU C10 / CE C10 / EP C10), a 61.5 MMBtu Nebraska Model NS-E-58 natural gas fired Boiler #4: (EP C013 / EU C013). This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD]. The subpart will be linked in its entirety in Appendix 1 of the Title V Permit.

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD.
567 IAC 23.1(4) "dd"
Polk County Board of Health Rules and Regulations
Chapter V, Article VIII, Section 5-20

III. Emission Point-Specific Conditions

Facility Name: ADM - Des Moines Soybean Processing Plant
Permit Number: 04-TV-020R2

Emission Point ID Number: C06A - Fly Ash Transfer

Associated Equipment

Associated Emission Unit ID Number: C06
Emissions Control Equipment ID Number: C06A
Emissions Control Equipment Description: Cyclone with fabric filter

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Emission Unit vented through this Emission Point: C06
Emission Unit Description: Fly Ash Transfer
Raw Material/Fuel: Fly Ash
Rated Capacity: 2.5 Tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 0%
Authority for Requirement: DNR Construction Permit 87-A-021-S1

Pollutant: PM
Emission Limit: 0.02 gr/dscf
Authority for Requirement: DNR Construction Permit 87-A-021-S1

Pollutant: PM_{10}
Emission Limit: 0.26 lb/hr
Authority for Requirement: DNR Construction Permit 87-A-021-S1

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. This emission point shall not be operated at the same time as EP C06B.
2. The owner or operator shall record the time and date that emissions are switched between EP C06A and EP C06B.

Authority for Requirement: DNR Construction Permit 87-A-021-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 37.2
Stack Diameter (inches): 7
Stack Exhaust Flow Rate (acfm): 1,540
Stack Temperature (^{o}F): 165
Discharge Style: Obstructed Vertical
Authority for Requirement: DNR Construction Permit 87-A-021-S1

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

Monitoring Requirements

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

EP C06A shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request. Emission observations will not be required when EU C06 is not operated for an entire week. Date and time of equipment shutdown and startup shall be noted in the equipment log book.

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 must 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 24.108(3)

Emission Point ID Number: C06B - Fly Ash Transfer

Associated Equipment

Associated Emission Unit ID Number: C06
Emissions Control Equipment ID Number: C06B
Emissions Control Equipment Description: Cyclone with fabric filter

Emission Unit vented through this Emission Point: C06
Emission Unit Description: Fly Ash Transfer
Raw Material/Fuel: Fly Ash
Rated Capacity: 2.5 Tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 0%
Authority for Requirement: DNR Construction Permit 09-A-413

Pollutant: PM
Emission Limit: 0.02 gr/dscf
Authority for Requirement: DNR Construction Permit 09-A-413

Pollutant: PM_{10}
Emission Limit: 0.26 lb/hr
Authority for Requirement: DNR Construction Permit 09-A-413

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. This emission point shall not be operated at the same time as EP C06A.
2. The owner or operator shall record the time and date that emissions are switched between EP C06A and EP C06B.

Authority for Requirement: DNR Construction Permit 09-A-413

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

Stack Height (feet): 37.2
Stack Diameter (inches): 7
Stack Exhaust Flow Rate (acfm): 1,540
Stack Temperature (^{o}F): 165
Discharge Style: Obstructed Vertical
Authority for Requirement: DNR Construction Permit 09-A-413

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

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

EP C06A shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request. Emission observations will not be required when EU C06 is not operated for an entire week. Date and time of equipment shutdown and startup shall be noted in the equipment log book.

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 must 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 24.108(3)

Emission Point ID Number: C07 - Fly Ash Transfer Silo

Associated Equipment

Associated Emission Unit ID Number: C07
Emissions Control Equipment ID Number: C07
Control Equipment Description: Flex-kleen Baghouse Model 58-BVB-C9-IIG

Emission Unit vented through this Emission Point: C07
Emission Unit Description: Fly Ash Storage
Raw Material/Fuel: Fly Ash
Rated Capacity: 2.52 tons/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: 0%
Authority for Requirement: DNR Construction Permit 87-A-022-S90

Pollutant: PM
Emission Limit: 0.08 lb/hr, 0.35 TPY
Authority for Requirement: DNR Construction Permit 87-A-022-S90

Monitoring Requirements

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

EP C07 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request. Emission observations will not be required when EU C07 is not operated for an entire week. Date and time of equipment shutdown and startup shall be noted in the equipment log book.

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 must 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 24.108(3)

Emission Point ID Numbers: C09 - Standby Boiler
C09A - Standby Boiler (Bypass)

Associated Equipment

EP	EU	Emission Unit Description	Raw Material	Rated Capacity	DNR Construction Permit
C09	C09	Standby boiler	Natural gas	175 MM BTU/ hr; 193,000 ft^3/hr	88-A-203-S4
C09A					09-A-414-S1

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: 20%(1)
Authority for Requirement: DNR Construction Permits 88-A-203-S4 & 09-A-414-S1
567 IAC 23.3(2) "d"
(1) An exceedance of the indicator opacity of "No Visible Emissions (No VE)" 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).

Pollutant: PM
Emission Limits: 10.9 lb./hr ; 0.2 lb/MMBtu
Authority for Requirement: DNR Construction Permits 88-A-203-S4 & 09-A-414-S1
567 IAC 23.3(2) "b"(3)

Pollutant: PM_{10}
Emission Limit: 1.3 lb/hr
Authority for Requirement: DNR Construction Permits 88-A-203-S4 & 09-A-414-S1

Pollutant: SO_2
Emission Limits: 0.1 lb/hr, 500 ppm_v
Authority for Requirement: DNR Construction Permits 88-A-203-S4 & 09-A-414-S1
567 IAC 23.3(3) "e"
Polk County Board of Health Rules and Regulations
Chapter V, Article IX, Section 5-27(5)

Pollutant: NOx
Emission Limit: 32.6 lb/hr
Authority for Requirement: DNR Construction Permits 88-A-203-S4 & 09-A-414-S1

Pollutant: CO
Emission Limit: 4.45 lb/hr
Authority for Requirement: DNR Construction Permits 88-A-203-S4 & 09-A-414-S1

NESHAP

This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].
Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. This emission unit (EU C09) is limited to firing on natural gas.
2. The owner or operator shall operate and maintain this emission unit (EU C09) in accordance with manufacturer's specifications. The owner or operator shall maintain a log of all inspections and maintenance activities performed on the emission unit (EU C09). This log shall include, but is not limited to:
    a. The date and time any inspection and/or maintenance was performed on the emission unit (EU C09);
    b. Any issues identified during the inspection and the date each issue was resolved;
    c. Any issues addressed during the maintenance activities and the date each issue was resolved;
    d. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 88-A-203-S4 & 09-A-414-S1

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

Stack Height (feet): 44.8
Stack Diameter (inches): 72
Stack Exhaust Flow Rate (scfm): 50,000
Stack Temperature (^{o}F): 500
Discharge Style: Unobstructed Vertical
Authority for Requirement: DNR Construction Permits 88-A-203-S4 & 09-A-414-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values

stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: C10 - Boiler

Associated Equipment

Emissions Control Equipment ID Number: C10
Emissions Control Equipment Description: Low NOx Burners
Continuous Emissions Monitors ID Numbers: C10

Emission Unit vented through this Emission Point: C10
Emission Unit Description: Boiler
Raw Material/Fuel: Natural gas combustion or #2 Fuel Oil
Rated Capacity: 240 MMBtu/hr; 235,295 scf/hr natural gas or 1,715 gal/hr #2 fuel oil.

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: <20%(1)
Authority for Requirement: Polk County Construction Permit Number 3794
Polk County Board of Health Rules and Regulations
Chapter V, Section 5-9
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-16(14)
567 IAC 23.1(2)"ccc"
40 CFR Part 60 Subpart Db

(1) In accordance with 40 CFR §60.43b(f), no owner or operator of an affected facility that combusts coal, oil, wood, or mixtures of these fuels with any other fuels shall cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

Pollutant: PM - Federal
Emission Limit: 0.030 lb/MMBtu
Authority for Requirement: Polk County Construction Permit Number 3794
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-16(14)
567 IAC 23.1(2)"ccc"
40 CFR Part 60 Subpart Db

Pollutant: PM - State
Emission Limit: 0.6 lb/MMBtu
Authority for Requirement: Polk County Construction Permit Number 3794
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-15(b)
567 IAC 23.3(2) "b"

Pollutant: PM_{10}
Emission Limits: 0.96 lb/hr (natural gas);
5.66 lb/hr (No. 2 fuel oil)
Authority for Requirement: Polk County Construction Permit Number 3794

Pollutant: SO_2
Emission Limits: 500 PPM_v (natural gas) ;
0.5 lb/MMBtu (No. 2 fuel oil)
Authority for Requirement: Polk County Construction Permit Number 3794
Polk County Board of Health Rules and Regulations
Chapter V, Article IX, Section 5-27(5)
Polk County Board of Health Rules and Regulations
Chapter V, Article IX, Section 5-27(2)

Pollutant: NO_x
Emission Limits: 8.64 lb/hr (natural gas);
39.40 TPY (total)
Authority for Requirement: Polk County Construction Permit Number 3794

Pollutant: NO_x
Emission Limits: 0.20 lb/MMbtu
Authority for Requirement: Polk County Construction Permit Number 3794
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-16(14)
567 IAC 23.1(2)"ccc"
40 CFR Part 60 Subpart Db

Pollutant: CO
Emission Limit: 8.88 lb/hr
Authority for Requirement: Polk County Construction Permit Number 3794

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

NSPS

The facility shall comply with all applicable conditions of 40 CFR 60 Subpart Db-*Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.*

1. The Boiler (EU C10) is limited to firing on natural gas and distillate fuel oil.
    a. The owner or operator shall be limited to one hundred twenty (120) hours of distillate fuel oil usage for the boiler (EU C10) per twelve (12) month period rolled and totaled monthly.
    b. The facility shall record the total hours of fuel oil combusted on a monthly basis. Said log shall include the 12-month rolling total, rolled monthly.
    c. The owner or operator shall combust only fuel oil with a sulfur content of 0.05% or less by weight in the boiler. Fuel supplier certification of sulfur content shall be kept on site for each delivery of fuel oil purchased.

2. In accordance with §60.49b(g), the owner or operator of an affected facility subject to the NO_X standards under §60.44b shall maintain records of the following information for each steam generating unit operating day:
    a. Calendar date;
    b. The average hourly NO_x emission rates (in ng/J or lb/MMBTU heat input and expressed as NO_2) measured or predicted;
    c. The thirty (30) day average NO_x 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 thirty (30) steam generating unit operating days.
    d. Identification of the steam generating unit operating days when the calculated thirty (30) day average NO_x emission rates are in excess of the NO_x emission standards under 40 CFR §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;
    e. 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;
    f. Identification of the times when emissions data have been excluded from the calculation of average emission rates and the reasons for excluding data;
    g. Identification of "F" factor used for calculations, method of determination, and the type of fuel combusted;
    h. Identification of the times when the pollutant concentration exceeded full span of the CEMS;
    i. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and
    j. Results of daily CEMS drift tests and quarterly accuracy assessments as

required under 40 CFR Appendix F, Procedure 1.

3. In accordance with §60.49b(r)(1), the owner or operator shall obtain and maintain at the affected facility fuel receipts from the fuel supplier that certify that the gaseous fuel meets the definition of natural gas as defined in §60.41b and the applicable sulfur.

Authority for Requirement: Polk County Construction Permit Number 3794
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-16(14)
567 IAC 23.1(2)"ccc"
40 CFR Part 60 Subpart Db

NESHAP

This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].
Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

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

Stack Height (feet): 115
Stack Diameter (inches): 60
Stack Exhaust Flow Rate (scfm): 35,000
Stack Temperature (^{o}F): 300
Discharge Style: Unobstructed Vertical
Authority for Requirement: Polk County Construction Permit Number 3794

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

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

Continuous Emissions Monitoring:
Pollutant - NOx
Operational Specifications –

- In accordance with 40 CFR §60.48b(b), the owner or operator shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) and record the output of the system, for measuring nitrogen oxide (NO_x) emissions.

- The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR Appendix F (Quality Assurance/Quality Control) shall apply.

- This monitor shall also be used to demonstrate compliance with the non-NSPS emission standards in this permit.

Pollutant - O_2 or CO_2
Operational Specifications –

- In accordance with 40 CFR §60.48b(b), the owner or operator shall install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring the oxygen (O_2) or carbon dioxide (CO_2) content of the flue gases at each location where NO_x emissions are monitored.

- The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 3 (PS3) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR Appendix F (Quality Assurance/Quality Control) shall apply.

- This monitor shall also be used to demonstrate compliance with the non-NSPS emission standards in this permit.

Flowmeter
Operational Specifications –

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

  Date of Most Recent System Calibration and Quality Assurance – 7/10/2024

Reporting & Record keeping –

A. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits (CGA) and annual relative accuracy test audit (RATA). Annual RATAs and quarterly CGAs are required to be conducted on all CEMS and flowmeters required by this permit. The results shall be reported in units of the standards.

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

B. The CEMS required in Condition A. (above) for NO_x and either O_2 or CO_2 shall be operated and the data recorded during all periods of operation including periods of

startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.

C. The following data requirements shall apply to all CEMS for non-NSPS emission standards in this permit:
   (1) The CEMS required by this permit shall be operated and data recorded during all periods of operation of the emission unit except for CEM breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.
   (2) The 1-hour average NO_x and CO_2 emission rates measured by the CEMS and flow measured by the flowmeter required by this permit shall be used to calculate compliance with the emission standards of this permit. At least 2 data points must be used to calculate each 1-hour average.
   (3) For each hour of missing emission data (NO_x or CO_2), the owner or operator shall substitute data by:
      (i) If the quarterly monitor data availability is equal to or greater than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:
         (a) For the missing data period less than or equal to 24 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
         (b) For a missing data period greater than 24 hours, substitute the greater of:
            - The 90^{th} percentile hourly concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
            - The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
      (ii) If the quarterly monitor data availability is at least 90.0% but less than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:
         (a) For a missing data period of less than or equal to 8 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
         (b) For the missing data period of more than 8 hours, substitute the greater of:
            - The 95^{th} percentile hourly pollutant concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
            - The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

(iii) If the quarterly monitor data availability is less than 90.0%, the owner or operator shall obtain actual emission data by an alternate testing or monitoring method approved by the Department.

Authority for Requirement: Polk County Construction Permit Number 3794
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-16(14)
567 IAC 23.1(2)"ccc"
40 CFR Part 60 Subpart Db

EP C10 shall be visually checked for observable emissions once every week by a designated observer whenever #2 Fuel Oil is combusted. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 24.108(3)

Emission Point ID Number: C012 – Caterpillar Diesel Generator

Associated Equipment

Emissions Control Equipment ID Number: C012
Emissions Control Equipment Description: Johnson Matthey HAPGuard CO Catalyst

Emission Unit vented through this Emission Point: C012
Emission Unit Description: Caterpillar Model 3412 Diesel Generator
Raw Material/Fuel: #2 Fuel Oil
Rated Capacity: 600 kW (896 HP)

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: <20 %
Authority for Requirement: Polk County Construction Permit Number 1115 Modified #2
Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9

Pollutant: PM
Emission Limits: 0.42 lb/hr, 0.11 TPY, 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 1115 Modified #2
567 IAC 23.3(2)"a"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limits: 0.35 lb/hr, 0.09 TPY
Authority for Requirement: Polk County Construction Permit Number 1115 Modified #2

Pollutant: $PM_{2.5}$
Emission Limits: 0.35 lb/hr, 0.09 TPY
Authority for Requirement: Polk County Construction Permit Number 1115 Modified #2

Pollutant: SO_2
Emission Limits: 0.009 lb/hr, 0.002 TPY, 0.5 lb/MM BTU
Authority for Requirement: Polk County Construction Permit Number 1115 Modified #2
Polk County Board of Health Rules and Regulations Chapter V, Article IX, Section 5-27(5)

Pollutant: NOx
Emission Limit: 19.51 lb/hr, 4.88 TPY
Authority for Requirement: Polk County Construction Permit Number 1115 Modified #2

Pollutant: VOC
Emission Limit: 0.50 lb/hr, 0.13 TPY
Authority for Requirement: Polk County Construction Permit Number 1115 Modified #2

Pollutant: CO
Emission Limit: 4.42 lb/hr, 0.22 TPY, 23 ppmvd or less at 15% O2, or reduce CO emissions by 70% or more
Authority for Requirement: Polk County Construction Permit Number 1115 Modified #2
40 CFR §63.6600(d), subpart ZZZZ
567 IAC 23.1(4)"cz"
Polk County Board of Health Rules and Regulations Chapter V, Article
VIII, Section 5-20

NESHAP

This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ].
Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
Polk County Board of Health Rules and Regulations Chapter V, Article
VIII, Section 5-20

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Hours of operation:

1. Each calendar year, EU C012 shall operate as a limited use generator and follow the requirements of Scenario #1 until it has operated 100 hours. Upon exceeding 100 hours of operation in a calendar year, the unit must operate as a non-emergency unit and operate in accordance of Scenario #2. In any subsequent calendar year, if the generator operates for less than 100 hours the unit would revert back to the limited-use category and the Scenario #1 requirements.
2. Prior to exceeding 100 hours in a calendar year for the first time, the owner/operator shall have completed an initial performance test as required by §63.6610(a).
3. The owner/operator shall comply with the Carbon Monoxide (CO) emission limits of 4.42 lb/hr and 0.22 TPY; until such time that an initial performance test is

required. Once the initial performance test is completed the owner/operator shall comply with the emission limits of
Carbon Monoxide (CO) determined by the emission test results.

Operational Limits Scenario #1:

1. This equipment is subject to the National Standards for Hazardous Air Pollutants for Stationary Internal Combustion Engines (RICE NESHAP)[40 CFR Part63 Subpart ZZZZ]. Authority for Requirement; 40 CFR Part 63 Subpart ZZZZ.
2. Per § 63.6590 (3)(iv) as an existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, emission unit C012 does not have to meet the requirements of subpart ZZZZ or subpart A, including initial notification requirements.
3. Emission unit C012 shall be operated in a manner consistent with the definition of a limited use stationary RICE as defined by § 63.6675.

Operational Limits Scenario #2:

NESHAP Requirements:

1. The owner/operator shall comply with all applicable requirements of 40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.
2. Per §63.6590 (a)(1)(i); the affected source is an existing stationary RICE with a site rating of more than 500 hp located at a major source of HAP emissions.
3. Per §63.6600(d); the owner/operator of an existing non-emergency stationary CI RICE with a site rating of more than 500 HP located at a major source of HAP emissions, must comply with the emission limitations in Table 2c to this subpart and the operating limitations in Table 2b to this subpart which apply to you.
4. Per §63.6604(a); the owner/operator must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel.
5. Per §63.6605(a); the owner/operator must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.
6. Per §63.6605(b); At all times you must operate and maintain the affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.
7. Per §63.6610(a); You must conduct the initial performance test or other initial compliance demonstrations in Table 4 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions in§63.7(a)(2).
8. Per §63.6615; You must conduct subsequent performance tests as specified in Table 3 of this subpart.
9. Each performance test shall be conducted in accordance with the procedures of §63.6620.
10. The owner/operator shall comply with the applicable monitoring, installation, collection, operation, and maintenance requirements of §63.6625.
11. The owner/operator shall demonstrate initial compliance with the emission limitations, operating limitations, and other requirements as required by §63.6630.

12. The owner/operator shall monitor and collect data to demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements as required by §63.6635.
13. The owner/operator shall demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements per the procedures of §63.6640.
14. The owner/operator shall submit the notifications required by §63.6645.
15. The owner/operator shall submit each required report in accordance with §63.6650.
16. The owner/operator shall keep the records required by §63.6655 in accordance with the requirements of §63.6660.
17. Per 40 CFR 63 subpart ZZZZ Table 2C(5): Non-Emergency, non-black start CI stationary CI RICE>500 HP must:
    a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd or less at 15% O2; or
    b. Reduce CO emissions by 70% or more.
18. Per 40 CFR 63 subpart ZZZZ Table 2B(2): Existing CI stationary RICE > 500 HP complying with the requirement to limit or reduce the concentration of CO in the stationary RICE exhaust and using an oxidation catalyst shall:
    a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the initial performance test; and
    b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F.

Work practice standards:

1. Fuel sulfur content shall not exceed 0.05% by weight. Fuel supplier certification shall be obtained and maintained on site for each purchase for a period of five years and shall be made available to representatives of this department upon request.

Reporting & Record keeping:

1. A non-resettable totalizing hour meter shall be installed on the unit
2. Operation shall be limited to five hundred (500) hours per twelve (12) month period rolled and totaled monthly.
3. Monthly readings shall be taken and logged on site. Said log shall include the 12 month rolling total, rolled monthly.
4. All records shall be kept on site for a minimum period of five years and be made available to Polk County Air Quality personnel upon request

Authority for Requirement: Polk County Construction Permit Number 1115 Modified #2
40 CFR §63.6600(d), subpart ZZZZ
567 IAC 23.1(4)"cz"
Polk County Board of Health Rules and Regulations Chapter V, Article VIII, Section 5-20

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

Stack Height (feet): 21
Stack Diameter (inches): 10
Stack Exhaust Flow Rate (scfm): 5,018
Stack Temperature (^{o}F): 907
Discharge Style: Vertical, unobstructed
Authority for Requirement: Polk County Construction Permit Number 1115 Modified #2

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

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

EP C012 shall be visually checked for observable emissions once every month by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request. The logbook shall be notated with a negative declaration of operation at the end of each calendar month during which no operation occurs.

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 24.108(3)

Emission Point ID Number: C013 - Nebraska Model NS-E-58 Boiler #4

Associated Equipment

Emission Unit vented through this Emission Point: C013
Emission Unit Description: Nebraska Model NS-E-58 Boiler #4
Raw Material/Fuel: Natural Gas
Rated Capacity: 61.5 MM BTU

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: <20 %
Authority for Requirement: Polk County Construction Permit Number 2530

Pollutant: PM
Emission Limits: 0.46 lb/hr, 2.00 TPY, 0.10 gr/dscf, 0.6 lb/MMbtu
Authority for Requirement: Polk County Construction Permit Number 2530
567 IAC 23.3 (2) "b"
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-15(b)

Pollutant: PM_{10}
Emission Limits: 0.46 lb/hr, 2.00 TPY, 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 2530

Pollutant: SO_2
Emission Limits: 0.04 lb/hr, 0.16 TPY, 500 ppm
Authority for Requirement: Polk County Construction Permit Number 2530
567 IAC 23.3 (3)"e"
Polk County Board of Health Rules and Regulations
Chapter V, Article IX, Section 5-27(5)

Pollutant: NOx
Emission Limits: 6.00 lb/hr, 26.28 TPY
Authority for Requirement: Polk County Construction Permit Number 2530

Pollutant: VOC
Emission Limits: 0.33 lb/hr, 1.45 TPY

Authority for Requirement: Polk County Construction Permit Number 2530

Pollutant: CO
Emission Limits: 5.04 lb/hr, 22.08 TPY
Authority for Requirement: Polk County Construction Permit Number 2530

NESHAP
This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].
Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

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

Stack Height (feet): 40
Stack Diameter (inches): 41
Stack Exhaust Flow Rate (scfm): 9,660
Stack Temperature (^{o}F): 420
Discharge Style: Unobstructed Vertical
Authority for Requirement: Polk County Construction Permit Number 2530

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: GP02 -2 - 500,000 bushel bean storage tanks

Associated Equipment

Emission Unit vented through this Emission Point: GP02
Emission Unit Description: 2 - 500,000 bushel bean storage tanks
Raw Material/Fuel: Soybeans
Rated Capacity: 960 Tons/hour

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: <40%
Authority for Requirement: Polk County Board of Health Rules and Regulations
Chapter V, Section 5-9

Pollutant: PM
Emission Limit: 0.10 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
Polk County Board of Health Rules and Regulations
Chapter V, Section 5-16(7)

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: GP04A - Conveying to Process

Associated Equipment

Associated Emission Unit ID Numbers: GP04
Emissions Control Equipment ID Number: GP04A
Emissions Control Equipment Description: MAC Elevator Baghouse

Emission Unit vented through this Emission Point: GP04
Emission Unit Description: Conveying to Process
Raw Material/Fuel: Soybeans
Rated Capacity: 250 Tons/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: 0%
Authority for Requirement: Polk County Construction Permit Number 1892 Modified #4
40 CFR 60 Subpart DD
567 IAC 23.1(2)"ooo"
Polk County Board of Health Rules and Regulations Chapter V, Article VI,
Section 5-16(14)

Pollutant: PM - Federal
Emission Limit: 0.01 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 1892 Modified #4
40 CFR 60 Subpart DD
567 IAC 23.1(2)"ooo"
Polk County Board of Health Rules and Regulations Chapter V, Article VI,
Section 5-16(14)

Pollutant: PM_{10}
Emission Limit: 0.48 lb/hr
Authority for Requirement: Polk County Construction Permit Number 1892 Modified #4

Pollutant: $PM_{2.5}$
Emission Limit: 0.48 lb/hr
Authority for Requirement: Polk County Construction Permit Number 1892 Modified #4

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Process throughput:

1. The facility shall not process more than 1,971,000 tons of soybeans per 12 month period, rolled monthly.

Reporting & Record keeping:

- The owner or operator shall record the following:
    - The amount of soybeans processed per hour (both in bushels and tons) for each hour of operation,
    - The amount of soybeans processed per day (both in bushels and tons) for each day of operation,
    - The total amount of soybeans processed per month (both in bushels and tons) for each month of operation, and
    - The annual amount of soybeans processed (both in bushels and tons) on a rolling 12-month basis for each month of operation.

Control equipment parameters:

1. The owner or operator shall maintain and operate the equipment, including control equipment, at all times in a manner consistent with good practice for minimizing emissions.
2. Control equipment (baghouse) shall be used at all times while the EU GP04 is in operation.
3. The owner or operator shall perform routine maintenance and inspections as per manufacturer's guidance for the product line equipment and control equipment (baghouse).
4. The owner or operator shall maintain records of maintenance activities on the EU GP04 equipment, including control equipment (baghouse).

Authority for Requirement: Polk County Construction Permit Number 1892 Modified #4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 97.5
Stack Diameter (inches): 34
Stack Exhaust Flow Rate (scfm): 16,005
Stack Temperature (^{o}F): Ambient
Discharge Style: Vertical, unobstructed
Authority for Requirement: Polk County Construction Permit Number 1892 Modified #4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is

determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within 30 days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

EP GP04A shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 must 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 24.108(3)

Emission Point ID Number: GP05A - Bean Conditioning and Dehulling

Associated Equipment

Associated Emission Unit ID Number: GP05
Emissions Control Equipment ID Number: GP05A
Emissions Control Equipment Description: Pneumafil Model RAF-II 11.5-320-12 Baghouse

Emission Unit vented through this Emission Point: GP05
Emission Unit Description: Escher Wyss Bean Conditioning and Dehulling
Raw Material/Fuel: Soybeans
Rated Capacity: 275 Tons/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: <20%
Authority for Requirement: Polk County Construction Permit Number1407 Modified #4

Pollutant: PM
Emission Limits: 0.27 lb/hr, 0.96 TPY, 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 1407 Modified #4
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(3).
567 IAC 23.3(2)"a"

Pollutant: PM_{10}
Emission Limits: 0.27 lb/hr, 0.96 TPY
Authority for Requirement: Polk County Construction Permit Number 1407 Modified #4

Pollutant: $PM_{2.5}$
Emission Limits: 0.27 lb/hr, 0.96 TPY
Authority for Requirement: Polk County Construction Permit Number 1407 Modified #4

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

Process throughput:

1. The facility shall not process more than 1,971,000 tons of soybeans per 12 month period, rolled monthly.

Reporting & Record keeping:

1. The facility shall record and maintain daily records of the tons of soybeans processed. Said records shall be maintained on site for a minimum period of 10 years and shall be made available to representatives of this agency upon request.

Authority for Requirement: Polk County Construction Permit Number 1407 Modified #4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 80
Stack Diameter (inches): 40
Stack Exhaust Flow Rate (acfm): 37,000
Stack Temperature (^{o}F): 130
Discharge Style: Vertical, unobstucted
Authority for Requirement: Polk County Construction Permit Number 1407 Modified #4

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

Monitoring Requirements

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

EP GP05A shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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 $\geq$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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 24.108(3)

Emission Point ID Number: GP06A - Flaking Aspiration

Associated Equipment

Associated Emission Unit ID Number: GP06A
Emissions Control Equipment ID Number: GP06B
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: GP06A
Emission Unit Description: Flaking Aspiration
Raw Material/Fuel: Soybeans
Rated Capacity: 210 Tons/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: <20%(1)
Authority for Requirement: Polk County Construction Permit Number 1618 Modified #7

(1) An exceedance of the indicator opacity of no visible emissions 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 Local Program may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM
Emission Limit: 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 1618 Modified #7
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limit: 0.675 lb/hr
Authority for Requirement: Polk County Construction Permit Number 1618 Modified #7

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall not process more than 1,971,000 tons of soybeans per 12-month period, rolled monthly.
2. The owner or operator shall maintain and operate the equipment, including control equipment, at all times in a manner consistent with good practice for minimizing emissions.
3. Control equipment (baghouse) shall be used at all times while the Flaking Aspiration is in operation.
4. The owner or operator shall perform routine maintenance and inspections as per manufacturer's guidance for the product line equipment and control equipment (baghouse).
5. The facility shall record and maintain daily records of soybeans processed (in tons). Said records shall be maintained for on site for a minimum of ten (10) years and shall be made available to PCAQD representatives upon request.
6. The owner or operator shall maintain records of maintenance activities on the Flaking Aspiration equipment, including control equipment (baghouse).

Authority for Requirement: Polk County Construction Permit Number 1618 Modified #7

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 97
Stack Diameter (inches): 33
Stack Exhaust Flow Rate (scfm): 27,500
Stack Temperature (^{o}F): 160
Discharge Style: Vertical, unobstructed
Authority for Requirement: Polk County Air Quality Construction Permit Number 1618 Modified #7

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

Monitoring Requirements

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

EP GP06A shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 24.108(3)

Emission Point ID Number: GP07 - Conveying to Extractor

Associated Equipment

Emission Unit vented through this Emission Point: GP07
Emission Unit Description: Conveying to Extractor
Raw Material/Fuel: Flakes
Rated Capacity: 250 Tons/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: <20%
Authority for Requirement: Polk County Construction Permit Number 0103 Modified #4

Pollutant: PM
Emission Limit: 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0103 Modified #4
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limit: 0.343 lb/hr
Authority for Requirement: Polk County Construction Permit Number 0103 Modified #4

Pollutant: $PM_{2.5}$
Emission Limit: 0.343 lb/hr
Authority for Requirement: Polk County Construction Permit Number 0103 Modified #4

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall not process more than 1,971,000 tons of soybeans per 12-month period, rolled monthly. The owner or operator shall record the following
    a. The amount of soybeans processed per hour (both in bushels and tons) for each hour of operation,
    b. The amount of soybeans processed per day (both in bushels and tons) for each day of operation,
    c. The total amount of soybeans processed per month (both in bushels and tons) for each month of operation, and
    d. The annual amount of soybeans processed (both in bushels and tons) on a rolling 12-month basis for each month of operation.

Authority for Requirement: Polk County Construction Permit Number 0103 Modified #4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 95
Stack Diameter (inches): 8.0
Stack Exhaust Flow Rate (scfm): 960
Stack Temperature (^{o}F): 100
Discharge Style: Vertical, unobstructed
Authority for Requirement: Polk County Air Quality Construction Permit Number 0103 Modified #4

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

Monitoring Requirements

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

EP GP07 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 24.108(3)

Emission Point ID Number: GP09A – Solvent Bubble [includes GP09 Extractor, MP01 DTDC-Desolventizer/ Toaster, and GP014 Hexane Tanks (2)]

Associated Equipment

Associated Emission Unit ID Numbers: GP09, GP014, MP01
Emissions Control Equipment ID Number: CE GP09A
Emissions Control Equipment Description: Mineral Oil Absorption System

EU	Emission Unit Description	Raw Material	Rated Capacity
GP09	Extractor	Hexane/Meal	230 Tons/hr
GP014	Hexane Tanks	Hexane	2 Tanks - 30,000 gallons each
MP01	Desolventizer/Toaster Dryer Cooler (DTDC)	Meal	215 Tons/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: VOC
Emission Limits: 788.0 Tons/yr[1], 0.140 gallons/ton[2]
Authority for Requirement: DNR Construction Permit 07-A-1078-P2
[1] 12-month rolling total, including startup, shutdown, or malfunction
[2] gallons of VOC lost per ton of soybeans processed. 12-month rolling total, does not include startup, shutdown, or malfunction

Pollutant: Total HAP
Emission Limits: Compliance Ratio≤ 1.00
Authority for Requirement: DNR Construction Permit 07-A-1078-P2
40 CFR Part 63 Subpart GGGG
567 IAC 23.1(4)"cg"

NESHAP
This unit is subject to 40 CFR Part 63 Subpart GGGG - National Emission Standards for Solvent Extraction for Vegetable Oil Production and Subpart A – General Provisions.

Authority for Requirement: 40 CFR Part 63 Subpart GGGG

567 IAC 23.1(4)"cg"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. This facility (plant number 77-01-045) shall not process more than 1,971,000 tons of soybeans per 12-month rolling period. The owner or operator shall record the following:
   a. The amount of soybeans processed per day (both in bushels and tons) for each day of operation,
   b. The total amount of soybeans processed per month (both in bushels and tons) for each month of operation, and
   c. The annual amount of soybeans processed (both in bushels and tons) on a rolling 12-month basis for each month of operation.
2. In order to demonstrate compliance with the VOC BACT emission limits, the owner or operator shall maintain the following records:
   a. The solvent loss per month (both in gallons and tons) for the facility (Plant Number 77-01-045) for each month of operation,
   b. The calculated monthly ratio of solvent loss to soybeans processed (gal/ton) for each month of operation,
   c. The annual solvent loss (both in gallons and tons) for the facility (Plant Number 77-01-045) on a rolling 12-month basis for each month of operation, and
   d. The calculated annual ratio of solvent loss to soybeans processed (gal/ton) on a rolling 12-month basis for each month of operation.

NOTE: The rolling 12-month total of tons of solvent loss is required to include SSM, but the ratio of solvent loss to soybeans processed is not required to include SSM.

3. The owner or operator shall conduct an inspection of the emission units (EUs GP09 and MP01) and the associated control equipment (CE GP09A) per the manufacturer's recommendations with a minimum inspection frequency of once per year. The owner or operator shall record:
   a. The date of each inspection,
   b. Any issues discovered during the inspection,
   c. Any maintenance issues discovered outside of any inspections, and
   d. Any actions taken to resolve issues discovered during any inspection or for maintenance issues.
4. In accordance with 40 CFR §63.2851, the owner or operator shall develop and implement a written plan for demonstrating compliance that provides the detailed procedures to be followed to monitor and record data necessary for demonstrating compliance with NESHAP Subpart GGGG. The plan for demonstrating compliance shall include the following:
   a. The name and address of the owner or operator.
   b. The physical address of the vegetable oil production process.
   c. A detailed description of all methods of measurement the owner or operator will use to determine the solvent losses, HAP content of solvent, and the tons of each type of oilseed processed.
   d. When each measurement will be made.

e. Examples of each calculation the owner or operator will use to determine the compliance status of the facility (plant number 77-01-045). The owner or operator shall include examples of how data measured with one parameter will be converted to other terms for use in the compliance determination.
f. Example logs of how the data will be recorded.
g. A plan to ensure that the data continue to meet compliance demonstration needs.

5. The owner or operator shall record the ratio of solvent loss to soybeans processed to demonstrate compliance with the NESHAP Subpart GGGG requirement (See Total HAP limit in Condition 1.B.) on a rolling 12-month basis. The ratio of solvent loss to soybeans processed for compliance with NESHAP Subpart GGGG shall be determined in accordance with 40 CFR §63.2840 and 40 CFR §63.2850 – 40 CFR §63.2855.
6. In accordance with 40 CFR §63.2862(c) and in accordance with the plan for demonstrating compliance required by 40 CFR §63.2851, the owner or operator shall record the following:
   a. For the solvent inventory, record the following information:
      i. Dates that define each operating status period during a calendar month.
      ii. The operating status of the facility (plant number 77-01-045) such as normal operation, nonoperation, initial startup period, malfunction period, or exempt operation for each recorded time interval.
      iii. Record the gallons of extraction solvent in the inventory on the beginning and ending dates of each normal operating period.
      iv. The gallons of all extraction solvent received, purchased, and recovered during each calendar month.
      v. All extraction solvent inventory adjustments, additions or subtractions. The owner or operator must document the reason for the adjustment and justify the quantity of the adjustment.
      vi. The total solvent loss for each calendar month, regardless of the source operating status.
      vii. The actual solvent loss in gallons for each operating month.
   b. For the weighted average volume fraction of HAP in the extraction solvent, the owner or operator must record the following items:
      i. The gallons of extraction solvent received in each delivery.
      ii. The volume fraction of each HAP exceeding one percent (1%) by volume in each delivery of extraction solvent.
      iii. The weighted average volume fraction of HAP in extraction solvent received since the end of the last operating month as determined in accordance with 40 CFR §63.2854(b)(2).
   c. For each type of listed oilseed processed, record the following items:
      i. The dates that define each operating status period. These dates must be the same as the dates entered for the extraction solvent inventory.
      ii. The operating status of the facility (plant number 77-01-045) such as normal operation, nonoperation, initial startup period, malfunction period, or exempt operation for each recorded time interval. On the log for each type of listed oilseed that is not being processed during a normal operating period, the owner or operator shall record which type

of listed oilseed is being processed in addition to the source operating status.

iii. The oilseed inventory for the type of listed oilseed being processed on the beginning and ending dates of each normal operating period.

iv. The tons of each type of listed oilseed received at the facility (plant number 77-01-045) each normal operating period.

v. All listed oilseed inventory adjustments, additions or subtractions for normal operating periods. The owner or operator shall document the reason for the adjustment and justify the quantity of the adjustment.

vi. The tons of each type of listed oilseed processed during each operating month.

7. In accordance with 40 CFR §63.2862(d), after the facility (Plant Number 77-01-045) has processed a listed oilseed for 12 operating months, the owner or operator shall record the following items by the end of the calendar month following each operating month:
   a. The twelve (12) operating months rolling sum of the actual solvent loss in gallons as described in 40 CFR §63.2853(c).
   b. The weighted average volume fraction of HAP in extraction solvent received for the previous twelve (12) operating months as described in 40 CFR §63.2854(b)(3).
   c. The twelve (12) operating months rolling sum (in tons) of each type of listed oilseed processed at the facility (plant number 77-01-045) as described in 40 CFR §63.2855(c).
   d. A determination of the compliance ratio. The owner or operator shall use the values from 40 CFR §63.2853, 40 CFR §63.2854, 40 CFR §63.2855, and Table 1 of 40 CFR §63.2840 along with Equation 2 of 40 CFR §63.2840 to calculate the compliance ratio.
   e. A statement of whether the source is in compliance with all of the requirements of NESHAP Subpart GGGG. This includes a determination of whether the facility (plant number 77-01-045) has met all of the applicable requirements in 40 CFR §63.2850.
8. All notifications for NESHAP Subpart GGGG at the facility (77-01-045) shall be submitted as required per 40 CFR §63.2860.
9. All reports for NESHAP Subpart GGGG at the facility (77-01-045) shall be submitted as required per 40 CFR §63.2861.

Authority for Requirement: State of Iowa Construction Permit Number 07-A-1078-P2
40 CFR Part 63 Subpart GGGG
567 IAC 23.1(4)"cg"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 21
Stack Diameter (inches): 12
Stack Exhaust Flow Rate (scfm): 200
Stack Temperature (^{o}F): 100
Discharge Style: Horizontal
Authority for Requirement: State of Iowa Construction Permit Number 07-A-1078-P2

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

Monitoring Requirements

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

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 24.108(3)

Compliance Assurance Monitoring Plan:
Solvent Bubble with Mineral Oil Absorption System

Emission Unit Information

Solvent Bubble

Emission Units: Extractor 230 tons/hr (EU GP09), Hexane Tanks (EU GP014),
DTDC – Desolventizer/Toaster/Dryer/Cooler 215 tons/hr (EU MP01)
Emission Control Technique: Mineral Oil Absorption System
Control Device Identification Number: CE GP09A
Emission Point Identification Number: EP GP09A

Applicable Requirement for EP GP09A

Pollutant: VOC

Emission Limits: 788.0 Tons/yr[1], 0.140 gallons/ton[2]
[1] : 12-month rolling total, including startup, shutdown, or malfunction
[2] : gallons of VOC lost per ton of soybeans processed. 12-month rolling total, does not include startup, shutdown, or malfunction
Authority for Requirement: State of Iowa Construction Permit Number 07-A-1078-P2

Monitoring Approach

Indicators

Indicator #1: Calculated 12-month rolling total solvent losses and solvent loss ratios

Calculations of solvent loss and grain processed, with monthly accounting adjustments, are described as a portion of the NESHAP Subpart GGGG Compliance Plan for the HAP n-Hexane, and are used monthly to directly verify compliance with the 12-month rolling VOC limits.

Indicator #2: Mineral Oil Absorption System Temperature and Flow Rate

The absorption system's mineral oil flow rate and temperature were selected as the performance indicators as they are indicative of operation of the scrubber in a manner necessary to maximize collection and reuse of hexane and minimize emissions. An excursion of these indicators out of the optimal operating range indicates a possibility of reduced performance of the scrubber.

Indicator Range

Indicator #1: Calculated 12-month rolling total solvent losses and solvent loss ratios

Calculated monthly for compliance with the BACT limits of 788.0 tons VOC/year and 0.140 gallons solvent/ton of grain processed. Calculations greater than the limits is an exceedance

Indicator #2: Mineral Oil Absorption System Temperature and Flow Rate

Monitoring the mineral oil flow rate and temperature will serve to alert the facility in circumstances when the mineral oil absorption system experiences short-term excursions. Any recorded flow rate or temperature outside of the indicator range during normal operations will signify an excursion. Normal operations do not include periods of startup or shutdown of the mineral oil system. The indicator levels for the absorption system are a mineral oil flow rate not less than 10 gallons per minute into the absorber and a mineral oil temperature not less than 180 degrees F into the stripper.

Measurement Approach

Indicator #1: Calculated 12-month rolling total solvent losses and solvent loss ratios

Solvent inventory is determined daily during normal operation of the process. Records of solvent deliveries are maintained. The amount of grain processed is estimated daily and adjusted monthly according to established accounting practices. Calculations demonstrating compliance with the VOC limits are done monthly.

Indicator #2: Mineral Oil Absorption System Temperature and Flow Rate

Oil flow entering the absorber shall be measured for flow rate and temperature shall be measured in the oil entering the stripper. The mineral oil flow rate and temperature sensors provide real-time readings which are recorded a minimum of once per day when the facility's emission unit is in operation.

Performance Criteria

The mineral oil absorption system is designed to operate at maximum control efficiency at specific mineral oil flow rate and temperature ranges. If the flow rate or temperature has drifted out of the optimal efficiency range, this is an indication of the potential for increased hexane emissions. Facility hexane losses are representative of the scrubber's operation.

Response to Excursion

Indicator #1: Calculated 12-month rolling total solvent losses and solvent loss ratios

12-month rolling total hexane emissions are used as long-term performance indicator and evaluation and corrective action regarding operating practices and conditions are an ongoing process. Calculated results greater than the permitted limits is an exceedance.

Indicator #2: Mineral Oil Scrubber Temperature and Flow Rate

When an excursion occurs, corrective action will be initiated within 8 hours, beginning with an evaluation of the occurrence to determine the action required. After any necessary corrective action has been taken, a follow-up check will be performed to insure that the indicator is within the indicator range.

Emission Point ID Number: GP013 – Emergency Lighting Generator

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Associated Equipment

Emission Unit vented through this Emission Point: GP013
Emission Unit Description: Emergency Lighting Generator
Raw Material/Fuel: Natural Gas
Rated Capacity: 0.32 MMBTU/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <40%
Authority for Requirement: Polk County Board of Health Rules and Regulations
Chapter V, Section 5-9

Pollutant: PM
Emission Limit: 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2) "a"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(3)

Pollutant: SO2
Emission Limit: 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations: Chapter V,
Article IX, Section 5-27

NESHAP
The emergency generator 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 spark ignition emergency generator, located at a HAP 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 October 19, 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 1 year + 30 days, whichever comes first. (See 63.6625(j) for the oil analysis option to extend time frame of requirements.)
2. Inspect spark plugs every 1,000 hours of operation or 1 year + 30 days , whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or 1 year + 30 days , 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, emergency demand response 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, emergency demand response and periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. 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 and emergency demand response. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, 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 spend 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.)
3. If you own or operate an emergency stationary RICE with a site rating of more than 100 bhp that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 63.6640(f)(2)(ii) and (iii), you must submit an annual report. See 40 CFR 63.6650(h) for additional information.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
Polk County Board of Health Rules and Regulations: Chapter V,
Article VIII, Section 5-20

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: GP015A Prep Building Central Vacuum Cleaning System

Associated Equipment

Associated Emission Unit ID Numbers: GP015A
Emissions Control Equipment ID Number: GP015A
Emissions Control Equipment Description: Smoot Prep Vacuum

Emission Unit vented through this Emission Point: GP015A
Emission Unit Description: Prep Building Central Vacuum System
Raw Material/Fuel: Soybean dust
Rated Capacity: 2,500 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: <40%
Authority for Requirement: Polk County Board of Health Rules and Regulations
Chapter V, Section 5-9

Pollutant: PM
Emission Limit: 0.043 lb/hr, 0.19 TPY, 0.01 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0092 Modified

Pollutant: PM_{10}
Emission Limit: 0.043 lb/hr, 0.19 TPY, 0.01 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0092 Modified

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

Stack Height (feet): 120
Stack Diameter (inches): 5
Stack Exhaust Flow Rate (acfm): 500
Stack Temperature (^{o}F): Ambient
Discharge Style: Horizontal
Authority for Requirement: Polk County Construction Permit Number 0092 Modified

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: GP016 Soybean Heater

Associated Equipment

Associated Emission Unit ID Numbers: GP016
Emissions Control Equipment ID Number: GP016A
Emissions Control Equipment Description: Pneumafil Model RAF-II 11.5x320x12 Baghouse

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Emission Unit vented through this Emission Point: GP016
Emission Unit Description: Crown Model VSC130 Soybean Heater
Raw Material/Fuel: Soybeans
Rated Capacity: 275 Tons/hour

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: <20%
Authority for Requirement: Polk County Construction Permit Number 2343 Modified

Pollutant: PM
Emission Limits: 0.25 lb/hr, 1.10 TPY, and 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 2343 Modified
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limits: 0.25 lb/hr, 1.10 TPY
Authority for Requirement: Polk County Construction Permit Number 2343 Modified

Pollutant: $PM_{2.5}$
Emission Limits: 0.25 lb/hr, 1.10 TPY
Authority for Requirement: Polk County Construction Permit Number 2343 Modified

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall not process more than 1,971,000 tons of soybeans per 12-month period, rolled monthly.
2. The facility shall record and maintain daily records of the tons of soybeans processed. Said records shall be maintained on site for a minimum period of 10 years and shall be made available to representatives of this agency upon request.

Authority for Requirement: Polk County Construction Permit Number 2343 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 72.3
Stack Diameter (inches): 30
Stack Exhaust Flow Rate (acfm): 28,000
Stack Temperature (^{o}F): 165
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County Construction Permit Number 2343 Modified

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

Monitoring Requirements

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

EP GP016 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will

be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 must 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 24.108(3)

Emission Point ID Numbers: GP019A, GP019B, GP019C, & GP019D

Associated Equipment

Associated Emission Unit ID Numbers: GP019A, GP019B, GP019C, GP019D
Emissions Control Equipment ID Numbers: GP019A, GP019B, GP019C, GP019D
Emissions Control Equipment Description: Evapco Mist Eliminator 0.0005%

Emission Units vented through this Emission Point: GP019A, GP019B, GP019C, GP019D
Emission Unit Description: 4 Cell Extraction Evapco Cooling Tower
Raw Material/Fuel: Water
Rated Capacity: 15,000 gallons/ minute

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Construction Permit Number 2823 Modified

Pollutant: PM
Emission Limits: 0.056 lb/hr, and 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 2823 Modified
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limit: 0.056 lb/hr
Authority for Requirement: Polk County Construction Permit Number 2823 Modified

Pollutant: $PM_{2.5}$
Emission Limit: 0.056 lb/hr
Authority for Requirement: Polk County Construction Permit Number 2823 Modified

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Chromium based, VOC containing, and HAP containing water treatment chemicals (i.e. biocides, fungicides, scale inhibitors, etc.) shall not be used in this emission unit.
2. A copy of the Safety Data Sheets (SDS) for each water treatment chemical used in this emission unit shall be kept on site.
3. The total dissolved solids (TDS) of the water used shall not exceed 1,500 ppm.
4. The drift eliminator (CE GP019A/B/C/D) shall be designed to meet a control efficiency of 0.0005% (gallons of drift per gallon of cooling water flow) or better.
5. A minimum of one TDS Water Sampling analysis shall be conducted each month. If more than one analysis is conducted, the average of the analyses shall be used to demonstrate compliance.
6. Record the analysis of the TDS of the water used on a monthly basis.

Authority for Requirement: Polk County Construction Permit Number 2823 Modified

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height (feet): 24.5
Stack Diameter (inches): 160
Stack Exhaust Flow Rate (scfm): 204,500 (per cell)
Stack Temperature (^{o}F): 78
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County Construction Permit Number 2823 Modified

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

Monitoring Requirements

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

EP GP019A/B/C/D shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 24.108(3)

Emission Point ID Numbers: GP021, GP022, & GP023

Associated Equipment

EP	EU	Emission Unit Description	Raw Material	Rated Capacity	Polk County Permit Number
GP021	GP021	Extraction – Diesel Fire Pump	#2 Fuel Oil	455 hp	4027
GP022	GP022	Extraction – Diesel Fire Pump	#2 Fuel Oil	455 hp	4028
GP023	GP023	Extraction – Diesel Fire Pump	#2 Fuel Oil	455 hp	4029

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <40 %
Authority for Requirement: Polk County Construction Permit Numbers 4027, 4028, 4029
Chapter V, Article IV, Section 5-9

Pollutant: PM
Emission Limit: 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Numbers 4027, 4028, 4029
567 IAC 23.3 (2) "a"
Chapter V, Article VI, Section 5-14(3) "a" (1)

Pollutant: PM_{10}
Emission Limit: 0.16 lb/hr
Authority for Requirement: Polk County Construction Permit Numbers 4027, 4028, 4029

Pollutant: $PM_{2.5}$
Emission Limit: 0.16 lb/hr
Authority for Requirement: Polk County Construction Permit Numbers 4027, 4028, 4029

Pollutant: SO_2
Emission Limit: 0.5% by weight
Authority for Requirement: Polk County Construction Permit Numbers 4027, 4028, 4029
Chapter V, Article IX, Section 5-27(2) "a"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

NESHAP:

These emergency engines are 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)(2)(ii) these compression ignition emergency engines, located at a major source, are new stationary RICE as they were constructed on or after June 12, 2006.

According to 40 CFR 63.6590(c)(6), these emergency engines must meet the requirements of subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart IIII for compression ignition engines. No further requirements apply for this emergency engine under subpart ZZZZ.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

New Source Performance Standards (NSPS):

These engines are subject to the following requirements of 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Internal Combustion Engines:

(1) In accordance with 40 CFR §60.4211(c), the engine must be certified by its manufacturer to comply with the emissions standards for emergency engines from 40 CFR §60.4205(c) and 40 CFR §60.4202(d). The emission standards that the engine must be certified by the manufacturer to meet are:

NSPS Certification Standards

Pollutant	Emission Standard	Basis/Reference
Particulate Matter (PM)	0.15 grams/HP-hr	NSPS Subpart IIII, Table 4
NMHC + NO_x	3.0 grams/HP-hr	NSPS Subpart IIII, Table 4
Carbon Monoxide (CO)	2.6 grams/HP-hr	NSPS Subpart IIII, Table 4

(2) In accordance with 40 CFR §60.4211(c), the owner or operator must comply with the required NSPS emissions standards by purchasing an engine certified by its manufacturer to meet the applicable emission standards for the same model year and engine power. The engine must be installed and configured to the manufacturer's specifications. Provided these requirements are satisfied, no further demonstration of compliance with the emission standards from 40 CFR §60.4205(c) and 40 CFR §60.4202(d) is required. However, if the engine is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, a compliance demonstration is required in accordance with 40 CFR §60.4211(g).

NOTE: The absence of the inclusion of any NSPS requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NSPS conditions.

(3) Each engine is limited to operating a maximum of 400 hours in any rolling 12-month period.

(4) Each engine:

(1) Is limited to operate as an emergency stationary internal combustion engine as defined in 40 CFR §60.4219 and in accordance with 40 CFR §60.4211(f). There is no time limit on the use of the engine in emergency situations provided that the annual hourly limit established in Condition 3 (above). is not exceeded. In accordance with 40 CFR §60.4211(f)(2), the engine is limited to operate a maximum of 100 hours per calendar year for maintenance checks and readiness testing.

(2) Is also allowed to operate up to 50 hours per calendar year in non-emergency situations in accordance with 40 CFR §60.4211(f)(3), but the 50 hours are counted toward the 100 hours provided for maintenance and testing. The 50 hours per calendar year for non-emergency operation cannot be used for peak shaving or non-emergency demand response or to generate income for the facility to supply power to the electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity.

(5) In accordance with 40 CFR §60.4209(a), each engine shall be equipped with a non-resettable hour meter.

(6) The owner or operator shall maintain the following monthly records:

(1) the number of hours that each engine operated for maintenance checks and readiness testing;

(2) the number of hours that each engine operated for allowed non-emergency service and the reason for the non-emergency operation;

(3) the number of hours that each engine operated for emergency service and the reason for the emergency operation [See 40 CFR §60.4214(b)];

(4) the total number of hours that each engine operated; and

(5) the rolling 12-month total amount of the number of hours that the engine operated.

(7) The owner or operator shall maintain the following annual records:

a. the number of hours that each engine operated for maintenance checks and readiness testing;

b. the number of hours that each engine operated for allowed non-emergency operations; and

c. the total number of hours thateach engine operated for maintenance checks, readiness testing, and allowed non-emergency operations.

(8) In accordance with §60.4207(b), the diesel fuel burned in these engines shall meet the following specifications from 40 CFR 1090.305 for ultra-low sulfur diesel (ULSD):

Diesel Fuel Specifications

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

(1) The owner or operator shall comply with the requirements listed above by one of the following methods:
   a. have the fuel supplier certify that the fuel delivered meets the of non-road diesel fuel ULSD as defined in 40 CFR 1090.80; or
   b. obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
   c. perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.

(9) The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR §60.4211(g).

(10) In accordance with 40 CFR §60.4211(a), the engine shall be operated and maintained in accordance with the manufacturer's emission-related written instructions. Except as permitted in 40 CFR §60.4211(g), the owner or operator may only change emission-related engine settings that are permitted by the manufacturer.

(11) The fire pump shall be operated in a manner consistent with the definition of an emergency stationary internal combustion fire pump engine per §60.4219.

(12) The owner or operator shall complete all applicable monitoring, compliance, notification, reporting, and recordkeeping requirements as required by NSPS Subpart IIII not specifically listed in this permit:
   (1) The owner or operator of the engine shall follow the monitoring requirements of 40 CFR §60.4209.
   (2) The owner or operator of the engine shall follow the compliance requirements of 40 CFR §60.4211.
   (3) The owner or operator of the engine shall follow the notification, reporting, and recordkeeping requirements of 40 CFR §60.4214(b).

(13) Any required compliance testing shall be performed according to the methods and procedures of §60.4212.

Authority for Requirement: Polk County Construction Permit Numbers 4027, 4028, 4029
40 CFR §63.6600(d), subpart ZZZZ
567 IAC 23.1(4)"cz"
Chapter V, Article VIII, Section 5-20

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height (feet): 20
Stack Diameter (inches): 8
Stack Exhaust Flow Rate (scfm): 1,065
Stack Temperature (^{o}F): 952

Discharge Style: Vertical, unobstructed
Authority for Requirement: Polk County Construction Permit Numbers 4027, 4028, 4029

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: HR01A – Conveying to Aspirator/Whole Bean Aspiration; Secondary Aspiration/ Hull Gravity Tables

Associated Equipment

Associated Emission Unit ID Numbers: GP011, HR01A
Emissions Control Equipment ID Number: HR01A
Emissions Control Equipment Description: Pneumafil Model 13.5x460x10 Baghouse

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
HR01A	GP011	Conveying to Aspirator/Whole Bean Aspiration	Soybeans	250 Tons/hr
HR01A	HR01A	Secondary Aspiration, Hull Gravity Tables	Soybeans	250 Tons/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: <20%
Authority for Requirement: Polk County Construction Permit Number 2531 Modified #2

Pollutant: PM
Emission Limit: 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 2531 Modified #2
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limit: 0.75 lb/hr
Authority for Requirement: Polk County Construction Permit Number 2531 Modified #2

Pollutant: $PM_{2.5}$
Emission Limit: 0.75 lb/hr
Authority for Requirement: Polk County Construction Permit Number 2531 Modified #2

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall not process more than 1,971,000 tons of soybeans per 12-month period, rolled monthly.
2. The owner or operator shall record the following:
   a. The amount of soybeans processed per hour (both in bushels and tons) for each hour of operation,
   b. The amount of soybeans processed per day (both in bushels and tons) for each day of operation,
   c. The total amount of soybeans processed per month (both in bushels and tons) for each month of operation, and
   d. The annual amount of soybeans processed (both in bushels and tons) on a rolling 12-month basis for each month of operation.
3. The owner or operator shall maintain and operate the equipment, including control equipment, at all times in a manner consistent with good practice for minimizing emissions.
4. Control equipment (baghouse) shall be used at all times while the EU HR01A and EU GP011 are in operation.
5. The owner or operator shall perform routine maintenance and inspections as per manufacturer's guidance for the product line equipment and control equipment (baghouse).
6. The owner or operator shall maintain records of maintenance activities on the EU HR01A and EU GP011 equipment, including control equipment (baghouse).

Authority for Requirement: Polk County Construction Permit Number 2531 Modified #2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 110
Stack Diameter (inches): 48
Stack Exhaust Flow Rate (scfm): 31,955
Stack Temperature (^{o}F): 80
Discharge Style: Vertical, unobstructed
Authority for Requirement: Polk County Construction Permit Number 2531 Modified #2

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

Monitoring Requirements

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

EP HR01A shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 24.108(3)

Emission Point ID Number: HR02A – Hull Grinding

Associated Equipment

Emissions Control Equipment ID Number: HR02A
Emissions Control Equipment Description: Donaldson Model 124RFW8 Baghouse

Emission Unit vented through this Emission Point: HR02A
Emission Unit Description: Hull Grinding
Raw Material/Fuel: Hulls
Rated Capacity: 19.25 Tons/hour

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: <20%
Authority for Requirement: Polk County Construction Permit Number 0100 Modified #7

Pollutant: PM
Emission Limits: 0.29 lb/hr, 0.59 TPY, and 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0100 Modified #7
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limits: 0.29 lb/hr, 0.59 TPY
Authority for Requirement: Polk County Construction Permit Number 0100 Modified #7

Pollutant: $PM_{2.5}$
Emission Limits: 0.29 lb/hr, 0.59 TPY
Authority for Requirement: Polk County Construction Permit Number 0100 Modified #7

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall not process more than 1,971,000 tons of soybeans per 12 month period, rolled monthly.
2. The facility shall record and maintain daily records of the tons of soybeans processed. Said records shall be maintained on site for a minimum period of 10 years and shall be made available to representatives of this agency upon request.

Authority for Requirement: Polk County Construction Permit Number 0100 Modified #7

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 90
Stack Diameter (inches): 30
Stack Exhaust Flow Rate (scfm): 12,300
Stack Temperature: Ambient
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County Construction Permit Number 0100 Modified #7

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

Monitoring Requirements

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

EP HR02A shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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 $\geq$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. The log book will

be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 24.108(3)

Emission Point ID Number: HR03 – Pellet Cooler

Associated Equipment

Associated Emission Unit ID Numbers: HR03
Emissions Control Equipment ID Number: HR03
Emissions Control Equipment Description: Carter Day Cyclone Model Number HV74

Emission Unit vented through this Emission Point: HR03
Emission Unit Description: Pellet Cooler
Raw Material/Fuel: Hulls
Rated Capacity: 14.5 Tons/ 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: <20%
Authority for Requirement: Polk County Construction Permit Number 2827 Modified #2

Pollutant: PM
Emission Limit: 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 2827 Modified #2
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limit: 0.65 lb/hr
Authority for Requirement: Polk County Construction Permit Number 2827 Modified #2

Pollutant: $PM_{2.5}$
Emission Limit: 0.65 lb/hr
Authority for Requirement: Polk County Construction Permit Number 2827 Modified #2

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Maximum capacity of EU HR03A (Pellet Cooler) shall not exceed 14.5 tons per hour.
2. The facility (plant number 77-01-045) shall not process more than 1,971,000 tons of soybeans per 12-month period, rolled monthly. The owner or operator shall record the following:
    a. The amount of soybeans processed per hour (both in bushels and tons) for each hour of operation,
    b. The amount of soybeans processed per day (both in bushels and tons) for each day of operation,
    c. The total amount of soybeans processed per month (both in bushels and tons) for each month of operation, and
    d. The annual amount of soybeans processed (both in bushels and tons) on a rolling 12-month basis for each month of operation.
3. The frequency (Hz) across both pellet mills shall not exceed 90 Hz.
4. The owner/operator shall collect and record the Hz of the pellet mill feeders with a Continuous Parameter Monitoring System (CPMS).
5. The CPMS data will be reduced and recorded as hourly averages. These records shall be maintained for a minimum period of 10 years.

Authority for Requirement: Polk County Construction Permit Number 2827 Modified #2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 120
Stack Diameter (inches): 24
Stack Exhaust Flow Rate (scfm): 11,170
Stack Temperature (^{o}F): 90
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County Construction Permit Number 2827 Modified #2

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

Monitoring Requirements

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

EP HR03 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 24.108(3)

Emission Point ID Number: MP01 – Crown Desolventizer Toaster Dryer Cooler (DTDC)

Associated Equipment

EU ID	DTDC	Components	Maximum Rated Capacity	Control Equipment Description and ID
MP01	Vessel 1-Desolventizer/ Toaster	(3) Pre-desolventizing trays	215 ton/hr	NA
		(4) Desolventizing decks		NA
		(1) Sparge tray		NA
		(1) Vapor recovery tray		NA
	Vessel 2-Dryer/Cooler (6-trays with cyclones operating in parallel)	Tray A		Cyclone (CE MP01 A)
		Tray B		Cyclone (CE MP01 B)
		Tray C		Cyclone (CE MP01 C)
		Tray D		Cyclone (CE MP01 D)
		Tray E		Cyclone (CE MP01 E)
		Tray F		Cyclone (CE MP01 F)

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%[(1)]
Authority for Requirement: Polk County Construction Permit Number 1626 Modified #5
[(1)]An exceedance of the indicator opacity of no visible emissions 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 Local Program may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM
Emission Limit: 0.1 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 1626 Modified #5
Polk County Board of Health Rules and Regulations

Pollutant: PM_{10}
Emission Limit: 3.37 lb/hr
Authority for Requirement: Polk County Construction Permit Number 1626 Modified #5

Pollutant: $PM_{2.5}$
Emission Limit: 3.37 lb/hr
Authority for Requirement: Polk County Construction Permit Number 1626 Modified #5

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall not process more than 1,971,000 tons of soybeans per 12 month period, rolled monthly. The owner or operator shall record the following:
    a. The amount of soybeans processed per hour (both in bushels and tons) for each hour of operation,
    b. The amount of soybeans processed per day (both in bushels and tons) for each day of operation,
    c. The total amount of soybeans processed per month (both in bushels and tons) for each month of operation, and
    d. The annual amount of soybeans processed (both in bushels and tons) on a rolling 12-month basis for each month of operation.
2. The owner or operator shall maintain and operate the equipment, including control equipment, at all times in a manner consistent with good practice for minimizing emissions.
3. Control equipment (cyclones) shall be used at all times while the DTDC equipment is in operation.
4. The owner or operator shall perform routine maintenance and inspections as per manufacturer's guidance for the DTDC equipment and control equipment (cyclones).
5. The owner or operator shall maintain records of maintenance activities on the DTDC equipment, including control equipment (cyclones).

For the purposes of Prevention of Significant Deterioration (PSD) determination:

6. In accordance with 567 IAC 33.3(18) "f"(1), prior to beginning actual construction of the DTDC Upgrade Project, the owner or operator shall document:
    (1) A description of the DTDC Upgrade Project,
    (2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by the DTDC Upgrade Project, and
    (3) A description of the applicability test used to determine that the DTDC Upgrade 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.

7. In accordance with 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 DTDC Upgrade Project that is emitted by any emissions unit identified in Condition F.(2).
   (2) Calculate and record the annual emissions, in tons per year on a calendar-year basis, for a period of 10 years following resumption of regular operations and maintain a record of regular operations after the change.
8. In accordance with 567 IAC 33.3(18) "f"(5), the owner or operator shall retain a written record containing the information required in Condition G. of this permit for a period of 10 years after the date of permit issuance.
9. In accordance with 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 this agency or the general public pursuant to the requirements for Title V operating permits contained in 567 IAC 24.107(6).

Authority for Requirement: Polk County Construction Permit Number1626 Modified #5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 120
Stack Diameter (inches): 60
Stack Exhaust Flow Rate (scfm): 96,000
Stack Temperature (^{o}F): 140
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County Construction Permit Number 1626 Modified #5

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

Monitoring Requirements

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

EP MP01 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 24.108(3)

Emission Point ID Number: MP02A – Meal Grinding / Meal Transfer / Flowability Agent Silo / Concrete Meal Storage Tank #2 / Hull Pellet Storage Tank

Associated Equipment

EU	Emission Unit Description	Raw Material	Rated Capacity	Control Equipment Description and ID
MP02A	Meal Grinding	Bean Meal	215 Tons/hr	CE MP02A: Baghouse
MP03	Meal Transfer	Bean Meal	215 Tons/hr	
MP04	Flowability Agent Silo	Flowability Agent	215 Tons/hr	
MP08B	Concrete Meal Storage Tank #2	Bean Meal	215 Tons/hr	
HR04	Hull Pellet Storage Tank	Hulls	19.25 Tons/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: <20%
Authority for Requirement: Polk County Construction Permit Number 0090 Modified #6

Pollutant: PM
Emission Limit: 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0090 Modified #6
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limit: 0.67 lb/hr
Authority for Requirement: Polk County Construction Permit Number 0090 Modified #6

Pollutant: $PM_{2.5}$
Emission Limit: 0.67 lb/hr
Authority for Requirement: Polk County Construction Permit Number 0090 Modified #6

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- The facility (plant number 77-01-045) shall not process more than 1,971,000 tons of soybeans per 12-month period, rolled monthly
- The owner or operator shall maintain and operate the equipment, including control equipment, at all times in a manner consistent with good practice for minimizing emissions.
- Control equipment (baghouse) shall be used at all times while the Meal System (EU: MP02A, MP03, MP04, MP08B, and HR04) is in operation.
- The owner or operator shall perform routine maintenance and inspections as per manufacturer's guidance for the product line equipment and control equipment (baghouse).
- The owner or operator shall maintain records of maintenance activities on the Meal System (EU: MP02A, MP03, MP04, MP08B, and HR04) equipment, including control equipment (baghouse).
- The owner or operator shall record the following:
    a. The amount of soybeans processed per hour (both in bushels and tons) for each hour of operation,
    b. The amount of soybeans processed per day (both in bushels and tons) for each day of operation,
    c. The total amount of soybeans processed per month (both in bushels and tons) for each month of operation, and
    d. The annual amount of soybeans processed (both in bushels and tons) on a rolling 12-month basis for each month of operation.

Authority for Requirement: Polk County Construction Permit Number 0090 Modified #6

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet): 120
Stack Diameter (inches): 34
Stack Exhaust Flow Rate (scfm): 23,840
Stack Temperature (^{o}F): 81
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County Construction Permit Number 0090 Modified #6

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

Monitoring Requirements

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

EP MP02A shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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 $\geq$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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 must 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 24.108(3)

Emission Point ID Number: MP06A – Meal Conveying & Meal Loading

Associated Equipment

EU	Emission Unit Description	Raw Material	Rated Capacity	Control Equipment Description and ID
MP05	Meal Conveying	Bean Meal	350 Tons/hr	CE MO06A: Baghouse
MP06	Meal Loading	Bean Meal	350 Tons/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: <20%
Authority for Requirement: Polk County Construction Permit Number 2128 Modified #2

Pollutant: PM
Emission Limits: 0.75 lb/hr, 3.29 TPY, and 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 2128 Modified #2
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limits: 0.75 lb/hr, 3.29 TPY
Authority for Requirement: Polk County Construction Permit Number 2128 Modified #2

Pollutant: $PM_{2.5}$
Emission Limits: 0.75 lb/hr, 3.29 TPY
Authority for Requirement: Polk County Construction Permit Number 2128 Modified #2

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall not process more than 1,971,000 tons of soybeans per 12 month period, rolled monthly.
2. The facility shall record and maintain daily records of the tons of soybeans processed. Said records shall be maintained on site for a minimum period of 10 years and shall be made available to representatives of this agency upon request.

Authority for Requirement: Polk County Construction Permit Number 2128 Modified #2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30
Stack Diameter (inches): 46
Exhaust Flow Rate (acfm): 40,150
Exhaust Temperature (^{o}F): Ambient
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County Construction Permit Number 2128 Modified #2

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

Monitoring Requirements

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

EP MP06A shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 must 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 24.108(3)

Emission Point ID Number: MP07A – Meal Rail Loadout

Associated Equipment

Emissions Control Equipment ID Number: MP07A
Emissions Control Equipment Description: MAC Model 144MPH416 Baghouse

Emission Unit vented through this Emission Point: MP07
Emission Unit Description: Meal Rail Loadout
Raw Material/Fuel: Meal
Rated Capacity: 250 Tons/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: <20%
Authority for Requirement: Polk County Construction Permit Number 0105 Modified #4

Pollutant: PM
Emission Limit : 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0105 Modified #4
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limit: 0.75 lb/hr
Authority for Requirement: Polk County Construction Permit Number 0105 Modified #4

Pollutant: $PM_{2.5}$
Emission Limit: 0.75 lb/hr
Authority for Requirement: Polk County Construction Permit Number 0105 Modified #4

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall not process more than 1,971,000 tons of soybeans per 12 month period, rolled monthly.
2. The owner or operator shall maintain and operate the equipment, including control equipment, at all times in a manner consistent with good practice for minimizing emissions.
3. Control equipment (baghouse) shall be used at all times while the EU MP07 is in operation.
4. The owner or operator shall perform routine maintenance and inspections as per manufacturer's guidance for the product line equipment and control equipment (baghouse).
5. The owner or operator shall maintain records of maintenance activities on the EU MP07 equipment, including control equipment (baghouse).
6. The owner or operator shall record the following:
    a. The amount of soybeans processed per hour (both in bushels and tons) for each hour of operation,
    b. The amount of soybeans processed per day (both in bushels and tons) for each day of operation,
    c. The total amount of soybeans processed per month (both in bushels and tons) for each month of operation, and
    d. The annual amount of soybeans processed (both in bushels and tons) on a rolling 12-month basis for each month of operation.

Authority for Requirement: Polk County Construction Permit Number 0105 Modified #4

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 90
Stack Diameter (inches): 34
Exhaust Flow Rate (scfm): 17,667
Exhaust Temperature (^{o}F): Ambient
Discharge Style: Vertical, unobstructed
Authority for Requirement: Polk County Construction Permit Number 0105 Modified #4

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

Monitoring Requirements

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

EP MP07A shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 must 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 24.108(3)

Emission Point ID Number: MP010 – Meal/Hull Unloading Pit

Associated Equipment

Emission Unit vented through this Emission Point: MP010
Emission Unit Description: Meal/Hull Unloading Pit
Raw Material/Fuel: Soybean meal and hulls
Rated Capacity: 260 tons/hour

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: 5%
Authority for Requirement: Polk County Construction Permit Number 1775

Pollutant: PM
Emission Limit: 28.22 lb/hr, 1.62 TPY, and 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 1775
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limit: 10.15 lb/hr, 0.59 TPY
Authority for Requirement: Polk County Construction Permit Number 1775

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility is limited to receiving 21,000 tons of meal and 2,000 tons of hulls/ hull pellets per 12 month period rolled monthly in EU MP010.
2. The facility shall maintain a log of the amount of meal, hulls and hull pellets received in EU MP010. The amounts shall be totaled monthly and a rolling 12 month total shall be recorded.
3. Said log shall be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Construction Permit Number 1775

Monitoring Requirements

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

EP MP10 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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 > 5% 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 24.108(3)

Emission Point ID Number: R01 – Filter Aid Receiving/Storage

Associated Equipment

Associated Emission Unit ID Number : R01
Emissions Control Equipment ID Number: R01
Emissions Control Equipment Description: Flex-Kleen Model 84-BV-9 Baghouse

Emission Unit vented through this Emission Point: R01
Emission Unit Description: Filter Aid Receiving/Storage
Raw Material/Fuel: Filter Aid
Rated Capacity: 6 Tons/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: <40%
Authority for Requirement: Polk County Board of Health Rules and Regulations
Chapter V, Section 5-9

Pollutant: PM
Emission Limit: 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0366
Polk County Board of Health Rules and Regulations
Chapter V, Section 5-14(3)

Monitoring Requirements

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

EP R01 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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 ≥40% 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 must 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 24.108(3)

Emission Point ID Number: R02 – Bleaching Clay Receiving/Storage

Associated Equipment

Associated Emission Unit ID Numbers: R02
Emissions Control Equipment ID Number: R02
Emissions Control Equipment Description: Flex-Kleen Model # 84-BV-9 Baghouse

Emission Unit vented through this Emission Point: R02
Emission Unit Description: Bleaching Clay Receiving/Storage
Raw Material/Fuel: Bleaching Clay
Rated Capacity: 7.5 Tons/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: <40%
Authority for Requirement: Polk County Board of Health Rules and Regulations
Chapter V, Section 5-9

Pollutant: PM
Emission Limit: 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0367
Polk County Board of Health Rules and Regulations
Chapter V, Section 5-14(3)

Monitoring Requirements

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

EP R02 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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 ≥40% 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 must 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 24.108(3)

Emission Point ID Number: R03 – Slurry/Precoat Tanks

Associated Equipment

Associated Emission Unit ID Number: R03
Emissions Control Equipment ID Number: R03
Emissions Control Equipment Description: Ducon Model # 3 Scrubber

Emission Unit vented through this Emission Point: R03
Emission Unit Description: Slurry/Precoat Tanks
Raw Material/Fuel: Filter Aid/Bleaching Clay/Vegetable Oil
Rated Capacity: 1.6 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: <20%
Authority for Requirement: Polk County Construction Permit Number 0414 Modified #2

Pollutant: PM
Emission Limits: 0.90 lb/hr, 3.94 Tons/yr, 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0414 Modified #2
Polk County Board of Health Rules and Regulations
Chapter V, Section 5-14(3)

Pollutant: PM_{10}
Emission Limits: 0.90 lb/hr, 3.94 Tons/yr, 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0414 Modified #2

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall not process more than 1,971,000 tons of soybeans per 12 month period, rolled monthly.
2. The facility shall record and maintain daily records of the tons of soybeans processed. Said records shall be maintained on site for a minimum period of 10 years and shall be made available to representatives of this agency upon request.

Authority for Requirement: Polk County Construction Permit Number 0414 Modified #2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 29.5
Stack Diameter (inches): 12
Exhaust Flow Rate (acfm): 1,600
Exhaust Temperature (^{o}F): 150
Discharge Style: Vertical Unobstructed
Authority for Requirement: Polk County Construction Permit Number 0414 Modified #2

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

Monitoring Requirements

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

EP R03 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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 $\geq$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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 must 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 24.108(3)

Emission Point ID Number: R04 – Filter Aid/ Bleaching Clay Day Bins

Associated Equipment

Associated Emission Unit ID Number: R04
Emissions Control Equipment ID Number: R04A, R04B
Emissions Control Equipment Description: 2-Torrit Day Model Number 84-OB Bag-filters (R04A, R04B)

Emission Unit vented through this Emission Point: R04
Emission Unit Description: Day Bins
Raw Material/Fuel: Filter Aid/ Bleaching Clay
Rated Capacity: 1.6 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: <40%
Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Section 5-9

Pollutant: PM
Emission Limit: 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permits Numbered 0368, 0369
Polk County Board of Health Rules and Regulations Chapter V, Section 5-14 (3)

Monitoring Requirements

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

EP R04 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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 ≥40% 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 must 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 24.108(3)

Emission Point ID Number: R06 – Refinery Cooling Tower

Associated Equipment

Emission Unit vented through this Emission Point: R06
Emission Unit Description: 3 cell Refinery Cooling Tower
Raw Material/Fuel: Water
Rated Capacity: 6,000 gallon/ minute

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: <40%
Authority for Requirement: Polk County Board of Health Rules and Regulations
Chapter V, Section 5-9

Pollutant: PM
Emission Limits: 0.45 lb/hr, 1.97 Tons/yr, 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 2134
Polk County Board of Health Rules and Regulations
Chapter V, Section 5-14

Pollutant: PM_{10}
Emission Limits: 0.225 lb/hr, 0.99 TPY, 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 2134

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The owner or operator shall not use any chromium based water treatment chemicals in the cooling tower.
2. The owner or operator shall not use any water treatment chemicals in the cooling tower containing VOC or HAP compounds.
3. Technical Data Sheets of all additives to the cooling tower shall be maintained on-site.
4. The Total Dissolved Solids (TDS) level shall not exceed 3,000 mg/l.

5. The owner or operator shall install a continuous conductivity monitor. The conductivity monitor shall initiate blowdown when the conductivity reaches a level equivalent to a TDS concentration of no greater than 3,000 mg/l
6. All records required above shall be maintained on-site for a period of five (5) years and shall be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Construction Permit Number 2134

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: R08 – Detroit Diesel Allison Diesel Fire Pump at Refinery

Associated Equipment

Emission Unit vented through this Emission Point: R08
Emission Unit Description: Detroit Diesel Allison Diesel Fire Pump at Refinery
Raw Material/Fuel: Diesel
Rated Capacity: 357 hp (18.2 gallons/hour)

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: <20%
Authority for Requirement: Polk County Construction Permit Number 3411 Modified

Pollutant: PM
Emission Limit: 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 3411 Modified
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limit: 0.79 lb/hr
Authority for Requirement: Polk County Construction Permit Number 3411 Modified

Pollutant: $PM_{2.5}$
Emission Limit: 0.79 lb/hr
Authority for Requirement: Polk County Construction Permit Number 3411 Modified

Pollutant: SO_2
Emission Limit: 0.5 lb/MMBtu
Authority for Requirement: Polk County Construction Permit Number 3411 Modified
Polk County Board of Health Rules and Regulations
Chapter V, Article IX, Section 5-27

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

NESHAP Requirements:

Operation and Maintenance Requirements 40 CFR 63.6603, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or 1 year + 30 days, 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 1 year + 30 days , whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or 1 year + 30 days , 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. Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), 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 2 of Table 2c for more information).

Operational Limits:

1. Operation shall be limited to five-hundred (500) hours per twelve (12) month period rolled and totaled monthly.
2. A non-resettable totalizing hour meter shall be installed on the unit.
3. The owner or operator shall maintain the following monthly records:
    a. the number of hours that the engine is operated for maintenance checks and readiness testing.
    b. the number of hours that the engine is operated for allowed non-emergency operations.
    c. the total number of hours that the engine is operated.
    d. each of the above records shall include the rolling 12-month total of hours for each category of operation (i.e. maintenance and readiness testing, non-emergency use, total hours of operation).
4. The owner or operator shall maintain the following annual records:
    a. the number of hours that the engine operated for maintenance checks and readiness testing;
    b. the number of hours that the engine operated for allowed non-emergency operations; and
    c. the total number of hours that the engine operated for maintenance checks, readiness testing, and allowed non-emergency operations.
5. Sulfur content of fuel shall not exceed 0.05%. Fuel supplier certification of sulfur content shall be kept on site for each delivery of fuel oil purchased.

Authority for Requirement: Polk County Construction Permit Number 3411 Modified
40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
Polk County Board of Health Rules and Regulations
Chapter V, Article VIII, Section 5-20

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

Stack Height (feet): 20
Stack Diameter (inches): 6
Stack Exhaust Flow Rate (scfm): 540
Stack Temperature (^{o}F): 820
Discharge Style: Vertical, unobstructed
Authority for Requirement: Polk County Construction Permit Number 3411 Modified

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: R09 – Refinery - Steam Generator

Associated Equipment

Emission Unit vented through this Emission Point: R09
Emission Unit Description: Refinery - Steam Generator
Raw Material/Fuel: Natural Gas
Rated Capacity: 13.853 MM BTU/ hr; 13,581 ft^3/ 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: <20%
Authority for Requirement: Polk County Construction Permit Number 4006

Pollutant: PM
Emission Limit: 0.6 lb/MMBtu
Authority for Requirement: Polk County Construction Permit Number 4006
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(3)b

Pollutant: PM_{10}
Emission Limit: 0.06 lb/hr
Authority for Requirement: Polk County Construction Permit Number 4006

Pollutant: $PM_{2.5}$
Emission Limit: 0.06 lb/hr
Authority for Requirement: Polk County Construction Permit Number 4006

Pollutant: SO_2
Emission Limit: 500ppmv
Authority for Requirement: Polk County Construction Permit Number 4006
Polk County Board of Health Rules and Regulations
Chapter V, Article IX, Section 5-27

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

New Source Performance Standards (NSPS):

The following subparts apply to the listed emission unit in this permit:

Subpart	Title	Type	State Reference (567 IAC)	Federal Reference (40 CFR)
A	General Provisions	NA	23.1(2)	§60.1 – §60.19
Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	Natural Gas	23.1(2)"lll"	§60.40c – §60.48c

Authority for Requirement: Polk County Construction Permit Number 4006
40 CFR Part 60 Subpart Dc

National Emission Standards for Hazardous Air Pollutants (NESHAP):

This emission unit (EU R09) is subject to the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR §63.7480 – §63.7575, Subpart DDDDD).

Authority for Requirement: Polk County Construction Permit Number 4006
40 CFR Part 63 Subpart DDDDD

1. (EU R09) is limited to firing on natural gas.
2. The owner or operator shall operate and maintain this emission unit (EU R09) in accordance with manufacturer's specifications. The owner or operator shall maintain a log of all inspections and maintenance activities performed on the emission unit (EU R09). This log shall include, but is not limited to:
    a. The date and time any inspection and/or maintenance was performed on the emission unit (EU R09);
    b. Any issues identified during the inspection and the date each issue was resolved;
    c. Any issues addressed during the maintenance activities and the date each issue was resolved;
    d. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: Polk County Construction Permit Number 4006

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

Stack Height (feet): 45.0
Stack Diameter (inches): 48
Stack Exhaust Flow Rate (scfm): 3,705
Stack Temperature (^{o}F): 653
Discharge Style: Vertical Unobstructed
Authority for Requirement: Polk County Construction Permit Number 4006

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: U03 Rail Receiving #1/ Conveying and U03F Rail Receiving #1 Fugitive Emissions

Associated Equipment

Associated Emission Unit ID Numbers: U03
Emissions Control Equipment ID Number: U03
Emissions Control Equipment Description: Donaldson Model 232-RFW-12 Baghouse

Emission Unit vented through this Emission Point: U03
Emission Unit Description: Rail Receiving #1/ Conveying and Rail Receiving #1 Fugitive Emissions
Raw Material/Fuel: Soybeans
Rated Capacity: 960 tons/hour

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from Emission Point U03 shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limits: None allowed
Authority for Requirement: Polk County Construction Permit Number 0802 Modified
40 CFR60 Subpart DD
567 IAC 23.1(2)"ooo"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16 (14)

Pollutant: PM
Emission Limits: 2.57 lb/hr, 11.26 Tons/yr, 0.01 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0802 Modified
40 CFR60 Subpart DD
567 IAC 23.1(2)"ooo"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16 (14)

Pollutant: PM/ PM_{10}
Emission Limits: 2.57 lb/hr, 11.26 Tons/yr, 0.01 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0802 Modified

The emissions from Emission Point U03F shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: 5%
Authority for Requirement: Polk County Construction Permit Number 0802 Modified
40 CFR60 Subpart DD
567 IAC 23.1(2)"ooo"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16 (14)

Pollutant: PM
Emission Limits: 1.54 lb/hr, 6.73 Tons/yr, 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0802 Modified
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14 (3)

Pollutant: PM_{10}
Emission Limits: 0.37 lb/hr, 1.64 Tons/yr
Authority for Requirement: Polk County Construction Permit Number 0802 Modified
40 CFR60 Subpart DD
567 IAC 23.1(2)"ooo"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16 (14)

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

Stack Height (feet): 28 minimum above grade
Stack Diameter (inches): 42
Stack Exhaust Flow Rate (acfm): 30,000
Stack Temperature (^{o}F): Ambient
Discharge Style: Vertical with Obstructing Rain Cap
Authority for Requirement: Polk County Construction Permit Number 0802 Modified

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

Monitoring Requirements

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

EP U03F shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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 fugitive emissions greater than five percent (5%) opacity 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 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Stack Testing:

Pollutant - PM
Stack Test to be Completed by (date) -
Test Method - 40 CFR Part 51, Appendix M, Method 202
in conjunction with a Method 201A
Authority for Requirement: 567 IAC 24.108(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)

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

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

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

Compliance Assurance Monitoring Plan:
Rail Receiving Number 1/ Conveying with Baghouse

Emission Unit Information

Grain Rail Receiving/Conveying

Emission Unit: Rail Receiving #1/ Conveying (U03)
Emission Control Technique: Baghouse
Control Device Identification Number: CE U03
Emission Point Identification Number: EP U03

Emissions generated by the grain rail receiving pit and conveying system are controlled by baghouse CE U03. Emission Point EP U03 is the exhaust for baghouse CE U03.

Applicable Requirement for U03

Pollutant: PM/PM_{10}
Emission Limits: 2.57 lb/hr, 11.26 Tons/yr, 0.01 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 0802 Modified
40 CFR60 Subpart DD
567 IAC 23.1(2)"ooo"
Polk County Chapter V, Article VI, Section 5-16 (14)

Monitoring Approach

Indicators

Indicator #1: Opacity (Visible Emission)

Visible Emissions (opacity) was selected as a performance indicator because it is indicative of good operation and maintenance of the baghouse. When the baghouse is operating optimally, there will be little to no visible emissions from the exhaust. In general, an increase in visible emissions indicates reduced performance of the baghouse.

Indicator #2: Pressure Drop
Pressure range across the filter bags in an indicator of baghouse performance. A pressure change outside the indicator range indicates a decrease in baghouse performance and potentially indicates an increase in particulate emissions. A pressure gauge is installed to measure the differential pressure between the baghouse inlet and outlet, allowing representative data to be obtained.

Indicator Range

Indicator #1: Opacity (Visible Emission)

The indicator range is visible emissions or no visible emissions.

Indicator #2: Pressure Drop

Control Equipment ID#	Emission Unit Description	Acceptable Indicator Range
CE U03	Rail Receiving #1/Conveying Baghouse	1-6" wg

Measurement Approach

Indicator #1: Opacity (Visible Emissions)

Visible emission observations will be performed weekly on the baghouse. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from observation of visible emissions. Records of the weekly visible emission checks will be maintained for five years.

Indicator #2: Pressure Drop

Each day the baghouse is in operation, the pressure level across the filter bags will be manually recorded from the baghouse pressure gauge to ensure the level is within the appropriate operating range. Records of pressure readings will be maintained for five years.

Performance Criteria

To ensure the data collected is representative, visible emission observations and pressure drop readings will be taken when the equipment is operating. The person performing the observations and readings will be qualified to perform such duties and the individual performing the Method 9 readings, when required, will have a valid certification. The equipment will not be operating while corrective action is being performed.

Response to Excursion

Indicator #1: Opacity (Visible Emissions)

If visible emissions are observed during a weekly visible emissions check, corrective action will be taken as soon as possible, but no later than eight hours from observation of visible emissions. A deviation shall be reported in the semiannual compliance report.

Indicator #2: Pressure Drop

If an observed pressure drop across the filter bags is outside the appropriate operating range for more than five minutes, corrective action will be taken within 8 hours. A deviation shall be reported in the semiannual compliance report.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: U05, U05A - Grain Storage - 4 West Bean Tanks

Associated Equipment

Emission Unit vented through this Emission Point: U05
Emission Unit Description: Grain storage – 4 West Bean Tanks
Raw Material/Fuel: Soybeans
Rated Capacity: 500 tons/hour

Applicable Requirements

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

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Construction Permit Number 2595

Pollutant: PM
Emission Limit: 0.59 lbs/hr, 2.58 TPY, 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 2595
567 IAC 23.4(7)
Polk County Board of Health Rules and Regulations
Chapter V, Section 5-16(1)

Pollutant: PM_{10}
Emission Limit: 0.59 lbs/hr, 2.58 TPY, 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 2595

Pollutant: $PM_{2.5}$
Emission Limit: 0.59 lbs/hr, 2.58 TPY, 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 2595

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall record and maintain daily records of the number of tons of soybeans processed.

Authority for Requirement: Polk County Construction Permit Number 2595

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

Emission Point Characteristic	**U05A: 24 round vents**
Shape	Circular
Size/Diameter	24 inches
Height Above Ground	70.8 feet
Discharge Style	Vertical Obstructed
Rated Flow Rate (scfm)	N/A
Exhaust Temperature	Ambient

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

Authority for Requirement: Polk County Construction Permit Number 2595

Monitoring Requirements

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

EP U05, U05A shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 24.108(3)

Emission Point ID Numbers: U07, U07F – West Side Truck Dump, East Side Truck Dump, Grain Conveyor, and Truck Dump Fugitive Emissions

Associated Equipment

Associated Emission Unit ID Numbers: U01, U02, U04
Emissions Control Equipment ID Number: U07
Emissions Control Equipment Description: Donaldson Model 376 RFW-10 Baghouse

Emission Units vented through this Emission Point: U01, U02, U04
Emission Unit Descriptions: West Side Truck Dump, East Side Truck Dump, Grain Conveyor, and Truck Dump Fugitive Emissions
Raw Material/Fuel: Soybeans
Rated Capacity: 600 Tons/hour per truck dump

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from Emission Point U07 shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Construction Permit Number 2235 Modified

Pollutant: PM
Emission Limit: 1.132 lb/hr, 0.55 Tons/yr, 0.10 gr/dscf
Authority for Requirement: Polk County Construction Permit Number 2235 Modified
567 IAC 23.4(7)
Polk County Board of Health Rules and Regulations
Chapter VI, Section 5-14(3)

Pollutant: PM_{10}
Emission Limit: 1.132 lb/hr, 0.55 Tons/yr
Authority for Requirement: Polk County Construction Permit Number 2235 Modified

Pollutant: $PM_{2.5}$
Emission Limit: 1.132 lb/hr, 0.55 Tons/yr
Authority for Requirement: Polk County Construction Permit Number 2235 Modified

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from Emission Point U07F (Fugitive) shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: <20%
Authority for Requirement: Polk County Construction Permit Number 2235 Modified

Pollutant: PM
Emission Limits: 2.10 lb/hr, 1.84 Tons/yr
Authority for Requirement: Polk County Construction Permit Number 2235 Modified

Pollutant: PM_{10}
Emission Limits: 0.468 lb/hr, 0.41 Tons/yr
Authority for Requirement: Polk County Construction Permit Number 2235 Modified

Pollutant: $PM_{2.5}$
Emission Limits: 0.078 lb/hr, 0.07 Tons/yr
Authority for Requirement: Polk County Construction Permit Number 2235 Modified

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall not process more than 1,971,000 tons of soybeans per 12 month period, rolled monthly.
2. The facility shall record and maintain daily records of the tons of soybeans processed. Said records shall be maintained on site for a minimum period of 10 years and shall be made available to representatives of this agency upon request.

Authority for Requirement: Polk County Construction Permit Number 2235 Modified

Emission Point Characteristics
Emission Point U07 shall conform to the specifications listed below.

Stack Height (feet): 50
Stack Diameter (inches): 44
Stack Exhaust Flow Rate (acfm): 30,000
Stack Temperature (^{o}F): Ambient
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Polk County Construction Permit Number 2235 Modified

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

Emission Point U07F shall conform to the specifications listed below.

EP U07F is Truck Dump fugitive emissions.
Authority for Requirement: Polk County Construction Permit Number 2235 Modified

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

EP U07 and EP U07F shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the equipment is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. 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 $\geq$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. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

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 24.108(3)

Emission Point ID Number: U08 – Haul Roads- Truck Traffic Fugitive Emissions

Associated Equipment

EU ID	EU Description	Maximum Rated Capacity	Control Equipment Description and ID
BEN	Soybean Receiving	57,670 VMT	Weekly sweeping /vacuuming requirements Maximum speed limit of 5 MPH
MEL	Meal/ Hull Truck Loadout	19,163 VMT	
OIL	Oil Loadout	7,083 VMT	
HEX	Hexane Receiving	6.23 VMT	
FLO	Flowability Agent Receiving	167.90 VMT	

Raw Material/Fuel: Fugitive Dust
Rated Capacity: Not Applicable

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: <20%
Authority for Requirement: Polk County Construction Permit Number 2828 Modified

Pollutant: PM
Emission Limit: 1.0 g/m2 silt
Authority for Requirement: Polk County Construction Permit Number 2828 Modified
Iowa Department of Natural Resources (DNR) Administrative Consent Order No. 2023-AQ-15 (May 24, 2023).

Pollutant: PM_{10}
Emission Limit: 1.0 g/m2 silt
Authority for Requirement: Polk County Construction Permit Number 2828 Modified
Iowa Department of Natural Resources (DNR) Administrative Consent Order No. 2023-AQ-15 (May 24, 2023).

Pollutant: $PM_{2.5}$
Emission Limit: 1.0 g/m2 silt
Authority for Requirement: Polk County Construction Permit Number 2828 Modified
Iowa Department of Natural Resources (DNR) Administrative Consent Order No. 2023-AQ-15 (May 24, 2023).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall be limited to a total maximum annual truck traffic for each of the Haul Roads processes:
   a. Soybean Receiving (BNE) shall be limited to 57,670 vehicle miles traveled (VMT).
   b. Meal/Hull Truck Loadout (MEL) shall be limited to 19,163 VMT.
   c. Oil Loadout (OIL) shall be limited to 7,083 VMT.
   d. Hexane Receiving (HEX) shall be limited to 6.23 VMT.
   e. Flowability Agent Receiving (FLO) shall be limited to 167.90 VMT.
2. The facility shall record on a monthly basis the VMT for each Haul Roads process (BNE, MEL, OIL, HEX and FLO) per 12-month period, rolled monthly.
3. The road surface silt loading concentration shall not exceed 1.0 g/m^2.
4. Truck Traffic on the haul roads shall not exceed 5 mph. The speed limit shall be posted.
5. Truck loads shall be covered leaving the property when covers are available.
6. Any spills on the road shall be cleaned up as soon as practical.
7. The facility shall sweep/vacuum the haul roads a minimum of once per week.
8. The sweeping/vacuuming need not occur when:
   a. Salt or sand is applied to the road for worker safety.
   b. When the roads are wet from precipitation.
9. Salt or sand is applied to the road for worker safety.
10. The facility shall maintain a record of the sweeping/vacuuming activities and shall include a record of any deviation from the listed requirements due to suspended use of the haul roads or weather conditions.

Authority for Requirement: Polk County Construction Permit Number 2828 Modified

Monitoring Requirements

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

Silt Testing:

Silt Testing to be Completed – Quarterly[1]

Test Method - Silt load testing shall be conducted according to the procedures outlined in AP-42, Appendix C.1 (Procedures for Sampling Surface/Bulk Dust Loading) and C.2 (Procedures for Laboratory Analysis of Surface/Bulk Dust Loading Samples).

Authority for Requirement: Polk County Construction Permit Number 2828 Modified

[1] The facility may petition the PCAQD to request a reduced testing schedule after demonstrating compliance with the silt loading standard of 1.0 g/m^2 for eight consecutive quarters.

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 24.108(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 (IAC). When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 22. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024, and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix 2.

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 24.108(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 24.105(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 24.108(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 24.108(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 24.108(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 24.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—24.104(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—24.105(455B). *567 IAC 24.116(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. 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 24.105(2). *567 IAC 24.105*

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 24.107(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 Polk County Air Quality Division. *567 IAC 24.108(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 24.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate Polk County Air Quality Division. *567 IAC 24.108 (5)*

G6. Annual Fee
1. The permittee is required under subrule 567 IAC 24.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V

emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 24.115(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 24.108 (15)"b" and Chapter V, Article II, 5-3 and 5-4*

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 24.108 (9)"e" and Chapter V, Article X, 5-46 and 5-47*

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 21.8(1) and Chapter V, Article VI, Section 5-17.1*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
    a. The date, place and time of sampling or measurements
    b. The date the analyses were performed.
    c. The company or entity that performed the analyses.
    d. The analytical techniques or methods used.
    e. The results of such analyses; and
    f. The operating conditions as existing at the time of sampling or measurement.
    g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
    a. Comply with all terms and conditions of this permit specific to each alternative scenario.
    b. Maintain a log at the permitted facility of the scenario under which it is operating.
    c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 24.108(4), 567 IAC 24.108(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 24;
    b. Compliance test methods specified in 567 Chapter 21; or
    c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
    a. Any monitoring or testing methods provided in these rules; or
    b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

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

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 24.108(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 21.10(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 21.10(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 21.7(1)-567 IAC 21.7(4) and Chapter V, Article VI, 5-17*

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 24.108(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 Polk County Air Quality Division, in lieu of the Department, upon adoption of the NSPS or NESHAP into Chapter V.

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 24.
    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—24.140(455B) through 567 - 24.144(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 24.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 24.110(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 24.110(1). *567 IAC 24.110(3)*
4. The permit shield provided in subrule 24.108(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 24.110(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 24.108(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 - 24.113(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 24.107(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 24.107(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 24.112(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 24, 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 24.111-567 IAC 24.113*

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 Chapter V, Article X, 5-28*

G20. Asbestos
The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations *(567 IAC 23.1(3)"a");* training fires and controlled burning of a demolished building *(567 IAC 23.2).*

G21. Open Burning
The permittee is prohibited from conducting open burning, except as provided in *567 IAC 23.2. 567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances
The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 24.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements
1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
    a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
    b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
    c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
    d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 24.108(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 24.108(17)"a", 567 IAC 24.108(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 24.114(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 24.114(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 24.114(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 24.108 (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 24.108 (8) and Chapter V, Article XVII, 5-77*

G27. Property Rights
The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 24.108 (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 24.111(1). *567 IAC 24.111 (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 24.3(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 (42 days) 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
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 343-6589

Within Polk County, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.
567 IAC 21.10(7)"a", 567 IAC 21.10(9) and Chapter V, Article VII, 5-18 and 5-19

G31. Prevention of Air Pollution Emergency Episodes
The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons. *567 IAC 26.1(1)*

G32. Contacts List
The current address and phone number for reports and notifications to the EPA administrator is:

Iowa Compliance Officer
Air Branch
Enforcement and Compliance Assurance Division
U.S. EPA Region 7
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
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 313-8325

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

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

V. Appendix 1: Weblinks to applicable NSPS and NESHAP

(Click on blue link + Ctrl will take you to the website for the regulation.)

- 40 CFR Part 60 Subpart DD: Standards of Performance for Grain Elevators. NSPS Subpart DD
  https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.dd

- 40 CFR 60 subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
  https://www.ecfr.gov/cgi-bin/text-idx?SID=7661f5d9f7827b7d7eb71a27ff33f51f&mc=true&node=sp40.7.60.d_0b&rgn=div6

- 40 CFR 60 subpart Dc: Standards of Performance for Small Industrial-Commercial-Institutional Boilers and Process Heaters
  https://www.epa.gov/stationary-sources-air-pollution/industrial-commercial-institutional-steam-generating-units-new

- 40 CFR 60 NSPS Subpart IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
  https://www.epa.gov/stationary-engines/new-source-performance-standards-stationary-compression-ignition-internal-0

- 40 CFR Part 63 Subpart GGGG: National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production
  https://www.epa.gov/stationary-sources-air-pollution/solvent-extraction-vegetable-oil-production-national-emission

- 40 CFR Part 63 Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
  https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ

  40 CFR Part 63 Subpart DDDDD: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters
  https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-DDDDD

VI . Appendix 2: EO10 Crosswalk