

Table of Contents

Table of Contents	1
Air Title V Operating Permit (AOP) - Renewal	4
(Submission #: HQE-99MJ-6GR4N, version 1)	4
Details	4
Form Input	4
Form Instructions	4
Section A - Permit Information	4
Section B (Part 1) - Facility Information	5
Section B (Part 2) - Additional Location Information	6
Section C - Nature of Business	6
Section D - Process Equipment Information (1 of 66)	6
Emission Unit - 05	6
Section D - Process Equipment Information (2 of 66)	7
Emission Unit - 06	7
Section D - Process Equipment Information (3 of 66)	8
Emission Unit - 07	8
Section D - Process Equipment Information (4 of 66)	9
Emission Unit - 08	9
Section D - Process Equipment Information (5 of 66)	9
Emission Unit - 11	9
Section D - Process Equipment Information (6 of 66)	10
Emission Unit - 12	10
Section D - Process Equipment Information (7 of 66)	11
Emission Unit - 22	11
Section D - Process Equipment Information (8 of 66)	12
Emission Unit - 23	12
Section D - Process Equipment Information (9 of 66)	13
Emission Unit - 25	13
Section D - Process Equipment Information (10 of 66)	14
Emission Unit - 26	14
Section D - Process Equipment Information (11 of 66)	14
Emission Unit - 29	14
Section D - Process Equipment Information (12 of 66)	15
Emission Unit - 30	15
Section D - Process Equipment Information (13 of 66)	16
Emission Unit - 51	16
Section D - Process Equipment Information (14 of 66)	17
Emission Unit - 52	17
Section D - Process Equipment Information (15 of 66)	18
Emission Unit - 53	18
Section D - Process Equipment Information (16 of 66)	19
Emission Unit - 54	19
Section D - Process Equipment Information (17 of 66)	19
Emission Unit - 55	20
Section D - Process Equipment Information (18 of 66)	20
Emission Unit - 56	20
Section D - Process Equipment Information (19 of 66)	21
Emission Unit - 57	21
Section D - Process Equipment Information (20 of 66)	22
Emission Unit - 58	22
Section D - Process Equipment Information (21 of 66)	23
Emission Unit - 59	23
Section D - Process Equipment Information (22 of 66)	24
Emission Unit - 60	24
Section D - Process Equipment Information (23 of 66)	24
Emission Unit - 61	24
Section D - Process Equipment Information (24 of 66)	25
Emission Unit - 63	25
Section D - Process Equipment Information (25 of 66)	26
Emission Unit - 65	26
Section D - Process Equipment Information (26 of 66)	27
Emission Unit - 67	27
Section D - Process Equipment Information (27 of 66)	28

Emission Unit - 68	28
Section D - Process Equipment Information (28 of 66)	29
Emission Unit - 70	29
Section D - Process Equipment Information (29 of 66)	29
Emission Unit - 77	29
Section D - Process Equipment Information (30 of 66)	30
Emission Unit - PI-22	30
Section D - Process Equipment Information (31 of 66)	31
Emission Unit - PI-23	31
Section D - Process Equipment Information (32 of 66)	32
Emission Unit - PI-24	32
Section D - Process Equipment Information (33 of 66)	33
Emission Unit - PI-25	33
Section D - Process Equipment Information (34 of 66)	34
Emission Unit - 72	34
Section D - Process Equipment Information (35 of 66)	34
Emission Unit - 79	34
Section D - Process Equipment Information (36 of 66)	35
Emission Unit - PI-03	35
Section D - Process Equipment Information (37 of 66)	36
Emission Unit - PI-04	36
Section D - Process Equipment Information (38 of 66)	37
Emission Unit - PI-05	37
Section D - Process Equipment Information (39 of 66)	38
Emission Unit - PI-06	38
Section D - Process Equipment Information (40 of 66)	38
Emission Unit - PI-07A	38
Section D - Process Equipment Information (41 of 66)	39
Emission Unit - PI-07B	39
Section D - Process Equipment Information (42 of 66)	40
Emission Unit - PI-14	40
Section D - Process Equipment Information (43 of 66)	41
Emission Unit - PI-15	41
Section D - Process Equipment Information (44 of 66)	42
Emission Unit - PI-17	42
Section D - Process Equipment Information (45 of 66)	42
Emission Unit - PI-18	43
Section D - Process Equipment Information (46 of 66)	43
Emission Unit - PI-19	43
Section D - Process Equipment Information (47 of 66)	44
Emission Unit - PI-20	44
Section D - Process Equipment Information (48 of 66)	45
Emission Unit - PI-21	45
Section D - Process Equipment Information (49 of 66)	46
Emission Unit - FR-01/FR-02	46
Section D - Process Equipment Information (50 of 66)	47
Emission Unit - 15	47
Section D - Process Equipment Information (51 of 66)	47
Emission Unit - 51a	47
Section D - Process Equipment Information (52 of 66)	48
Emission Unit - 51b	48
Section D - Process Equipment Information (53 of 66)	49
Emission Unit - 60a	49
Section D - Process Equipment Information (54 of 66)	50
Emission Unit - 66	50
Section D - Process Equipment Information (55 of 66)	50
Emission Unit - 84	50
Section D - Process Equipment Information (56 of 66)	51
Emission Unit - 85	51
Section D - Process Equipment Information (57 of 66)	52
Emission Unit - PI-07C	52
Section D - Process Equipment Information (58 of 66)	53
Emission Unit - 17	53
Section D - Process Equipment Information (59 of 66)	54
Emission Unit - 33	54

Section D - Process Equipment Information (60 of 66)	55
Emission Unit - 62	55
Section D - Process Equipment Information (61 of 66)	56
Emission Unit - 64	56
Section D - Process Equipment Information (62 of 66)	57
Emission Unit - 69	57
Section D - Process Equipment Information (63 of 66)	58
Emission Unit - 81	58
Section D - Process Equipment Information (64 of 66)	59
Emission Unit - 82	59
Section D - Process Equipment Information (65 of 66)	60
Emission Unit - PI-09	60
Section D - Process Equipment Information (66 of 66)	60
Emission Unit - PI-16	60
Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)	61
Section G - Compliance Schedule	62
Section H - Flexible Permits	62
Section I - Compliance Assurance Monitoring (CAM)	63
Section K - Redline Permit Upload	63
Section L - General Document Upload	63
Attachments	63
Status History	64
Agreements and Signature(s)	65

Air Title V Operating Permit (AOP) - Renewal

version 2.5

(Submission #: HQE-99MJ-6GR4N, version 1)

Details

Submission ID HQE-99MJ-6GR4N

Status In Process

Form Input

Form Instructions

In accordance with 33.1-15-14-04.c. of the North Dakota Air Pollution Control Rules, a Title V permit renewal application must be submitted to the Department at least six months, but no more than eighteen months, prior to the expiration date. Permit renewal applications are incomplete unless all information requested in SFN 52824 is supplied. The current Title V permit will be the baseline reference for a renewal. The requirements (40 CFR 70.5(c) & NDAC 33.1-15-14-06.4.c) to include a citation and description of all applicable requirements and a description of or reference to any applicable test method for determining compliance with each applicable requirement may be met by accomplishing either or both of the following: 1) provide an annotated (red-lined) copy of the current permit indicating all changes needed to reflect the current facility configuration, applicable requirements and test methods; 2) provide a narrative that conveys all changes needed to the current permit to reflect the current facility configuration, all applicable requirements and test methods.

FOR ACID RAIN UNITS ONLY ♦ Submit with the Title V permit renewal application all Acid Rain renewal applications (the Acid Rain Permit Application, the Phase II NOx Compliance Plan, and if applicable, the Phase II NOx Averaging Plan).

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application.

Section A - Permit Information

Permit Number

AOP-28378

Permit Version

5

Issue Date

10/05/2023

Expiration Date

05/15/2026

Permittee

Company Name

Archer Daniels Midland Company (ADM)

Address

P.O. Box 1470

Decatur, IL 62525

United States

Responsible Official

Prefix

NONE PROVIDED

First Name

Michael

Last Name

Odland

Title

Plant Manager

Phone Type

Business

Number

7014376859

Extension

Email

Mike.Odland@adm.com

Address

5525 136th Avenue SE

Enderlin, ND 58027

United States

Contact Person for Air Pollution Matters

Prefix

NONE PROVIDED

First Name

Karina

Last Name

Cortes

Title

Environmental Coordinator

Phone Type

Business

Number

7014376857

Extension

Email

karina.cortes@adm.com

Address

P.O. Box 1470

Decatur, IL 62525

United States

Section B (Part 1) - Facility Information

Facility Name

Archer Daniels Midland Company (ADM) - Enderlin Facility

Have you added, removed, or made any modifications to equipment since your last operating permit issuance?

No

Is this source subject to Title IV Acid Rain regulations?

No

Is this a portable source?

No

Facility Location

5525 - 136th Ave SE

Enderlin, ND 58027

United States

County

Ransom

Facility Location:

46.61383715969964,-97.57747650146484

5525 - 136th Ave SE, Enderlin, ND

Section B (Part 2) - Additional Location Information**Legal Description of Facility Site**

Qtr Qtr	Qtr	Section	Township	Range
NE	NE	10	136N	55W

Land area at facility site (indicate whether measurement is in acres or sq. ft.)

2730000

MSL elevation at facility

1100

Section C - Nature of Business**General Nature of Business**

Describe Nature of Business	NAICS Code	SIC Code
Sunflower Oil Processing Facility	311224-Soybean and Other Oilseed Processing	2076-Vegetable Oil Mills, Except Corn, Cottonseed, and Soybeans

Actual Start of Construction Date

NONE PROVIDED

Actual End of Construction Date

NONE PROVIDED

Facility Startup Date

NONE PROVIDED

Section D - Process Equipment Information (1 of 66)**Emission Unit - 05****Emission Unit ID**

05

Emission Unit Description

Dehuller System 1

Emission Point ID

05

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (2 of 66)

Emission Unit - 06

Emission Unit ID
06

Emission Unit Description
Dehuller System 2

Emission Point ID
06

Emission Point Description
NONE PROVIDED

Emission Process Description
NONE PROVIDED

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (3 of 66)

Emission Unit - 07

Emission Unit ID
07

Emission Unit Description
Hull storage bin vents

Emission Point ID
07

Emission Point Description
NONE PROVIDED

Emission Process Description
NONE PROVIDED

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (4 of 66)

Emission Unit - 08

Emission Unit ID

08

Emission Unit Description

Elevators & conveyors

Emission Point ID

08

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC06004

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (5 of 66)

Emission Unit - 11

Emission Unit ID

11

Emission Unit Description

Meal/hull processing

Emission Point ID

11

Emission Point Description

NONE PROVIDED

Emission Process Description

Two cyclones and an upgraded 100 hp fan.

Emission Unit Status

Existing, modification

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

ADM would like to request the update of the Meal/Hull Processing Emission Unit 11 (EU11/EP11). Two new cyclones and an upgraded fan (100 hp) have been installed in May 2025 replacing two old cyclones and one 75 hp fan. ADM believes it was a typo of the previous permit that mentions only one cyclone. During the annual inspection in June 2025, the NDDEQ saw the emission point at the plant - ADM was told that a review of EU11 will be conducted during the next permit renewal or revision of AOP-28378 v5.0 to determine if EU11 may have two emission points associated with the unit.

Section D - Process Equipment Information (6 of 66)**Emission Unit - 12****Emission Unit ID**

12

Emission Unit Description

Hammermills

Emission Point ID

12

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98010

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (7 of 66)**Emission Unit - 22****Emission Unit ID**

22

Emission Unit Description

West building vents

Emission Point ID

22

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits
New Source Performance Standards

NSPS Air Program Subparts

Subpart
Subpart DD - GRAIN ELEVATORS

Applicable State Regulations

Regulation
33.1-15-12. Standards of Performance for New Stationary Sources.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (8 of 66)

Emission Unit - 23

Emission Unit ID
23

Emission Unit Description
Dry seed tank vents (10)

Emission Point ID
23

Emission Point Description
NONE PROVIDED

Emission Process Description
NONE PROVIDED

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits
New Source Performance Standards

NSPS Air Program Subparts

Subpart
Subpart DD - GRAIN ELEVATORS

Applicable State Regulations

Regulation
33.1-15-12. Standards of Performance for New Stationary Sources.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (9 of 66)

Emission Unit - 25

Emission Unit ID

25

Emission Unit Description

Meal storage tanks

Emission Point ID

25

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (10 of 66)

Emission Unit - 26

Emission Unit ID

26

Emission Unit Description

FM tank-transferring

Emission Point ID

26

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (11 of 66)

Emission Unit - 29

Emission Unit ID

29

Emission Unit Description
Day tank

Emission Point ID
29

Emission Point Description
NONE PROVIDED

Emission Process Description
NONE PROVIDED

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form
NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (12 of 66)

Emission Unit - 30

Emission Unit ID
30

Emission Unit Description
Fly ash and bottom ash loadout

Emission Point ID
30

Emission Point Description
NONE PROVIDED

Emission Process Description
NONE PROVIDED

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (13 of 66)**Emission Unit - 51****Emission Unit ID**

51

Emission Unit Description

Seed receiving

Emission Point ID

51

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits
New Source Performance Standards

NSPS Air Program Subparts

Subpart
Subpart DD - GRAIN ELEVATORS

Applicable State Regulations

Regulation
33.1-15-12. Standards of Performance for New Stationary Sources.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (14 of 66)

Emission Unit - 52

Emission Unit ID
52

Emission Unit Description
Seed cleaning

Emission Point ID
52

Emission Point Description
NONE PROVIDED

Emission Process Description
NONE PROVIDED

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits
New Source Performance Standards

NSPS Air Program Subparts

Subpart
Subpart DD - GRAIN ELEVATORS

Applicable State Regulations

Regulation
33.1-15-12. Standards of Performance for New Stationary Sources.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (15 of 66)

Emission Unit - 53

Emission Unit ID

53

Emission Unit Description

Seed storage

Emission Point ID

53

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits
New Source Performance Standards

NSPS Air Program Subparts

Subpart
Subpart DD - GRAIN ELEVATORS

Applicable State Regulations

Regulation
33.1-15-12. Standards of Performance for New Stationary Sources.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (16 of 66)

Emission Unit - 54

Emission Unit ID

54

Emission Unit Description

Filter aid receiving

Emission Point ID

54

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (17 of 66)

Emission Unit - 55

Emission Unit ID

55

Emission Unit Description

Bleaching clay receiving

Emission Point ID

55

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (18 of 66)

Emission Unit - 56

Emission Unit ID

56

Emission Unit Description

Rotary seed conditioner

Emission Point ID

56

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (19 of 66)**Emission Unit - 57****Emission Unit ID**

57

Emission Unit Description

East building vents

Emission Point ID

57

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits
New Source Performance Standards

NSPS Air Program Subparts

Subpart
Subpart DD - GRAIN ELEVATORS

Applicable State Regulations

Regulation
33.1-15-12. Standards of Performance for New Stationary Sources.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (20 of 66)

Emission Unit - 58

Emission Unit ID

58

Emission Unit Description

Expeller aspiration

Emission Point ID

58

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98002
ACP-17153 v1.0

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (21 of 66)

Emission Unit - 59

Emission Unit ID

59

Emission Unit Description

Truck meal loadout

Emission Point ID

59

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98010

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (22 of 66)

Emission Unit - 60

Emission Unit ID

60

Emission Unit Description

Rail meal loadout

Emission Point ID

60

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98010

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (23 of 66)

Emission Unit - 61

Emission Unit ID

61

Emission Unit Description
Desolventizer-toaster-dryer-cooler (DTDC)

Emission Point ID
61

Emission Point Description
NONE PROVIDED

Emission Process Description
NONE PROVIDED

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits
MACT Standards (40 CFR Part 63)

MACT Air Program Subparts

Subpart
Subpart GGGG - SOLVENT EXTRACTION FOR VEGETABLE OIL PRODUCTION

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (24 of 66)

Emission Unit - 63

Emission Unit ID
63

Emission Unit Description
Whole seed conditioner

Emission Point ID
63

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (25 of 66)

Emission Unit - 65

Emission Unit ID

65

Emission Unit Description

Hull grinding

Emission Point ID

65

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (26 of 66)

Emission Unit - 67

Emission Unit ID

67

Emission Unit Description

Main vent (hexane extraction)

Emission Point ID

67

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits
MACT Standards (40 CFR Part 63)

MACT Air Program Subparts

Subpart
Subpart GGGG - SOLVENT EXTRACTION FOR VEGETABLE OIL PRODUCTION

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (27 of 66)**Emission Unit - 68****Emission Unit ID**

68

Emission Unit Description

Dehulling area bagfilter

Emission Point ID

68

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98010

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (28 of 66)**Emission Unit - 70****Emission Unit ID**

70

Emission Unit Description

Bean receiving/storage/handling

Emission Point ID

70

Emission Point Description

NONE PROVIDED

Emission Process Description

8 tanks, 4 on east side (1011, 1012, 1013, 1014), 4 on west side (1021, 1022, 1023, 1024)

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98017
PTC03004
ACP-17493 v1.0

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (29 of 66)**Emission Unit - 77**

Emission Unit ID

77

Emission Unit Description

Bean/bean powder conveying/storage/packaging

Emission Point ID

70

Emission Point Description

NONE PROVIDED

Emission Process Description

4 tanks, including PI-08, some pneumatic conveying, and the bean packaging equipment. PI-08 was repurposed by the Legume Protein Isolate Project as the hulls storage and loadout tank

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98017
PTC03004
ACP-17493 v1.0

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (30 of 66)**Emission Unit - PI-22****Emission Unit ID**

PI-22

Emission Unit Description

Isolate valve packer receiver

Emission Point ID

70

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98017
PTC03004
ACP-17493 v1.0
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (31 of 66)

Emission Unit - PI-23

Emission Unit ID

PI-23

Emission Unit Description

Isolate super sacker receiver

Emission Point ID

70

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98017
PTC03004
ACP-17493 v1.0

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (32 of 66)**Emission Unit - PI-24****Emission Unit ID**

PI-24

Emission Unit Description

Isolate valve packer aspiration

Emission Point ID

70

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98017
PTC03004
ACP-17493 v1.0

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (33 of 66)

Emission Unit - PI-25

Emission Unit ID

PI-25

Emission Unit Description

Pea hull loadout aspiration

Emission Point ID

70

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98017
PTC03004
ACP-17493 v1.0

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (34 of 66)

Emission Unit - 72

Emission Unit ID

72

Emission Unit Description

Bean dehydrator

Emission Point ID

72

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98017

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (35 of 66)

Emission Unit - 79

Emission Unit ID
79

Emission Unit Description
Wood/PC grain fuel receiving station

Emission Point ID
79

Emission Point Description
NONE PROVIDED

Emission Process Description
NONE PROVIDED

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number
PTC06004

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (36 of 66)

Emission Unit - PI-03

Emission Unit ID
PI-03

Emission Unit Description
Raw legume transport

Emission Point ID
PI-03

Emission Point Description
NONE PROVIDED

Emission Process Description
NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (37 of 66)**Emission Unit - PI-04****Emission Unit ID**

PI-04

Emission Unit Description

Raw legume screening

Emission Point ID

PI-03

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (38 of 66)

Emission Unit - PI-05

Emission Unit ID

PI-05

Emission Unit Description

Raw legume split conditioner

Emission Point ID

PI-03

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (39 of 66)**Emission Unit - PI-06****Emission Unit ID**

PI-06

Emission Unit Description

Legume split flacking

Emission Point ID

PI-03

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (40 of 66)**Emission Unit - PI-07A****Emission Unit ID**

PI-07A

Emission Unit Description

Hull separation aspiration

Emission Point ID

PI-03

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (41 of 66)**Emission Unit - PI-07B****Emission Unit ID**

PI-07B

Emission Unit Description

Hulls grinder blowline

Emission Point ID

PI-03

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (42 of 66)**Emission Unit - PI-14****Emission Unit ID**

PI-14

Emission Unit Description

Starch pack tank #1

Emission Point ID

PI-14

Emission Point Description

NONE PROVIDED

Emission Process Description

Discharges indoors

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (43 of 66)

Emission Unit - PI-15

Emission Unit ID

PI-15

Emission Unit Description

Starch pack tank #2

Emission Point ID

PI-15

Emission Point Description

NONE PROVIDED

Emission Process Description

Discharges indoors

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (44 of 66)

Emission Unit - PI-17

Emission Unit ID

PI-17

Emission Unit Description

Isolate sizing

Emission Point ID

PI-17

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (45 of 66)

Emission Unit - PI-18

Emission Unit ID
PI-18

Emission Unit Description
Isolate pack tank #1

Emission Point ID
PI-18

Emission Point Description
NONE PROVIDED

Emission Process Description
Discharges indoors

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

Download the emission unit form linked here, complete it, and upload it to this application using the attachment control below.

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form
NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (46 of 66)

Emission Unit - PI-19

Emission Unit ID
PI-19

Emission Unit Description
Isolate pack tank #2

Emission Point ID
PI-19

Emission Point Description
NONE PROVIDED

Emission Process Description

Discharges indoors

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (47 of 66)

Emission Unit - PI-20

Emission Unit ID

PI-20

Emission Unit Description

Isolate pack tank #3

Emission Point ID

PI-20

Emission Point Description

NONE PROVIDED

Emission Process Description

Discharges indoors

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section D - Process Equipment Information (48 of 66)

Emission Unit - PI-21

Emission Unit ID

PI-21

Emission Unit Description

Isolate pack tank #4

Emission Point ID

PI-21

Emission Point Description

NONE PROVIDED

Emission Process Description

Discharges indoors

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (49 of 66)

Emission Unit - FR-01/FR-02

Emission Unit ID

FR-01/FR-02

Emission Unit Description

WWTP anaerobic reactor with caustic scrubber & biogas flare

Emission Point ID

FR-01

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1
ACP-18183 v1.0

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

Download the emission unit form linked here, complete it, and upload it to this application using the attachment control below.

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (50 of 66)

Emission Unit - 15

Emission Unit ID
15

Emission Unit Description
A dryer

Emission Point ID
15

Emission Point Description
Fugitive

Emission Process Description
NONE PROVIDED

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (51 of 66)

Emission Unit - 51a

Emission Unit ID
51a

Emission Unit Description
Whole seed truck loading spout

Emission Point ID
Fug1

Emission Point Description
Fugitive

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

Download the emission unit form linked here, complete it, and upload it to this application using the attachment control below.

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (52 of 66)**Emission Unit - 51b****Emission Unit ID**

51b

Emission Unit Description

Whole seed rail loading spout

Emission Point ID

Fug 2

Emission Point Description

Fugitive

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

Download the emission unit form linked here, complete it, and upload it to this application using the attachment control below.

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (53 of 66)

Emission Unit - 60a

Emission Unit ID

60a

Emission Unit Description

Rail meal unload pit

Emission Point ID

Fug 3

Emission Point Description

Fugitive

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (54 of 66)

Emission Unit - 66

Emission Unit ID
66

Emission Unit Description
Refinery vacuum system vent

Emission Point ID
66

Emission Point Description
NONE PROVIDED

Emission Process Description
Insignificant activity

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

Download the emission unit form linked here, complete it, and upload it to this application using the attachment control below.

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (55 of 66)

Emission Unit - 84

Emission Unit ID
84

Emission Unit Description
B335A raw flake conveyor vent fan

Emission Point ID
84

Emission Point Description

NONE PROVIDED

Emission Process Description

Insignificant activity

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (56 of 66)**Emission Unit - 85****Emission Unit ID**

85

Emission Unit Description

C101F L - path fan

Emission Point ID

85

Emission Point Description

NONE PROVIDED

Emission Process Description

Insignificant activity

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (57 of 66)

Emission Unit - PI-07C

Emission Unit ID
PI-07C

Emission Unit Description
Hulls transport to storage

Emission Point ID
PI-07

Emission Point Description
NONE PROVIDED

Emission Process Description
Insignificant activity

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (58 of 66)**Emission Unit - 17****Emission Unit ID**

17

Emission Unit Description

JTA Boiler rated at 280×10^6 Btu/hr (nominal) and fired on hulls, biomass, railroad ties and clean wood (constructed 1998, Db, DDDDD)

Emission Point ID

17

Emission Point Description

ESP Control

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98002
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
New Source Performance Standards
MACT Standards (40 CFR Part 63)

NSPS Air Program Subparts

Subpart
Subpart Db - INDUS-COMMERC-INSTITUTL STEAM GENERATING UNITS

MACT Air Program Subparts

Subpart
Subpart DDDDD - MAJOR SOURCES: INDUSTRIAL/COMMERCIAL/INSTITUTIONAL BOILERS & PROCESS HEATER

Applicable State Regulations

Regulation
33.1-15-22. Emissions Standards for Hazardous Air Pollutants for Source Categories.
33.1-15-15. Prevention of Significant Deterioration of Air Quality.
33.1-15-02-04. Ambient air quality standards.
33.1-15-06-01.2 Restriction of emissions of sulfur dioxide from use of fuel. Restrictions applicable to fuel burning installations.
33.1-15-12. Standards of Performance for New Stationary Sources.
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (59 of 66)

Emission Unit - 33

Emission Unit ID
33

Emission Unit Description
125 bhp diesel engine driven emergency generator (constructed 1982, ZZZZ)

Emission Point ID
33

Emission Point Description
NONE PROVIDED

Emission Process Description
NONE PROVIDED

Emission Unit Status
Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
MACT Standards (40 CFR Part 63)

MACT Air Program Subparts

Subpart
Subpart ZZZZ - STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE)

Applicable State Regulations

Regulation
33.1-15-03-02. Visible Emissions. Restrictions applicable to new installations and all incinerators.
33.1-15-22. Emissions Standards for Hazardous Air Pollutants for Source Categories.
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (60 of 66)

Emission Unit - 62

Emission Unit ID

62

Emission Unit Description

Newpoint NUK natural gas-fired (No. 2 fuel oil backup) boiler rated at 15 x 10^6 Btu/hr (constructed 2010, Dc, DDDDD)

Emission Point ID

62

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
New Source Performance Standards
MACT Standards (40 CFR Part 63)

NSPS Air Program Subparts

Subpart
Subpart Dc - SMALL INDUS-COMMER-INSTITUTL STEAM GENERATING UNITS

MACT Air Program Subparts

Subpart
Subpart DDDDD - MAJOR SOURCES: INDUSTRIAL/COMMERCIAL/INSTITUTIONAL BOILERS & PROCESS HEATER

Applicable State Regulations

Regulation
33.1-15-12. Standards of Performance for New Stationary Sources.
33.1-15-03-02. Visible Emissions. Restrictions applicable to new installations and all incinerators.
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (61 of 66)

Emission Unit - 64

Emission Unit ID

64

Emission Unit Description

Trane Murray natural gas/LPG-fired (No. 2 fuel oil backup) boiler rated at 180 x 10^6 Btu/hr (nominal) (constructed 1977, DDDDD)

Emission Point ID

64

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98002

Applicable Federal Air Programs

Program Code
New Source Performance Standards
MACT Standards (40 CFR Part 63)

NSPS Air Program Subparts

Subpart
Subpart Dc - SMALL INDUS-COMMER-INSTITUTL STEAM GENERATING UNITS

MACT Air Program Subparts

Subpart
Subpart DDDDD - MAJOR SOURCES: INDUSTRIAL/COMMERCIAL/INSTITUTIONAL BOILERS & PROCESS HEATER

Applicable State Regulations

Regulation
33.1-15-03-02. Visible Emissions. Restrictions applicable to new installations and all incinerators.
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (62 of 66)

Emission Unit - 69

Emission Unit ID

69

Emission Unit Description

1,818 bhp Caterpillar diesel engine driven emergency generator (manuf. 1997, ZZZZ)

Emission Point ID

69

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
PTC98010

Applicable Federal Air Programs

Program Code
MACT Standards (40 CFR Part 63)

MACT Air Program Subparts

Subpart
Subpart ZZZZ - STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE)

Applicable State Regulations

Regulation
33.1-15-03-02. Visible Emissions. Restrictions applicable to new installations and all incinerators.
33.1-15-22. Emissions Standards for Hazardous Air Pollutants for Source Categories.
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (63 of 66)**Emission Unit - 81****Emission Unit ID**

81

Emission Unit Description285 bhp diesel fire pump #1 engine (manuf. 1981, ZZZZ)**Emission Point ID**

81

Emission Point Description

NONE PROVIDED

Emission Process Description

Insignificant Activity

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
MACT Standards (40 CFR Part 63)

MACT Air Program Subparts

Subpart
Subpart ZZZZ - STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE)

Applicable State Regulations

Regulation
33.1-15-03-02. Visible Emissions. Restrictions applicable to new installations and all incinerators.
33.1-15-22. Emissions Standards for Hazardous Air Pollutants for Source Categories.
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (64 of 66)

Emission Unit - 82

Emission Unit ID

82

Emission Unit Description

460 bhp diesel fire pump #2 engine (manuf. 1996, ZZZZ)

Emission Point ID

82

Emission Point Description

NONE PROVIDED

Emission Process Description

Insignificant Activity

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code
MACT Standards (40 CFR Part 63)

MACT Air Program Subparts

Subpart
Subpart ZZZZ - STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE)

Applicable State Regulations

Regulation
33.1-15-03-02. Visible Emissions. Restrictions applicable to new installations and all incinerators.
33.1-15-22. Emissions Standards for Hazardous Air Pollutants for Source Categories.
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (65 of 66)

Emission Unit - PI-09

Emission Unit ID

PI-09

Emission Unit DescriptionStarch flash dryer equipped with a natural gas-fired burner rated at 30 x 10⁶ Btu/hr**Emission Point ID**

PI-09

Emission Point Description

Scrubber control

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section D - Process Equipment Information (66 of 66)**Emission Unit - PI-16****Emission Unit ID**

PI-16

Emission Unit DescriptionIsolate spray dryer equipped with a natural gas-fired burner rated at 32 x 10⁶ Btu/hr**Emission Point ID**

PI-16a/PI-16b

Emission Point Description

Bagfilter control

Emission Process Description

NONE PROVIDED

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number
ACP-17820 v1.1

Applicable Federal Air Programs

Program Code
Title V Permits

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.

Emission Unit form

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[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)**Applicable Federal Air Programs**

Program Code
MACT Standards (40 CFR Part 63)
New Source Performance Standards
Prevention of Significant Deterioration of Air Quality
Title V Permits

NSPS Air Program Subparts

Subpart
Subpart DD - GRAIN ELEVATORS
Subpart Dc - SMALL INDUS-COMMER-INSTITUTL STEAM GENERATING UNITS
Subpart Db - INDUS-COMMERC-INSTITUTL STEAM GENERATING UNITS

MACT Air Program Subparts

Subpart
Subpart DDDDD - MAJOR SOURCES: INDUSTRIAL/COMMERCIAL/INSTITUTIONAL BOILERS & PROCESS HEATER
Subpart GGGG - SOLVENT EXTRACTION FOR VEGETABLE OIL PRODUCTION
Subpart ZZZZ - STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE)

Applicable State Regulations

Regulation
33.1-15-14-06. Title V Permit to Operate.
33.1-15-12. Standards of Performance for New Stationary Sources.
33.1-15-13. Emission Standards for Hazardous Air Pollutants.
33.1-15-15. Prevention of Significant Deterioration of Air Quality.
33.1-15-22. Emissions Standards for Hazardous Air Pollutants for Source Categories.
33.1-15-02-04. Ambient air quality standards.
33.1-15-06-01.2 Restriction of emissions of sulfur dioxide from use of fuel. Restrictions applicable to fuel burning installations.
33.1-15-03-02. Visible Emissions. Restrictions applicable to new installations and all incinerators.

Potential to Emit (PTE)

Pollutant	Tons Per Year Without Fugitives	Tons Per Year With Fugitives
NOx	335.84	335.84
CO	219.35	219.35
VOCs	736.84	736.84
SO2	369.87	369.87
PM	66.24	101.23
PM10	204.57	228.51
PM2.5	200.47	214.63
Total HAPs	50.91	50.91

Emission Calculations Document Upload

Using the attachment control below, upload emission calculations documents.

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application.

Attach Emission Calculations Documents

ADM_Title V App_Potential Emissions_DRAFT.xlsx - 08/26/2025 02:36 PM
Comment
NONE PROVIDED

Section G - Compliance Schedule

Will your facility be in compliance with all applicable requirements effective at the time of permit issuance?

Yes

Will your facility be in compliance with all applicable requirements effective after the time of permit issuance?

Yes

Section H - Flexible Permits

Are you requesting a flexible permit?

No

Section I - Compliance Assurance Monitoring (CAM)

To determine if your facility is subject to CAM, review the information provided at the following link.

[Compliance Assurance Monitoring \(CAM\) Guidance](#)

Is the facility identified in this application in compliance with applicable monitoring and compliance certification requirements?

Yes, the facility IS in compliance with applicable monitoring and compliance certification requirements.

Section K - Redline Permit Upload

Use the attachment control below to upload a redline version of your existing permit document, showing any changes.

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application.

Attach redline version of permit here

AOP28378v5_0_Redlined version.docx - 09/09/2025 02:24 PM

Comment

Various PTC PM limits are being requested to be removed, as are emission limits for units that vent indoors, and Condition 5.B.15 as the applicable 5-year period has ended. The application also has proposed emission limits changes for the JTA Boiler to align with the changing emission limits for NESHAP Subpart DDDDD. EU11 has been modified by replacing the 2 cyclones and upgrading the 75 hp fan to a 100 hp fan. EU71 is also being requested to be removed from the OP as it was taken out of service in 2018.

Section L - General Document Upload

File Upload

Use the attachment control below to upload any other information necessary for application review, such as plot plans, process diagrams, maps, etc.

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application.

Attachments

ADM Enderlin - Title V Renewal - Project Description.docx - 09/09/2025 02:24 PM

Comment

NONE PROVIDED

Additional Forms

NONE PROVIDED

Attachments

Date	Attachment Name	Context	User
9/9/2025 2:24 PM	ADM Enderlin - Title V Renewal - Project Description.docx	Attachment	Samuel Hansen
9/9/2025 2:24 PM	AOP28378v5_0_Redlined version.docx	Attachment	Samuel Hansen
8/26/2025 2:36 PM	ADM_Title V App_Potential Emissions_DRAFT.xlsx	Attachment	Samuel Hansen

Status History

	User	Processing Status
7/22/2025 1:25:33 PM	Samuel Hansen	Draft
9/10/2025 11:36:45 AM	Michael Odland	Signing
9/10/2025 11:36:45 AM	Michael Odland	Submitting
9/10/2025 11:38:13 AM	Michael Odland	Submitted

	User	Processing Status
9/10/2025 11:38:22 AM	Michael Odland	In Process

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- ☒ I am the owner of the account used to perform the electronic submission and signature.
- ☒ I have the authority to submit the data on behalf of the facility I am representing.
- ☒ I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- ☒ I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

I certify under penalty of law that the enclosed documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I also certify that the source(s) identified in this application is/are in compliance with all applicable requirements except those requirements for which a compliance schedule has been submitted in the Compliance Schedule Form or Compliance Schedule Section of the application. I understand that failure to comply with any term of a compliance schedule is considered to be a violation of regulation NDAC 33.1-15-14-06.1.e. The source will continue to comply with the current applicable requirements with which it is in compliance. The source will meet, on a timely basis, any applicable requirement, which becomes effective during the permit term. The source is properly implementing any required risk management plan in accordance with section 112(r) of the federal clean air act, if appropriate.

I certify, as the Responsible Official, that I have read and understood the above requirements and conditions applicable to my source/facility and that the information and attachments provided in this application are true, accurate, and complete to the best of my knowledge." Further, I agree to comply with the provisions of Chapter 23.1-06 of the North Dakota Century Code and all rules and regulations of the Department, or revisions thereof. I also understand a permit is nontransferable and, if granted a permit, I will promptly notify the Department upon sale or legal transfer of this permitted establishment.

Note: This certification must be signed by a "responsible official" as defined in NDAC 33.1-15-14-06.1.

**Signed
By**

Michael Odland on 09/10/2025 at 11:36 AM

ADM Enderlin

Title V Renewal Application

Project Description

The Archer Daniels Midland Company's Enderlin plant (ADM) is submitting a Title V Renewal Application as the expiration date for the current Air Operating Permit (AOP-28378 v5.0, issued October 5th, 2023) is May 15, 2026. Part of this AOP renewal application includes a request to remove particulate matter (PM) limits from various permits-to-construct and are detailed in the following section. This application also includes a request to modify the limits to the JTA Boiler (EU17) as the emission limits in NESHAP Subpart DDDDD are being updated, effective October 6th, 2025. These JTA Boiler emission limit adjustment requests are detailed in this document.

Removal of Permit-to-Construct Limits

ADM and NDDEQ have discussed the possibility of removing certain particulate matter (PM) emission limits that were assigned years ago and do not provide any meaningful significance in terms of permit compliance. Most of these PM emission limits were originated from permit-to-constructs (PTCs) that were issued more than 20 years ago, and stack testing has never been required or performed. NDDEQ indicated that they are amenable to the removal of some of these PM PTC limits and suggested ADM request the removal of the limits in this Title V Renewal application. The requested limits to be removed are detailed in Table 1.

Table 1. Summary of PM PTC Emission Limits Requested to be Removed

EU ID#	EU Description	Limits Requested to be Removed	Emission Limit Reference
EU05	Dehuller system	PM: 3.80 lb/hr	PTC98002
EU06	Dehuller system	PM: 3.80 lb/hr	PTC98002
EU07	Hull storage tanks	PM: 0.05 lb/hr	PTC98002
EU08	Elevators, & conveyors	PM: 0.72 lb/hr	PTC06004
EU11	Meal/hull processing	PM: 0.60 lb/hr	PTC98002
EU12	Hammermills	PM: 0.12 lb/hr	PTC98010
EU23	Dry seed tank vents (10)	PM: 0.01 lb/hr	PTC98002
EU26	FM Tank - Transferring	PM: 0.04 lb/hr	PTC98002
EU29	Day tank	PM: 0.01 lb/hr	PTC98002
EU51	Seed Receiving	PM: 0.28 lb/hr	PTC98002
EU52	Seed Cleaning	PM: 0.30 lb/hr	PTC98002
EU53	Seed Storage	PM: 0.13 lb/hr	PTC98002
EU54	Filter aid receiving	PM: 0.01 lb/hr	PTC98002

EU ID#	EU Description	Limits Requested to be Removed	Emission Limit Reference
EU55	Bleaching clay receiving	PM: 0.01 lb/hr	PTC98002
EU56	Rotary Seed Conditioner	PM: 0.55 lb/hr	PTC98002
EU59	Meal Loadout - Truck	PM: 0.32 lb/hr	PTC98010
EU60	Meal Loadout - Rail	PM: 0.19 lb/hr	PTC98010
EU61	Desolventizer-toaster-dryer-cooler (DTDC)	PM: 0.42 lb/hr	PTC98002
EU63	Whole seed conditioner	PM: 0.63 lb/hr	PTC98002
EU65	Hull grinding	PM: 0.03 lb/hr	PTC98002
EU68	Dehulling area	PM: 0.32 lb/hr	PTC98010
EU71	Bean dryer	PM: 0.5 lb/hr	PTC98017
EU72	Bean dehydrator	PM: 0.10 lb/hr	PTC98017
EU79	Wood/PC grain fuel receiving station	PM: 0.17 lb/hr	PTC06004

Removal of Emission Limits for Stacks that Vent Indoors

In addition to the removal of the requested PM PTC limits above, ADM also requests that the NDDEQ remove several emission limits from stacks that vent indoors. These units have no direct emissions to the exterior of the buildings and therefore these limits should be removed. The emission limits and the associated emission unit ID#s and description are provided in Table 2.

Table 2. Summary of PM Emission Limits Exhausted Indoors Requested to be Removed

EU ID#	EU Description	Limits Requested to be Removed	Emission Limit Reference
PI-14	Starch pack tank #1	PM: 0.010 gr/scf	ACP-17820 v1.1
PI-15	Starch pack tank #2	PM: 0.010 gr/scf	ACP-17820 v1.1
PI-18	Isolate pack tank #1	PM: 0.010 gr/scf	ACP-17820 v1.1
PI-19	Isolate pack tank #2	PM: 0.010 gr/scf	ACP-17820 v1.1
PI-20	Isolate pack tank #3	PM: 0.010 gr/scf	ACP-17820 v1.1
PI-21	Isolate pack tank #4	PM: 0.010 gr/scf	ACP-17820 v1.1

The removal of these units also necessitates the removal of footnote E from Table 4.A. for the emission unit limits in AOP-28378 v5.0.

Lowering of JTA Boiler Emission Limits

In addition to the PTC PM emission limits removal request, ADM is also requesting that the emission limits for the JTA Boiler (EU64) be modified to align with the updated emission

standards in NESHAP Subpart DDDDD, which become effective October 6th, 2025. There are no physical or operational changes to the JTA Boiler associated with this request, only the desire to have the renewed operating permit to reflect the updated Subpart DDDDD emission limits. Table 3 details the current JTA Boiler emission limits and the proposed emission limits based upon the proposed changes to NESHAP Subpart DDDDD.

Table 3. Current and Proposed NESHAP Subpart DDDDD Limits for JTA Boiler
(proposed limits in **bold**)

EU ID# and Description	Current Limit ^[1]	Proposed Limit ^[1]
EU17 JTA Boiler	Filterable PM (TSM): 0.037 lb/MMBtu (or 0.00024 lb/MMBtu) ^[2]	Filterable PM (TSM): 0.034 lb/MMBtu (or 0.0002 lb/MMBtu) ^[2]
	CO: 1,500 ppm @ 3% O ₂ (stack test 3 run avg.)	CO: 1,100 ppm @ 3% O ₂ (stack test 3 run avg.)
	Hg: 5.7e-06 lb/MMBtu	Hg: 5.4e-06 lb/MMBtu
	HCl: 0.022 lb/MMBtu	HCl: 0.02 lb/MMBtu

^[1] The current and proposed limits in this table are only for the applicable NESHAP Subpart DDDDD limits for the JTA Boiler. There are other emission limits that the JTA Boiler are subject to that are not in this table.

^[2] The lb/MMBtu PM emission limits established in Subpart DDDDD are more stringent than the lb/MMBtu emission limits established by BACT, 40 CFR 60, Subpart Db, and PTC98002.

Other Title V Renewal Updates

EU11

ADM would like to request the update of the Meal/Hull Processing Emission Unit 11 (EU11/EP11) in accordance with correspondence from NDDEQ, dated April 10, 2025. Two new cyclones and an upgraded fan (100 hp) have been installed in May 2025 replacing two old cyclones and one 75 hp fan. ADM believes it was a typo of the previous permit that mentioned only one cyclone. During the annual inspection in June 2025, the NDDEQ saw the emission point at the plant – ADM was told that a review of EU11 will be conducted during the next permit renewal or revision of AOP-28378 v5.0 to determine if EU11 may have two emission units (cyclones) associated with EP11.

EU71

The Bean Dryer emission unit (EU71/EP71) has been out of service since 2018. Thus, ADM is requesting that this emission unit and its associated permit requirements be removed from this Title V permit.

AIR POLLUTION CONTROL TITLE V PERMIT TO OPERATE

Permittee: Name: Archer Daniels Midland Company (ADM) Address: P.O. Box 1470 Decatur, IL 62525	Permit Number: AOP-28378 v5.0 Source Name: Enderlin Facility
Source Location: 5525 - 136 th Avenue SE Enderlin, ND 58027 Ransom County	Source Type: Seed; Oil (Soybean and Other Oilseed Processing)
Expiration Date: May 15, 2026	

Pursuant to Chapter 23.1-06 of the North Dakota Century Code (NDCC), and the Air Pollution Control Rules of the State of North Dakota, Article 33.1-15 of the North Dakota Administrative Code (NDAC), and in reliance on statements and representations heretofore made by the permittee (i.e., owner) designated above, a Title V Permit to Operate is hereby issued authorizing such permittee to operate the emissions units at the location designated above. This Title V Permit to Operate is subject to all applicable rules and orders now or hereafter in effect of the North Dakota Department of Environmental Quality (Department) and to any conditions specified on the following pages. All conditions are enforceable by EPA and citizens under the Clean Air Act unless otherwise noted.

Renewal: 10/5/23

James L. Semerad
Director
Division of Air Quality

Enderlin Facility
Title V Permit to Operate
Table of Contents

<u>Condition</u>	<u>Page No.</u>
1. Emission Unit Identification	3
2. Boilers Restrictions	5
3. Applicable Standards and Miscellaneous Conditions	7
4. Emission Unit Limits and JTA Boiler Opacity	10
5. Monitoring Requirements and Conditions	15
6. Recordkeeping Requirements	25
7. Reporting	29
8. Facility Wide Operating Conditions	30
9. General Conditions	36
10. State Enforceable Only Conditions (not Federally enforceable)	41

Attachment A – Compliance Assurance Monitoring (CAM) Plan for EU 05, EU 06, EU 08, EU 17, EU 70, EU 77 (EP 70), EU PI-25 (EP 70), EU PI-07B (EP PI-03), EU PI-09, EU PI-16 and EU PI-17

1. **Emission Unit Identification:**

The emission units regulated by this permit are as follows:

A. **Processing Equipment:**

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Dehuller system	05	05	Cyclone
Dehuller system	06	06	Cyclone
Hull storage bin vents	07 ^A	07	Bagfilter
Elevators & conveyors	08	08	Cyclone
Meal/hull processing	11	11	Cyclones (2)
Hammermills	12 ^A	12	Bagfilter
A dryer	15 ^A	15	None/Fugitive Emissions
West building vents (DD)	22 ^A	22	None/Fugitive Emissions
Dry seed tank vents (10) (DD)	23 ^A	23	Bagfilters (10)
Meal storage tanks	25 ^A	25	Bagfilter
FM tank-transferring	26 ^A	26	Bagfilter
Day tank	29 ^A	29	Bagfilter
Fly ash and bottom ash loadout	30 ^A	30	Bagfilter
Seed receiving (DD)	51 ^A	51	Bagfilter
Whole seed truck loading spout	51a ^A	Fug1	None
Whole seed rail loading spout	51b ^A	Fug 2	None
Seed cleaning (DD)	52 ^A	52	Bagfilter
Seed storage (DD)	53 ^{A, B}	53	Bagfilter
Filter aid receiving	54 ^A	54	Bagfilter
Bleaching clay receiving	55 ^A	55	Bagfilter
Rotary seed conditioner	56	56	Cyclone
East building vents (DD)	57 ^A	57	None/Fugitive Emissions
Expeller aspiration	58	58	Cyclones (2)
Truck meal loadout	59 ^A	59	Bagfilter
Rail meal loadout	60 ^A	60	Bagfilter
Rail meal unload pit	60a ^A	Fug 3	None
Desolventizer-toaster-dryer-cooler (DTDC)	61	61	Cyclones (2)
Whole seed conditioner	63	63	Cyclone
Hull grinding	65 ^A	65	Bagfilter
Refinery vacuum system vent	66 ^A	66	None
Main vent (hexane extraction)	67	67	Condensation/Mineral Oil Absorption
Dehulling area	68 ^A	68	Bagfilter

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Bean receiving/storage/handling	70 ^C	70	Bagfilter
Bean/bean powder conveying/storage/packaging	77 ^D		
Isolate valve packer receiver	PI-22		
Isolate super sacker receiver	PI-23		
Isolate valve packer aspiration	PI-24		
Pea hull loadout aspiration	PI-25		
Bean dryer	71 ^A	71	Cyclone
Bean dehydrator	72 ^A	72	None
Wood/PC grain fuel receiving station	79 ^A	79	Bagfilter
B335A raw flake conveyor vent fan	84 ^A	84	None
C101F L – path fan	85 ^A	85	None
Raw legume transport	PI-03	PI-03	Bagfilter
Raw legume screening	PI-04		
Raw legume split conditioner	PI-05		
Legume split flacking	PI-06		
Hull separation aspiration	PI-07A		
Hulls grinder blowline	PI-07B		
Hulls transport to storage	PI-07C ^A	PI-07	Bagfilter
Starch pack tank #1	PI-14 ^E	PI-14	Bagfilter
Starch pack tank #2	PI-15 ^E	PI-15	Bagfilter
Isolate sizing	PI-17 ^A	PI-17	Bagfilter
Isolate pack tank #1	PI-18 ^E	PI-18	Bagfilter
Isolate pack tank #2	PI-19 ^E	PI-19	Bagfilter
Isolate pack tank #3	PI-20 ^E	PI-20	Bagfilter
Isolate pack tank #4	PI-21 ^E	PI-21	Bagfilter
WWTP anaerobic reactor	FR-01 ^F	FR-01	Caustic Scrubber & Biogas Flare
Biogas flare	FR-02		None

^A Insignificant or fugitive emission sources (no specific emission limit).

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

^C Includes eight tanks: four on the east side (numbered 1011, 1012, 1013, 1014) and four on the west side (numbered 1021, 1022, 1023, 1024). Tank 1011 was repurposed by the Legume Protein Isolate Project to PI-01 Raw Legume Storage Tank.

^D Includes four tanks, including PI-08, some pneumatic conveying, and the bean packaging equipment. PI-08 was repurposed by the Legume Protein Isolate Project as the hulls storage and loadout tank.

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

^F Emissions from this unit are first routed through a wet scrubber for the control of sulfur compounds, and then combusted at the flare EP FR-01.

B. Fuel Burning Equipment:

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
JTA boiler rated at 280×10^6 Btu/hr (nominal) and fired on hulls, biomass, railroad ties and clean wood (constructed 1998, Db, DDDDD)	17	17	ESP
125 bhp diesel engine driven emergency generator (constructed 1982, ZZZZ)	33 ^B	33	None
Newpoint NUK natural gas-fired (No. 2 fuel oil backup) boiler rated at 15×10^6 Btu/hr (constructed 2010, Dc, DDDDD)	62	62	None
Trane Murray natural gas/LPG-fired (No. 2 fuel oil backup) boiler rated at 180×10^6 Btu/hr (nominal) (constructed 1977, DDDDD)	64	64	None
1,818 bhp Caterpillar diesel engine driven emergency generator (manuf. 1997, ZZZZ)	69 ^B	69	None
285 bhp diesel fire pump #1 engine (manuf. 1981, ZZZZ)	81 ^{A, B}	81	None
460 bhp diesel fire pump #2 engine (manuf. 1996, ZZZZ)	82 ^{A, B}	82	None
Starch flash dryer equipped with a natural gas-fired burner rated at 30×10^6 Btu/hr	PI-09	PI-09	Scrubber
Isolate spray dryer system equipped with a natural gas-fired burner rated at 32×10^6 Btu/hr	PI-16	PI-16a	Bagfilter
		PI-16b	Bagfilter

^A Insignificant or fugitive emission sources (no specific emission limit).

^B The potential to emit for an emergency stationary reciprocating internal combustion engine (RICE) is based on operating no more hours per year than is allowed by the subpart (40 CFR 63, Subpart ZZZZ) for other than emergency situations. For engines to be considered emergency stationary RICE under the RICE rules, engine operations must comply with the operating hour limits as specified in the applicable subpart. There is no time limit on the use of emergency stationary RICE in emergency situations [40 CFR 63, Subpart ZZZZ, §63.6640(f)].

C. JTA Boiler (EU 17) CEMS and CERMS:

CEMS:	SO ₂	NO _x	CO ₂
CERMS:	SO ₂	CO ₂	Flow

Applicable Requirements: Permit to Construct (PTC)06004 & NDAC 33.1-15-12-02, Subpart Db

2. Boilers Restrictions:

A. Fuel Restrictions: The following fuels are authorized for the JTA boiler (EU17):

- 1) Hulls consisting of sunflower and/or soybean hulls.

- 2) Biomass fuel which includes oilseeds/small grains/edible beans, seeds, screenings and seed derivatives, including vegetable oil dewaxing and filtration cake process materials, at various percentages.
- 3) Railroad ties (including bridge timbers, signal poles and similar such material) that have only been pressure treated with creosote, bunker C, or similar such nonhazardous substances. Railroad ties treated with hazardous substances, such as chromate copper arsenate or pentachlorophenol, are not included in this definition and may not be burned.
- 4) Clean wood consisting of untreated wood or untreated wood products including clean and untreated lumber, tree stumps (whole or chipped), and tree limbs (whole or chipped). Clean wood does not include yard waste (as defined in 40 CFR 60.51b) or construction, renovation, and demolition wastes (including but not limited to railroad ties and telephone poles).
- 5) Additional fuels may be burned in the JTA boiler with Department approval.

Applicable Requirements: PTC06004 and NDAC 33.1-15-14-03.6

B. Operations Restrictions:

- 1) JTA Boiler (EU 17):
 - a) Operation of the JTA boiler is limited to a steam output of 164,200 lb/hr (1-hr avg.) of steam. Department approval must be obtained prior to routine operation of the boiler at a steam output greater than 164,200 lb/hr of steam. Department approval will be based upon performance test results demonstrating compliance with the applicable emission limits while operating at least 90% of the requested steam output. For purposes of demonstrating compliance, the boiler will be allowed to operate at a steam output greater than 164,200 lb/hr of steam for up to 60 days after the 164,200 lb/hr limit is initially exceeded. Compliance with the applicable emission limits must be demonstrated within the 60-day period, subject to extensions for cause. A compliance report is due within 45 days following completion of testing.

Applicable Requirement: NDAC 33.1-15-14-06.5.b(1)

- b) Operation of the JTA boiler is limited to steam loads of 145,555 lb/hr when RRT and clean wood exceed 56.0% by weight of the total fuel load. The amount of RRT and clean wood that may be combusted in the JTA boiler is limited to a maximum of 75.8% by weight as determined on a monthly basis. The 75.8% by weight rate is based on the most recent tests that were conducted in August 2011 to develop a CAM Plan for the JTA boiler. Department approval must be obtained prior to routine operation of the boiler at a rate higher than 75.8% by weight. Department approval will be based upon performance test results demonstrating compliance with the applicable emission limits while operation at rates above the 75.8% level. For purposes of demonstrating compliance, the boiler will be allowed to operate at

a rate above the 75.8% level for up to 60 days after the 75.8% level is initially exceeded. Compliance with the applicable emission limits must be demonstrated within the 60-day period and a compliance report is due within 45 days following completion of testing.

Applicable Requirement: NDAC 33.1-15-14-06.5.b(1)

- c) For boilers and process heaters subject to a CO emission limit that demonstrate compliance with an O₂ analyzer system as specified in §63.7525(a), maintain the 30-day rolling average oxygen content at or above the lowest hourly average oxygen concentration measured during the CO performance test, as specified in Table 8 of 40 CFR 63, Subpart DDDDD (5D). This requirement does not apply to units that install an oxygen trim system since these units will set the trim system to the level specified in §63.7525(a).

Applicable Requirement: NDAC 33.1-15-22-03, Subpart 5D, Table 4 (item 8)

- 2) Newpoint NUK Boiler (EU 62) and Trane Murray Boiler (EU 64):

- a) Combined No. 2 fuel oil usage for EU 62 and EU 64 is limited to 3,980,841 gallons per 12-month rolling total.

Applicable Requirement: NDAC 33.1-15-14-06.5.b(1)

- b) EU 64 is limited to 100,000 lb/hr (1-hr avg) steam output when combusting fuel oil and 115,000 lb/hr (1-hr avg) steam output when combusting natural gas.

Applicable Requirement: NDAC 33.1-15-14-06.5.b(1) (ADM 10/23/14 request)

- 3) Average Operating Load: For boilers and process heaters that demonstrate compliance with a performance test, maintain the 30-day rolling average operating load of each unit such that it does not exceed 110 percent of the highest hourly average operating load recorded during the performance test.

Applicable Requirement: NDAC 33.1-15-22-03, Subpart 5D, Table 4 (item 7)

3. **Applicable Standards and Miscellaneous Conditions:**

A. **Flaring Restrictions:**

- 1) When it is necessary to operate the flare (EU FR-02) during emergency, malfunction or maintenance, all precautions shall be taken to minimize emissions and maintain compliance with the applicable ambient air quality standards as outlined in NDAC 33.1-15-02 and the opacity standard of 20% not to exceed 60% for more than one six-minute period per hour.

- 2) The flare (EU FR-02) must be equipped and operated with an automatic ignitor or a continuous burning pilot which must be maintained in good working order as outlined in NDAC 33.1-15-07-02.
- 3) The presence of a flame shall be monitored using a thermocouple or any other equivalent device approved by the Department.

Applicable Requirement: NDAC 33.1-15-14-06.5.b(1)

B. New Source Performance Standards (NSPS): The permittee shall comply with all applicable requirements of the following NDAC 33.1-15-12-02 and 40 CFR 60 subparts in addition to complying with Subpart A - General Provisions.

- 1) Subpart Db - Standards for Performance for Industrial – Commercial - Institutional Steam Generating Units [JTA Boiler (EU 17)].

Applicable Requirement: NDAC 33.1-15-12-02, Subpart Db

- 2) Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [Newpoint NUK boiler (EU 62)].

Applicable Requirement: NDAC 33.1-15-12-02, Subpart Dc

- 3) Subpart DD - Standards of Performance for Grain Elevators [various pieces of seed handling equipment (EU 22, 23, 51, 52, 53 and 57)].

Applicable Requirement: NDAC 33.1-15-12-02, Subpart DD

C. National Emission Standards for Hazardous Air Pollutants (NESHAP)/Maximum Achievable Control Technology (MACT) Standards: The permittee shall comply with all applicable requirements of the following NDAC 33.1-15-22-03 and 40 CFR 63 subparts in addition to complying with Subpart A - General Provisions.

- 1) Subpart GGGG (4G) - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production.

Applicable Requirement: NDAC 33.1-15-22-03, Subpart GGGG

- 2) Subpart ZZZZ (4Z) - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (EU 33, 69, 81 and 82).

Applicable Requirement: NDAC 33.1-15-22-03, Subpart ZZZZ

- 3) Subpart DDDDD (5D) - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters (EU 17, 62 and 64).

- a) The permittee has stated the intent to operate the gas/oil boilers (EU 62 and 64) as "units designed to burn gas 1" as defined by NDAC 33.1-15-22-03, Subpart 5D.

These boilers will primarily burn natural gas and will burn liquid fuel only for periodic testing of liquid fuel, maintenance, or operator training not to exceed a combined total of 48 hours during any calendar year. Gaseous fuel boilers that burn liquid fuel during periods of gas curtailment or gas supply interruptions of any duration are also included in this definition. If fuel use recordkeeping for these boilers does not confirm boiler operation in compliance with the "gas 1" definition, additional NDAC 33.1-15-22-03, Subpart 5D emission limits and requirements apply.

- b) Conduct a tune-up of the JTA (EU 17) and gas boilers (EU 62 and 64) annually, no later than 13 months after the previous tune-up, in accordance with §63.7540(a)(10). Alternatively, boilers with a continuous oxygen trim system that maintain an optimum air to fuel ratio must conduct a tune-up every 5 years, as specified in §63.7540(a)(10)(i) through (vi).

Applicable Requirement: NDAC 33.1-15-22-03, Subpart 5D

D. Hexane VOC Solvent Loss Ratio (SLR):

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

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

Where:

Compliance Ratio = Actual Solvent Loss/ $\Sigma[(Crush_i) * (SLF_i)]$;

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

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

$Crush_i$ = Tons of each oilseed type "i" process during the previous 12 operating months during normal operating periods; and

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

Applicable Requirement: NDAC 33.1-15-14-06.5.b(1)

- E. **Dryer Burners Fuel Restriction:** The burners for the starch flash dryer (EU PI-09) and the isolate spray dryer system (EU PI-16) are restricted to combusting only natural gas containing no more than 2 grains of sulfur per 100 standard cubic feet.

Applicable Requirement: ACP-17820 v1.1

- F. **Air Pollution Control Equipment:** The permittee shall maintain and operate air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. The manufacturer's recommended Operations and Maintenance (O&M) procedures, or a site-specific O&M procedure (developed from the manufacturer's recommended O&M procedure), shall be followed to assure proper operation and maintenance of the equipment. The permittee shall have the O&M plan available on-site and provide the Department with a copy when requested.

Applicable Requirement: NDAC 33.1-15-14-096.5a(3)(a)

- G. **Like-Kind Engine Replacement:** This permit allows the permittee to replace the existing engine with a like-kind engine. Replacement is subject to the following conditions:

- 1) The Department must be notified 10 days after change-out of the engine.
- 2) The replacement engine shall operate in the same manner, provide no increase in throughput and have equal or less emissions than the engine it is replacing.
- 3) The date of manufacture of the replacement engine must be included in the notification. The facility must comply with any applicable federal standards (e.g. NSPS, NESHAP, MACT) triggered by the replacement.
- 4) The replacement engine is subject to the same state emission limits as the existing engine in addition to any NSPS or MACT emission limit that is applicable.

Applicable Requirement: NDAC 33.1-15-14-06.5.b(1)

4. Emission Unit Limits:

A. Processing Equipment:

Emission Unit Description	EU	EP	Pollutant/ Parameter	Emission/ Parameter Limit ^A	NDAC Applicable Requirement
Dehuller system	05	05	PM	3.80 lb/hr	PTC98002
Dehuller system	06	06	PM	3.80 lb/hr	PTC98002
Hull storage bin vents	07	07	PM	0.05 lb/hr	PTC98002
Elevators & conveyors	08	08	PM/PM ₁₀	0.72 lb/hr	PTC06004
Meal/hull processing	11	11	PM	0.60 lb/hr	PTC98002
Hammermills	12	12	PM	0.12 lb/hr	PTC98010
West building vents	22	22	Opacity (fugitive)	0%	33.1-15-12, Subpart DD

Emission Unit Description	EU	EP	Pollutant/ Parameter	Emission/ Parameter Limit ^A	NDAC Applicable Requirement
Dry seed tank vents (10)	23	23	PM	0.01 lb/hr & 0.01 gr/dscf (each vent)	PTC98002 & 33.1-15-12, Subpart DD
			Opacity	0% (each vent)	33.1-15-12, Subpart DD
Meal storage tanks	25	25	PM	0.07 lb/hr	33.1-15-14-06.5.b(1)
FM tank transferring	26	26	PM	0.04 lb/hr	PTC98002
Day tank	29	29	PM	0.01 lb/hr	PTC98002
Fly ash and bottom ash loadout	30	30	PM	0.21 lb/hr	33.1-15-14-06.5.b(1)
Seed receiving	51	51	PM	0.28 lb/hr & 0.01 gr/dscf	PTC98002 & 33.1-15-12, Subpart DD
			Opacity	0%	33.1-15-12, Subpart DD
Seed cleaning	52	52	PM	0.30 lb/hr & 0.01 gr/dscf	PTC98002 & 33.1-15-12, Subpart DD
			Opacity	0%	33.1-15-12, Subpart DD
Seed storage	53	53	PM	0.13 lb/hr & 0.01 gr/dscf	PTC98002 & 33.1-15-12, Subpart DD
			Opacity	0%	33.1-15-12, Subpart DD
Filter aid receiving	54	54	PM	0.01 lb/hr	PTC98002
Bleaching clay receiving	55	55	PM	0.01 lb/hr	PTC98002
Rotary seed conditioner	56	56	PM	0.55 lb/hr	PTC98002
East building vents	57	57	Opacity (fugitive)	0%	33.1-15-12, Subpart DD
Expeller aspiration	58	58	PM	0.86 lb/hr	PTC98002 & ACP-17153 v1.0
Truck meal loadout	59	59	PM	0.32 lb/hr	PTC98010
Rail meal loadout	60	60	PM	0.19 lb/hr	PTC98010
Desolventizer-toaster-dryer- cooler (DTDC)	61	61	PM	0.42 lb/hr	PTC98002
			n-Hexane	Condition (Cond.) 3.B.1	40 CFR 63, Subpart 4G
			Hexane	Cond. 3.D	33.1-15-14-06.5.b(1)
Whole seed conditioner	63	63	PM	0.63 lb/hr	PTC98002
Hull grinding	65	65	PM	0.03 lb/hr	PTC98002
Main vent (hexane extraction)	67	67	n-Hexane	Cond. 3.B.1	40 CFR 63, Subpart 4G
			Hexane	Cond. 3.D	33.1-15-14-06.5.b(1)
Processing equipment	Facility -wide	Facility -wide	Oil seeds	3,000 ton/day (amount processed)	PTC98002
Dehulling area bagfilter	68	68	PM	0.32 lb/hr	PTC98010
Bean receiving/storage/ handling	70 ^B	70	PM	0.69 lb/hr	PTC98017, PTC03004 & ACP-17493 v1.0

Emission Unit Description	EU	EP	Pollutant/ Parameter	Emission/ Parameter Limit ^A	NDAC Applicable Requirement
Bean/bean powder conveying/ storage/packaging	77 ^C				
Isolate valve packer receiver	PI-22				
Isolate super sacker receiver	PI-23				
Isolate valve packer aspiration	PI-24				
Pea hull loadout aspiration	PI-25				
Bean dryer	71	71	PM	0.5 lb/hr	PTC98017
			PM₁₀	0.13 lb/hr	PTC98017
Bean dehydrator	72	72	PM	0.1 lb/hr	PTC98017
			PM ₁₀	0.024 lb/hr	PTC98017
Wood/PC grain fuel receiving station	79	79	PM/PM₁₀	0.001 gr/dscf & 0.17 lb/hr	PTC06004 PTC06004
Raw legume transport	PI-03	PI-03	PM	0.010 gr/scf	ACP-17820 v1.1
Raw legume screening	PI-04				
Raw legume split conditioner	PI-05				
Legume split flacking	PI-06				
Hull separation aspiration	PI-07A				
Hulls grinder blowline	PI-07B				
Starch pack tank #1	PI-14^B	PI-14	PM	0.010 gr/scf	ACP-17820 v1.1
Starch pack tank #2	PI-15^B	PI-15	PM	0.010 gr/scf	ACP-17820 v1.1
Isolate sizing	PI-17	PI-17	PM	0.010 gr/scf	ACP-17820 v1.1
Isolate pack tank #1	PI-18^B	PI-18	PM	0.010 gr/scf	ACP-17820 v1.1
Isolate pack tank #2	PI-19^B	PI-19	PM	0.010 gr/scf	ACP-17820 v1.1
Isolate pack tank #3	PI-20^B	PI-20	PM	0.010 gr/scf	ACP-17820 v1.1
Isolate pack tank #4	PI-21^B	PI-21	PM	0.010 gr/scf	ACP-17820 v1.1
WWTP anaerobic reactor with caustic scrubber & biogas flare	FR-01/ FR-02	FR-01	SO ₂	35.10 tons/12- month rolling total	ACP-18183 v1.0
			Opacity	20% ^D	ACP-18183 v1.0 & ACP-17820 v1.1

^A In addition to the listed emission limits, emissions from all processing equipment emission points are limited to 20% opacity except for one six-minute period per hour not to exceed 40% opacity, unless otherwise noted, or as provided under NDAC 33.1-15-03-04 [NDAC 33.1-15-03-02].

^B Includes eight tanks: four on the east side (numbered 1011, 1012, 1013, 1014) and four on the west side (numbered 1021, 1022, 1023, 1024). Tank 1011 was repurposed by the Legume Protein Isolate Project to PI-01 Raw Legume Storage Tank.

^C Includes four tanks, including PI-08, some pneumatic conveying, and the bean packaging equipment. PI-08 was repurposed by the Legume Protein Isolate Project as the hulls storage and loadout tank.

^D Emissions are limited to 20% opacity except for one six-minute period per hour not to exceed 60% opacity per NDAC 33.1-15-03-03.1, or as otherwise exempt under NDAC 33.1-15-03-04.

^E ~~These emission points discharge indoors, no direct emission to the exterior of the buildings.~~

B. Fuel Burning Equipment:

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit	NDAC Applicable Requirement
JTA boiler	17 ^A	17	Filterable PM (or TSM ^B)	0.037 0.034 lb/10 ⁶ Btu (or 0.00024 0.0002 lb/10 ⁶ Btu) ^C	33.1-15-22-03, Subpart 5D
			PM ₁₀	38.0 lb/hr (3-hr avg.)	33.1-15-15-01.2 (BACT)
			SO ₂	When combusting creosote-treated railroad ties or clean wood: 0.47 lb/10 ⁶ Btu (24-hr block avg.)	33.1-15-15-01.2 (BACT)
				When combusting any fuel: 131.6 lb/hr (24-hr block avg.) & 265.0 lb/hr (1-hr avg.) & 334.0 tons/yr (12 m.r.t.) & 3.0 lb/10 ⁶ Btu (1-hr avg.)	33.1-15-15-01.2 33.1-15-02-04 33.1-15-15-01.2 33.1-15-06-01.2
			NO _x	0.20 lb/10 ⁶ Btu (30 d.r.a.)	33.1-15-15-01.2 (BACT)
			CO	0.63 lb/10 ⁶ Btu & 1,500 1,100 ppm @ 3% O ₂ (stack test 3 run avg.)	PTC98002, 33.1-15-15-01.2 (BACT) & 33.1-15-22-03, Subpart 5D
			Hg	0.0000057 0.0000054 lb/10 ⁶ Btu	33.1-15-22-03, Subpart 5D
			HCl	0.022 0.020 lb/10 ⁶ Btu	33.1-15-22-03, Subpart 5D
			Opacity	Cond. 4.C	33.1-15-12, Subpart Db & 33.1-15-22-03, Subpart 5D
Emergency diesel generator engine	33	33	NO _x	0.5 lb/hr	PTC98002
			CO	0.1 lb/hr	PTC98002
			Opacity	20% ^D	33.1-15-03-02
			Operating Hours	Cond. 1.B Footnote B & 3.B.2	33.1-15-22, Subpart 4Z
Newpoint NUK boiler	62 ^A	62	SO ₂	0.05 lb/10 ⁶ Btu ^E	33.1-15-12, Subpart Dc
			Opacity	20% ^D	33.1-15-03-02

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit	NDAC Applicable Requirement
Trane Murray boiler	64 ^A	64	<u>Natural Gas/LPG:</u> NO _x	0.053 lb/10 ⁶ Btu	PTC98002
			Opacity	20% ^D	33.1-15-03-02
			<u>No. 2 Fuel Oil:</u> SO ₂	0.05 lb/10 ⁶ Btu ^E	33.1-15-14-06.5.b(1)
			NO _x	0.14 lb/10 ⁶ Btu	PTC98002
			Opacity	20% ^D	33.1-15-03-02
Caterpillar emergency diesel generator engine	69	69	NO _x	38.6 lb/hr	PTC98010
			CO	11.0 lb/hr	PTC98010
			Opacity	20% ^D	33.1-15-03-02
			Operating Hours	Cond. 1.B Footnote B & 3.B.2	33.1-15-22, Subpart 4Z
Diesel fire pump #1 engine	81	81	Opacity	20% ^D	33.1-15-03-02
			Operating Hours	Cond. 1.B Footnote B & 3.B.2	33.1-15-22, Subpart 4Z
Diesel fire pump #2 engine	82	82	Opacity	20% ^D	33.1-15-03-02
			Operating Hours	Cond. 1.B Footnote B & 3.B.2	33.1-15-22, Subpart 4Z
Starch flash dryer	PI-09	PI-09	PM (filterable)	1.2 lb/hr	ACP-17820 v1.1
Isolate spray dryer system	PI-16	PI-16a	PM	0.010 gr/scf	ACP-17820 v1.1
		PI-16b	PM	0.010 gr/scf	ACP-17820 v1.1

^A Additional NDAC 33.1-15-22-03, Subpart 5D emissions limits may apply depending on boiler operation and type of fuel used. See Condition 3.B.3. All methods provided by the rule for demonstrating compliance are available to the permittee, even if those methods may not be specifically stated in this permit.

^B Total Selected Metals (TSM) - arsenic, beryllium, cadmium, chromium, lead, manganese, nickel and selenium

^C The lb/10⁶ Btu emission limits established by 40 CFR 63, Subpart 5D are more stringent than the lb/10⁶ Btu emission limits established by BACT, 40 CFR 60, Subpart Db and PTC98002.

^D 40 % opacity is permissible for not more than one six-minute period per hour or as otherwise exempt under NDAC 33.1-15-03-04.

^E As an alternative, the oil combusted may contain a maximum of 0.05 weight percent sulfur.

Applicable Requirements: NDAC 33.1-15-15-01.4.c(2) (BACT), NDAC 33.1-15-12, Subpart Dc, NDAC 33.1-15-22-03, Subpart 5D & ACP-17820 v1.1

C. JTA Boiler (EU 17) Opacity:

- 1) Opacity of the JTA boiler is limited to 20% (six-minute average) with 40% opacity permissible for not more than one six-minute period per hour with the exception of Condition 4.C.2 below.

Applicable Requirement: NDAC 33.1-15-14-03-02

- 2) Whenever any amount of creosote-treated railroad ties or clean wood are combusted in the JTA boiler, the permittee shall not discharge into the atmosphere any gases that exhibit greater than 20% opacity (six-minute average), except for one six-minute period per hour of not more than 27% opacity.

Applicable Requirement: NDAC 33.1-15-12-02, Subpart Db

- 3) The JTA boiler is limited to less than or equal to 10% opacity (daily block average) or the highest hourly average opacity reading measured during the most recent performance test run demonstrating compliance with the PM (or TSM) emission limitation.

Applicable Requirements: NDAC 33.1-15-22-03, Subpart 5D, Table 4 (item 4.a) and Table 8 (item 1)

5. Monitoring Requirements and Conditions:

A. Requirements:

Emission Unit Description EU/EP	Pollutant/ Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Processing Equipment:				
Dehuller system EU 05/EP 05	PM /Opacity	CAM Plan	5.B.13	33.1-15-14-06.10
Dehuller system EU 06/EP 06	PM /Opacity	CAM Plan	5.B.13	33.1-15-14-06.10
Elevators & conveyors EU 08/EP 08	PM /PM ₁₀ / Opacity	CAM Plan	5.B.13	33.1-15-14-06.10
Meal/hull processing EU 11/EP 11	PM /Opacity	O&M Plan/ Visible Emissions Observations (VEO)	5.B.4)a & 5.B.5	33.1-15-14-06.5.a(3)(a)
Rotary seed conditioner EU 56/EP 56	PM /Opacity	O&M Plan/VEO	5.B.4)a & 5.B.5	33.1-15-14-06.5.a(3)(a)
Expeller aspiration EU 58/EP 58	PM/Opacity	O&M Plan/VEO	5.B.4)b & 5.B.5	33.1-15-14-06.5.a(3)(a)

Emission Unit Description EU/EP	Pollutant/ Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Desolventizer-toaster-dryer-cooler (DTDC) EU 61/EP 61	PM/Opacity	O&M Plan/VEO	5.B.4)a & 5.B.5	33.1-15-14-06.5.a(3)(a)
	n-Hexane	Cond. 3.B.1	--	40 CFR 63, Subpart 4G
	Hexane	Cond. 3.D	--	33.1-15-14-06.5.a(3)(a)
Whole seed conditioner EU 63/EP 63	PM/Opacity	O&M Plan/VEO	5.B.4)a & 5.B.5	33.1-15-14-06.5.a(3)(a)
Main vent (hexane extraction) EU 67/EP 67	n-Hexane	Cond. 3.B.1	--	40 CFR 63, Subpart 4G
	Hexane	Cond. 3.D	--	33.1-15-14-06.5.a(3)(a)
Processing equipment	Oil seeds (amount processed)	Recordkeeping	5.B.9 & 5.B.10	33.1-15-14-06.5.a(3)(a), 33.1-15-15-01.4.c(2)(BACT) & PTC98002
Bean receiving/ storage/handling EU 70/EP 70	PM/PM ₁₀ / PM _{2.5} /Opacity (EU 70, 71 & PI-25)	CAM Plan	5.B.13	33.1-15-14-06.10
Bean/bean powder conveying/storage/ packaging EU 77/EP 70	PM/Opacity (EU PI-22, PI-23 & PI-24)	O&M Plan/VEO	5.B.4)a & 5.B.5	33.1-15-14-06.5.a(3)(a)
Isolate valve packer receiver EU PI-22/E P70	PM ₁₀ /PM _{2.5}	Recordkeeping	5.B.15	ACP-17820 v1.1, 40 CFR 52.21(r)(6)(iii) & (v) & 33.1-15-15.01.2
Isolate super sacker receiver EU PI-23/EP 70				
Isolate valve packer aspiration EU PI-24/EP 70				
Pea hull loadout aspiration EU PI-25/EP 70				

Emission Unit Description EU/EP	Pollutant/ Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Raw legume transport EU PI-03/EP PI-03 Raw legume screening EU PI-04/EP PI-03 Raw legume split conditioner EU PI-05/EP PI-03 Legume split flaking EU PI-06/EP PI-03 Hulls separation aspiration EU PI-07A/EP PI-03	PM/Opacity	O&M Plan/VEO	5.B.4)a & 5.B.5	33.1-15-14-06.5.a(3)(a)
Hulls grinder blowline EU PI-07B/EP PI-03	PM/Opacity	CAM Plan	5.B.13	33.1-15-14-06.10
Starch pack tanks #1 & #2 EU PI-14/EP PI-14 & EU PI-15/EP PI-15	PM/Opacity	O&M Plan	5.B.4)a	33.1-15-14-06.5.a(3)(a)
Isolate sizing EU PI-17/EP PI-17	PM/Opacity	CAM Plan	5.B.13	33.1-15-14-06.5.a(3)(a)
Isolate pack tanks #1, #2, #3 & #4 EU PI-18/EP PI-18, EU PI-19/EP PI-19, EU PI-20/EP PI-20 & EU PI-21/EP PI-21	PM/Opacity	O&M Plan	5.B.4)a	33.1-15-14-06.5.a(3)(a)
WWTP anaerobic reactor/caustic scrubber/biogas flare EU FR-01/EP FR-01 EU FR-02/EP FR-01	SO ₂ H ₂ S Opacity	Calculation Sampling/Testing O&M Plan/VEO	5.B.19 5.B.18 5.B.4)a & 5.B.5	ACP- 18183 v1.0 ACP-18183 v1.0 33.1-15-14-06.5.a(3)(a)

Emission Unit Description EU/EP	Pollutant/ Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Fuel Burning Equipment:				
JTA boiler EU 17/EP 17	Filterable PM (or TSM)	Emissions Test	5.B.7, 5.B.17	33.1-15-14-06.5.a(3)(a) & 33.1-15-22-03, Subpart 5D
	PM ₁₀	Emissions Test, CAM Plan	5.B.7, 5.B.13	33.1-15-14-06.10
	PM ₁₀ /PM _{2.5} & NO _x	Recordkeeping	5.B.15	ACP-17820 v1.1, 40 CFR 52.21(r)(6)(iii) & (v) & 33.1-15-15.01.2
	SO ₂	CEMS/CERMS	5.B.14	33.1-15-14-06.5.a(3)(a)
	NO _x	CEMS	5.B.14	33.1-15-14-06.5.a(3)(a)
	CO	O&M, Emissions Test	5.B.4)b, 5.B.17	33.1-15-14-06.5.a(3)(a) & 33.1-15-22-03, Subpart 5D
	Hg	Emissions Test	5.B.17	33.1-15-22-03, Subpart 5D
	HCl	Emissions Test	5.B.17	33.1-15-22-03, Subpart 5D
	Opacity	COMS	5.B.8	33.1-15-14-06.5.a(3)(a)
	Operating Load	Recordkeeping	5.B.11	33.1-15-14-06.5.a(3)(a)
Emergency diesel generator engine EU 33/EP 33	NO _x	Emissions Test, O&M	5.B.3, 5.B.4)b	33.1-15-14-06.5.a(3)(a)
	CO	Emissions Test, O&M	5.B.3, 5.B.4)b	33.1-15-14-06.5.a(3)(a)
	Opacity	Recordkeeping	5.B.1	33.1-15-14-06.5.a(3)(a)
	Operating Hours	Recordkeeping	5.B.6	33.1-15-22, Subpart 4Z
Newpoint NUK boiler EU 62/EP 62	SO ₂ (gas)	Recordkeeping	5.B.1	33.1-15-14-06.5.a(3)(a)
	SO ₂ (oil)	Sulfur Analysis	5.B.2	33.1-15-14-06.5.a(3)(a)
	Opacity	Recordkeeping	5.B.1	33.1-15-14-06.5.a(3)(a)
	Fuel Usage	Recordkeeping	5.B.12	33.1-15-14-06.5.a(3)(a) & 40 CFR 60 Subpart Dc

Emission Unit Description EU/EP	Pollutant/ Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Trane Murray boiler EU 64/EP 64	<u>Natural Gas/LPG:</u> SO ₂	Recordkeeping	5.B.1	33.1-15-14-06.5.a(3)(a)
	NO _x	Emission Test	5.B.3	33.1-15-14-06.5.a(3)(a)
	Opacity	Recordkeeping	5.B.1	33.1-15-14-06.5.a(3)(a)
	Fuel Usage	Recordkeeping	5.B.1	33.1-15-14-06.5.a(3)(a)
	Steam Flow	Recordkeeping	5.B.16	33.1-15-14-06.5.a(3)(a)
	<u>No. 2 Fuel Oil:</u> SO ₂	Sulfur Analysis	5.B.2	33.1-15-14-06.5.a(3)(a)
	NO _x	Emissions Test	5.B.3	33.1-15-14-06.5.a(3)(a)
	Opacity	Recordkeeping	5.B.1	33.1-15-14-06.5.a(3)(a)
	Fuel Usage	Recordkeeping	5.B.12	33.1-15-14-06.5.a(3)(a)
	Steam Flow	Recordkeeping	5.B.16	33.1-15-14-06.5.a(3)(a)
Caterpillar diesel generator engine EU 69/EP 69	NO _x	Emissions Test, O&M	5.B.3, 5.B.4)b	33.1-15-14-06.5.a(3)(a)
	CO	Emissions Test, O&M	5.B.3, 5.B.4)b	33.1-15-14-06.5.a(3)(a)
	Opacity	Recordkeeping	5.B.1	33.1-15-14-06.5.a(3)(a)
	Operating Hours	Recordkeeping	5.B.6	33.1-15-22, Subpart 4Z
Diesel fire pump #1 engine EU 81/E P81	Opacity	Recordkeeping	5.B.1	33.1-15-14-06.5.a(3)(a)
	Operating Hours	Recordkeeping	5.B.6	33.1-15-22, Subpart 4Z
Diesel fire pump #2 engine EU 82/EP 82	Opacity	Recordkeeping	5.B.1	33.1-15-14-06.5.a(3)(a)
	Operating Hours	Recordkeeping	5.B.6	33.1-15-22, Subpart 4Z
Starch flash dryer EU PI-09/EP PI-09	PM (filterable)/ Opacity	Recordkeeping	5.B.1	33.1-15-14-06.5.a(3)(a)
	PM/PM ₁₀ / Opacity	CAM Plan	5.B.13	33.1-15-14-06.10

Emission Unit Description EU/EP	Pollutant/ Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Isolate spray dryer System EU PI-16/ EP PI-16a & EP PI-16b	PM/Opacity	CAM Plan	5.B.13	33.1-15-14-06.10

B. Monitoring Conditions:

- 1) For purposes of compliance monitoring, burning of pipeline quality natural gas containing no more than 2 grains of sulfur per 100 standard cubic feet, LPG (commercial propane), gasoline, distillate oil containing no more than 0.0015% sulfur by weight shall be considered credible evidence of compliance with any applicable opacity and SO₂ emission limit. However, results from tests conducted in accordance with the test methods in 40 CFR 50, 51, 60, 61, or 75 will take precedence over the burning of the above fuels for evidence of compliance or noncompliance with any applicable opacity and SO₂ emission limit, in the event of enforcement action.
- 2) The sulfur content of the fuel used shall be analyzed with each shipment using ASTM or Department approved methods. The sulfur analysis for the fuel may be conducted by the permittee or by the source where the fuel is purchased.
- 3) Twice during the term of the permit, to provide a reasonable assurance of compliance, the permittee shall conduct an emissions test to measure NO_x and/or CO emissions, using EPA Reference Methods in 40 CFR 60, Appendix A or at a minimum a portable analyzer method approved by the Department. A test shall consist of three runs, with each run at least 20 minutes in length.

The first test shall be conducted within one year of issuance of the permit and the second test shall be conducted no sooner than two years and no later than three years of the first test.

For EU 33 and EU 69, an emissions test for NO_x and CO is only required if the emission unit operates more than is allowed by the applicable subpart (40 CFR 63, Subpart ZZZZ) to be defined as “emergency.” This requirement may be satisfied if recurring testing is otherwise performed in accordance with requirements under 40 CFR 63, Subpart ZZZZ. See Condition 1.B Footnote B and Condition 3.B.2.

- 4) a) The permittee shall maintain and operate air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. The manufacturer’s recommended operations and maintenance (O&M) procedures, or a site-specific O&M procedure (developed from the manufacturer’s recommended O&M procedure), shall be followed to assure proper operation and maintenance of the equipment. The permittee shall have the O&M plan available on-site and provide the Department with a copy when requested.

- b) The manufacturer's recommended operations and maintenance (O&M) procedures, or a site-specific O&M procedure (developed from the manufacturer's recommended O&M procedures), shall be followed to assure proper operation of the emission unit. The permittee shall have the O&M procedures available on-site and provide the Department with a copy when requested.
- 5) At least once per week in which the emission unit is operated, a company representative (need not be certified) shall observe the emission point. If no visible emissions are observed, the date and time shall be recorded.

If visible emissions are observed, the permittee must investigate the problem within eight hours. Any problems that are discovered must be corrected as soon as possible. If the correction of the emissions is expected to take longer than 24 hours, the permittee shall follow procedures as outlined in Condition 8.G. Following corrective maintenance, a visible emissions observation shall be made.

All investigations of malfunctions and visible emissions shall be recorded. The permittee shall comply with the visible emissions and particulate emission limits and nothing in this condition shall be construed as authorizing otherwise.

- 6) A log shall be kept of the total hours of operation on a calendar year basis for each of the engines. Records shall be maintained to differentiate annual emergency vs. non-emergency/maintenance/etc. hours of operation.
- 7) Within one year of issuance of a renewal permit, the permittee shall conduct an emissions test to measure PM/PM₁₀, using EPA Test Methods in 40 CFR 60, Appendix A. A test shall consist of three runs, with each run at least one hour in length. Other tests may be used provided they are approved in advance by the Department.

All emissions testing for the JTA boiler shall be conducted when the JTA boiler is combusting the highest percentage of railroad ties and clean wood that will be combusted in the boiler. The highest percentage of railroad ties and clean wood that may be combusted during normal operations is limited to the percentage of those wood items that were combusted during the most recent tests to develop data for a CAM plan. The amount of each fuel combusted during each emissions test shall be measured and the amounts shall be reported with the results of the emissions test.

Note: This requirement may be satisfied if recurring testing is otherwise performed in accordance with requirements under 40 CFR 63, Subparts 5D.

- 8) a) Monitoring shall be in accordance with the requirements of 40 CFR 60, Subpart A, Section 60.13, Monitoring Requirements and 40 CFR 60, Appendix F, Procedure 3 - Quality Assurance Procedures for Continuous Opacity Monitoring Systems at Stationary Sources as incorporated by reference into NDAC 33.1-15-12. The requirements of 40 CFR 60, Appendix F, Procedure 3 include daily calibration checks, quarterly performance audits and annual primary zero alignment under clear path conditions.

- b) The permittee shall conduct performance evaluations of the continuous opacity monitoring system with quarterly performance audits and annual zero alignments in accordance with 40 CFR 60 Appendix F, Procedure 3. For the performance evaluation, conformance with the specification for calibration error, Section 13.3 Field Audit Performance Specifications, Paragraph (2) Calibration Error of 40 CFR 60, Appendix B, Performance Specification 1 must be demonstrated. Quarterly assessments may be reduced in frequency to semi-annual with four consecutive quarters of quality-assured data (40 CFR 60 Appendix F, Procedure 3, Section 2.0)
 - c) The Department may require additional performance audits of the opacity monitor.
 - d) When a failure of the opacity monitor occurs, an alternative method acceptable to the Department for measuring or estimating the opacity must be undertaken as soon as possible. Timely repair of the emission monitoring system must be made.
- 9) The amount of oil seeds processed must be recorded daily.
 - 10) Best Management Practices (EU 08, EU 17 and EU 79): At all times, including periods of startup, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.
 - 11) Record the 30-day average operating load as it relates to 110 percent of the highest hourly average operating load recorded during the most recent performance test.
 - 12) Records shall be kept on a monthly basis for the amount of No. 2 fuel oil combusted in the Newpoint NUK boiler (EU 62) and Trane Murray boiler (EU 64).
 - 13) The permittee shall conduct the monitoring, recordkeeping and reporting as required by the applicable subparts of 40 CFR 64. Monitoring shall be conducted in accordance with the Compliance Assurance Monitoring (CAM) Plan in Attachment A of this permit. The measured indicator ranges for emission units subject to CAM are as follows:

Indicator Ranges			
Emission Unit Description	EU/EP	Control Equipment/ Pollutant Monitored	Indicator Ranges
Dehuller system	05/05	Cyclone/PM & Opacity	No visible emissions (Frequency: once per 24-hr period)
Dehuller system	06/06	Cyclone/PM & Opacity	No visible emissions (Frequency: once per 24-hr period)
Elevators & conveyors	08/08	Cyclone/PM & Opacity	No visible emissions (Frequency: once per 24-hr period)
JTA Boiler	17/17	ESP/PM & Opacity	≤34.15% opacity (38.0 lb/hr) (Frequency: Continuous)
Bean receiving/storage handling	70/ 70	Bagfilter/PM/PM ₁₀ / PM _{2.5} & Opacity	No visible emissions (Frequency: once per 24-hr period)
Ground product storage/packaging	77/ 70		

Indicator Ranges			
Emission Unit Description	EU/EP	Control Equipment/ Pollutant Monitored	Indicator Ranges
Pea hull loadout aspiration	PI-25/70		
Hulls grinder blowline	PI-07B/PI-03	Bagfilter/PM & Opacity	No visible emissions (Frequency: once per 24-hr period)
Starch flash dryer	PI-09/PI-09	Scrubber/PM/PM ₁₀ & Opacity	0% to 10% opacity (Frequency: once per 24-hr period)
Isolate spray dryer system	PI-16/PI-16a & PI-16b	Bagfilter/PM/Opacity	No visible emissions (Frequency: once per 24-hr period)
Isolate sizing	PI-17/PI-17	Bagfilter/PM/Opacity	No visible emissions (Frequency: once per 24-hr period)

- 14) The continuous emission monitoring systems (CEMS) and/or the continuous emission rate monitoring systems (CERMS) for nitrogen oxides and sulfur dioxide shall be used to determine compliance with the nitrogen oxides and sulfur dioxide emission limits applicable to the JTA Boiler. The CEMS and the CERMS for the boiler shall be certified in accordance with the applicable requirements of 40 CFR 60, Appendix B. A relative Accuracy Test Audit (RATA) shall be conducted annually on the nitrogen oxides CEMS and sulfur dioxide CEMS/CERMS in accordance with the Relative Accuracy Test procedure in 40 CFR, Appendix B, Performance Specification 2 and Performance Specification 6. The annual RATA may be conducted by either an independent testing firm or by an internal ADM testing group.
- 15) ~~Prevention of Significant Deterioration of Air Quality Emissions Monitoring, Reporting and Recordkeeping: The permittee shall comply with all applicable emissions monitoring, recordkeeping and reporting requirements of Special Condition II.D of the Air Pollution Control Permit to Construct No. ACP-17820 v1.1 and 40 CFR 52.21(r)(6)(iii) and (v) as incorporated by reference in NDAC 33.1-15-15-01.2. The emissions monitoring required by 40 CFR §52.21(r)(6)(iii) shall be conducted for a period of 5 years following resumption of regular operations after completion of the Legume Protein Isolate Project. PM₁₀ and PM_{2.5} emissions shall be recorded for the raw legume storage tank #1 (PI-01(EU 70)/EP 70), the hulls storage and loadout tank (PI-08(EU 77)/EP 70), the isolate valve packer receiver (EU PI-22/EP 70), the isolate super sacker receiver (EU PI-23/EP 70), the isolate valve packer aspiration (EU PI-24/EP 70), and the pea hulls loadout aspiration (EU PI-25/EP 70). For the JTA boiler (EU 17/EP 17) PM₁₀, PM_{2.5} and NO_x emissions shall be recorded.~~
- 16) The steam output of the Trane Murray (EU 64) boiler must be recorded using a steam flow monitor on a 1-hour average basis and must be recorded in units of pounds of steam per hour. In lieu of a steam flow monitor, a feed water flow monitor may be used as a measure of operating load and can be assumed to be equivalent to the steam flow in units of pounds of steam per hour.
- 17) Demonstrate continuous compliance with Boiler MACT (40 CFR 63, Subpart 5D) emission limitations, fuel specifications, monitoring and work practice standards in

accordance with NDAC 33.1-15-22-03, Subpart 5D. See Condition 4.B Footnote C and Condition 5.C.5.

- 18) Monitoring of Gas Generated by Emission Unit FR-01:
- a) When the caustic scrubber is being operated, at least once/week, the hydrogen sulfide concentration of the gas generated shall be measured (in percent hydrogen sulfide, by volume) and recorded. The gas shall be measured after exiting the caustic scrubber and prior to combustion in the biogas flare.
 - b) When the caustic scrubber is being operated, at least once/calendar quarter, the hydrogen sulfide concentration of the gas generated shall be measured (in ppm, by volume) and recorded. The gas shall be measured after exiting the caustic scrubber and prior to combustion in the biogas flare.
 - c) When the caustic scrubber is not being operated, at least once per calendar day, the hydrogen sulfide concentration of the gas generated shall be measured (in percent hydrogen sulfide, by volume) and recorded. The gas shall be measured after exiting Emission Unit FR-01(anaerobic reactor) and prior to combustion in the biogas flare.
- 19) Recordkeeping of SO₂ Emissions from Emission Unit FR-01 Biogas Flare (EP FR-01): By the 15th day of each month, the permittee shall calculate and record the sulfur dioxide emissions for the previous month and for the previous 12-month period (12-month rolling total) from Emission Unit FR-01 (EP FR-01) using the following equation:

$$\text{SO}_2 \text{ emissions} = (\text{GF}) \times (\% \text{H}_2\text{S}) \times (0.16 \text{ lb SO}_2/\text{ft}^3 \text{ gas}) \times (1 \text{ ton}/2,000 \text{ lb})$$

Where:

GF = total gas flared in standard cubic feet ^A during the previous 12 mos.

% H₂S = decimal fraction of H₂S in biogas by volume

^A Standard conditions are defined as 60° F and 14.7 psi.

- a) If the SO₂ emissions from Emission Unit FR-01 (EP FR-01) exceed 35.10 tons in any 12-month period, the Department shall be notified by the 25th day of the month in which the calculation was made.
- C. In addition to the monitoring outlined in Conditions 5.A and 5.B, monitoring shall be in accordance with the following requirements of the North Dakota Air Pollution Control Rules (NDAC) 33.1-15-12 and 33.1-15-22, as applicable.
- 1) NDAC 33.1-15-12-02 and 40 CFR 60, Subpart A, §60.13, Monitoring Requirements
 - 2) NDAC 33.1-15-12-02 and 40 CFR 60, Subpart Db, §60.47b and §60.48b, Emission Monitoring

- 3) NDAC 33.1-15-12-02 and 40 CFR 60, Subpart Dc, §60.46c and §60.47c, Emission Monitoring
- 4) NDAC 33.1-15-22-03 and 40 CFR 63, Subpart A, §63.8, Monitoring Requirements
- 5) NDAC 33.1-15-22-03 and 40 CFR 63, Subpart DDDDD, §63.7535 through §63.7541, Continuous Compliance Requirements

Applicable Requirements: NDAC 33.1-15-12 and NDAC 33.1-15-22

6. Recordkeeping Requirements:

A. The permittee shall maintain compliance monitoring records as outlined in the Monitoring Records table that include the following information.

- 1) The date, place (as defined in the permit) and time of sampling or measurement.
- 2) The date(s) testing was performed.
- 3) The company, entity, or person that performed the testing.
- 4) The testing techniques or methods used.
- 5) The results of such testing.
- 6) The operating conditions that existed at the time of sampling or measurement.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(3)(b)[1]

Monitoring Records

Emission Unit Description	EU/EP	Pollutant/ Parameter	Compliance Monitoring Record
Processing Equipment:			
Dehuller system	05/05	PM/Opacity	CAM Data
Dehuller system	06/06	PM/Opacity	CAM Data
Elevators and conveyors	08/08	PM/PM ₁₀ / Opacity	CAM Data
Meal/hull processing	11/ 11	PM/Opacity	O&M and VEO Data
Rotary seed conditioner	56/56	PM/Opacity	O&M and VEO Data
Expeller aspiration	58/ 58	PM/Opacity	O&M and VEO Data
Desolventizer-toaster-dryer-cooler (DTDC)	61/61	PM/Opacity	O&M and VEO Data
		n-Hexane/ Hexane	Cond. 3.B.1 & 3.D
Whole seed conditioner	63/63	PM/Opacity	O&M and VEO Data

Emission Unit Description	EU/EP	Pollutant/ Parameter	Compliance Monitoring Record
Main vent (hexane extraction)	67/67	n-Hexane/ Hexane	Cond. 3.B.1 & 3.D
All processing equipment	---	Oil seeds	Oil Seeds Processed Daily Data
Bean receiving/storage/ handling	70/70	PM/PM ₁₀ / PM _{2.5} /Opacity	CAM Data (EU 70, EU 71 & EU PI-25)
Bean/bean powder conveying/storage/ packaging, Isolate valve packer receiver, Isolate super sacker receiver, Isolate valve packer aspiration & Pea hull loadout aspiration	77/70 PI-22/70 PI-23/70 PI-24/70 & PI-25/70	PM/Opacity PM ₁₀ /PM _{2.5}	O&M and VEO Data (EU PI-22, EU PI-23 & EU PI-24) PSD Emissions Data
Raw legume transport, Raw legume screening, Legume split conditioner, Legume split flaking & Hulls separation aspiration	PI-03/PI-03 PI-04/PI-03 PI-05/PI-03 PI-06/PI-03 & PI-07A/PI-03	PM/Opacity	O&M and VEO Data
Hulls grinder blowline	PI-07B/PI-03	PM/Opacity	CAM Data
Starch pack tank #1 Starch pack tank #2, Isolate pack tank #1, Isolate pack tank #2, Isolate pack tank #3 Isolate pack tank #4	PI-14/PI-14, PI-15/PI-15, PI-18/PI-18, PI-19/PI-19, PI-20/PI-20, PI-21/PI-21	PM/Opacity	O&M Data
Isolate sizing	PI-17/PI-17	PM/Opacity	CAM Data
WWTP anaerobic reactor/caustic scrubber/biogas flare	FR-01/FR-01 FR-02/FR-01	SO ₂ H ₂ S Opacity	Emission Calculation Data Sampling/Testing Data O&M & VEO Data

Emission Unit Description	EU/EP	Pollutant/ Parameter	Compliance Monitoring Record
Fuel Burning Equipment:			
JTA boiler	17/17	Filterable PM (or TSM)	Emissions Test Data
		PM ₁₀	Emissions Test Data, CAM Data
		PM ₁₀ / PM _{2.5} & NO _x	PSD Emissions Data
		SO ₂	CEMS/CERMS Data
		NO _x	CEMS Data
		CO	Emissions Test Data, O&M Data
		Hg	Emissions Test Data
		HCl	Emissions Test Data
		Opacity	COMS Data
		Operating Load	Operating Load Data
Emergency diesel generator engine	33/33	NO _x	Emissions Test Data, O&M Data
		CO	Emissions Test Data, O&M Data
		Opacity	Type of Fuel Usage Data
		Operating Hours	Hours of Operation Data
Newpoint NUK boiler	62/62	SO ₂	Type & Amount of Fuel Usage/ Fuel Oil Analysis Data
		Opacity	Type of Fuel Usage Data
Trane Murray boiler	64/64	SO ₂	Type & Amount of Fuel Usage/ Fuel Oil Analysis Data
		NO _x	Emissions Test Data
		Opacity	Type of Fuel Usage Data
		Steam Flow	Steam Flow Records Data

Emission Unit Description	EU/EP	Pollutant/ Parameter	Compliance Monitoring Record
Caterpillar diesel generator engine	69/69	NO _x	Emissions Test Data, O&M Data
		CO	Emissions Test Data, O&M Data
		Opacity	Type of Fuel Usage Data
		Operating Hours	Hours of Operation Data
Diesel fire pump #1 engine	81/81	Opacity	Type of Fuel Usage Data
		Operating Hours	Hours of Operation Data
Diesel fire pump #2 engine	82/82	Opacity	Type of Fuel Usage Data
		Operating Hours	Hours of Operation Data
Starch flash dryer	PI-09/PI-09	PM(filterable)/ Opacity	Type of Fuel Usage Data
		PM/PM ₁₀ / Opacity	CAM Data
Isolate spray dryer system	PI-16/PI-16a & PI-16b	PM/Opacity	CAM Data

B. In addition to requirements outlined in Condition 6.A., recordkeeping shall be in accordance with the following requirements of NDAC 33.1-15-12, 33.1-15-14-06.10 and 33.1-15-22, as applicable.

- 1) NDAC 33.1-15-12-02 and 40 CFR 60, Subpart A, §60.7, Notification and Recordkeeping
- 2) NDAC 33.1-15-12-02 and 40 CFR 60, Subpart Db, §60.49b, Reporting and Recordkeeping Requirements
- 3) NDAC 33.1-15-12-02 and 40 CFR 60, Subpart Dc, §60.48c, Reporting and Recordkeeping Requirements
- 4) NDAC 33.1-15-14-06.10 and 40 CFR 64, §64.9(b), Reporting and Recordkeeping Requirements, General Recordkeeping Requirements
- 5) NDAC 33.1-15-22-03 and 40 CFR 63, Subpart A, §63.10, Notification, Reports and Records
- 6) NDAC 33.1-15-22-03 and 40 CFR 63, Subpart GGGG, §63.2862 and §63.2863, Notifications, Reports and Records

- 7) NDAC 33.1-15-22-03 and 40 CFR 63, Subpart DDDDD, §63.7555 and §63.7560, Notifications, Reports and Records

Applicable Requirements: NDAC 33.1-15-12, NDAC 33.1-15-14-06.10 and NDAC 33.1-15-22

- C. The permittee shall retain records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings/computer printouts of continuous monitoring instrumentation, and copies of all reports required by the permit.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(3)(b)[2]

7. Reporting:

- A. Reporting shall be in accordance with the following requirements of NDAC 33.1-15-12, 33.1-15-14-06.10 and 33.1-15-22, as applicable.

- 1) NDAC 33.1-15-12-02 and 40 CFR 60, Subpart A, §60.7, Notification and Recordkeeping
- 2) NDAC 33.1-15-12-02 and 40 CFR 60, Subpart Db, §60.49b, Reporting and Recordkeeping Requirements
- 3) NDAC 33.1-15-12-02 and 40 CFR 60, Subpart Dc, §60.48c, Reporting and Recordkeeping Requirements
- 4) NDAC 33.1-15-14-06.10 and 40 CFR 64, §64.9(a), Reporting and Recordkeeping Requirements, General Reporting Requirements
- 5) NDAC 33.1-15-22-03 and 40 CFR 63, Subpart A, §63.10, Notification, Reports and Records
- 6) NDAC 33.1-15-22-03 and 40 CFR 63, Subpart GGGG, §63.2862 and §63.2863, Notifications, Reports and Records
- 7) NDAC 33.1-15-22-03 and 40 CFR 63, Subpart DDDDD, §63.7555 and §63.7560, Notifications, Reports and Records

Applicable Requirements: NDAC 33.1-15-12, NDAC 33.1-15-14-06.10 and NDAC 33.1-15-22

- B. The permittee shall submit a quarterly excess emissions report for the JTA boiler by the 30th day following the end of the calendar quarter for the following: opacity, nitrogen oxides and sulfur dioxide.

Applicable Requirement: NDAC 33.1-15-14-06.5a(3)(a)

- C. The permittee shall submit a semi-annual monitoring report for all monitoring records required under Condition 6 in a format provided or approved by the Department. All instances of deviations

from the permit must be identified in the report. A monitoring report shall be submitted within 45 days after June 30 and December 31 of each year. Include semi-annual reporting required by NDAC 33.1-15-22-03, Subpart 5D in this report (§63.7550).

Applicable Requirements: NDAC 33.1-15-14-06.5.a(3)(c)[1] and [2] and NDAC 33.1-15-22-03, Subpart 5D

- D. The permittee shall submit an annual compliance certification report in accordance with NDAC 33.1-15-14-06.5.c(5) within 45 days after December 31 of each year in a format provided or approved by the Department.

Applicable Requirement: NDAC 33.1-15-14-06.5.c(5)

- E. For emission units where the method of compliance monitoring is demonstrated by an EPA Test Method or a portable analyzer test, the test report shall be submitted to the Department within 60 days after completion of the test.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(6)(e)

- F. The permittee shall submit an annual emission inventory report (AEIR) in a format provided or approved by the Department. This report shall be submitted by March 15 of each year. Insignificant units/activities listed in this permit do not need to be included in the report.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(7) and NDAC 33.1-15-23-04

8. Facility Wide Operating Conditions:

A. Ambient Air Quality Standards:

- 1) Particulate and gases. The permittee shall not emit air contaminants in such a manner or amount that would violate the standards of ambient air quality listed in Table 1 of NDAC 33.1-15-02, external to buildings, to which the general public has access.
- 2) Radioactive substances. The permittee shall not release into the ambient air any radioactive substances exceeding the concentrations specified in NDAC 33.1-10.
- 3) Other air contaminants. The permittee shall not emit any other air contaminants in concentrations that would be injurious to human health or well-being or unreasonably interfere with the enjoyment of property or that would injure plant or animal life.
- 4) Disclaimer. Nothing in any other part or section of this permit may in any manner be construed as authorizing or legalizing the emission of air contaminants in such manner that would violate the standards in Paragraphs 1), 2) and 3) of this condition.

Applicable Requirements: NDAC 33.1-15-02-04 and 40 CFR 50.1(e)

- B. **Fugitive Emissions:** The release of fugitive emissions shall comply with the applicable requirements in NDAC 33.1-15-17.

Applicable Requirement: NDAC 33.1-15-17

- C. **Open Burning:** The permittee may not cause, conduct, or permit open burning of refuse, trade waste, or other combustible material, except as provided for in Section 33.1-15-04-02 and may not conduct, cause, or permit the conduct of a salvage operation by open burning. Any permissible open burning under NDAC 33.1-15-04-02 must comply with the requirements of that section.

Applicable Requirement: NDAC 33.1-15-04

- D. **Asbestos Renovation or Demolition:** Any asbestos renovation or demolition at the facility shall comply with emission standard for asbestos in NDAC 33.1-15-13.

Applicable Requirement: NDAC 33.1-15-13-02

- E. **Requirements for Organic Compounds Gas Disposal:**

- 1) Any organic compounds, gases and vapors which are generated as wastes as the result of storage, refining or processing operations and which contain hydrogen sulfide shall be incinerated, flared or treated in an equally effective manner before being released into the ambient air.
- 2) Each flare must be equipped and operated with an automatic ignitor or a continuous burning pilot.

Applicable Requirement: NDAC 33.1-15-07-02

- F. **Rotating Pumps and Compressors:** All rotating pumps and compressors handling volatile organic compounds must be equipped and operated with properly maintained seals designed for their specific product service and operating conditions.

Applicable Requirement: NDAC 33.1-15-07-01.5

- G. **Shutdowns/Malfunction/Continuous Emission Monitoring System Failure:**

- 1) **Maintenance Shutdowns.** In the case of shutdown of air pollution control equipment for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Department at least 24 hours prior to the planned shutdown provided that the air contaminating source will be operated while the control equipment is not in service. Such prior notice shall include the following:
 - a) Identification of the specific facility to be taken out of service as well as its location and permit number.
 - b) The expected length of time that the air pollution control equipment will be out of service.

- c) The nature and estimated quantity of emissions of air pollutants likely to be emitted during the shutdown period.
- d) Measures, such as the use of off-shift labor and equipment, that will be taken to minimize the length of the shutdown period.
- e) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.
- f) Nothing in this subsection shall in any manner be construed as authorizing or legalizing the emission of air contaminants in excess of the rate allowed by this article or a permit issued pursuant to this article.

Applicable Requirement: NDAC 33.1-15-01-13.1

2) Malfunctions.

- a) When a malfunction in any installation occurs that can be expected to last longer than 24 hours and cause the emission of air contaminants in violation of this article or other applicable rules and regulations, the person responsible for such installation shall notify the Department of such malfunction as soon as possible during normal working hours. The notification must contain a statement giving all pertinent facts, including the estimated duration of the breakdown. The Department shall be notified when the condition causing the malfunction has been corrected.
- b) Immediate notification to the Department is required for any malfunction that would threaten health or welfare or pose an imminent danger. During normal working hours the Department can be contacted at 701-328-5188. After hours the Department can be contacted through the 24-hour state radio emergency number 1-800-472-2121. If calling from out of state, the 24-hour number is 701-328-9921.
- c) Unavoidable Malfunction. The owner or operator of a source who believes any excess emissions resulted from an unavoidable malfunction shall submit a written report to the Department which includes evidence that:
 - [1] The excess emissions were caused by a sudden, unavoidable breakdown of technology that was beyond the reasonable control of the owner or operator.
 - [2] The excess emissions could not have been avoided by better operation and maintenance, did not stem from an activity or event that could have been foreseen and avoided, or planned for.
 - [3] To the extent practicable, the source maintained and operated the air pollution control equipment and process equipment in a manner consistent with good practice for minimizing emissions, including minimizing any bypass emissions.

- [4] Any necessary repairs were made as quickly as practicable, using off-shift labor and overtime as needed and possible.
- [5] All practicable steps were taken to minimize the potential impact of the excess emissions on ambient air quality.
- [6] The excess emissions are not part of a recurring pattern that may have been caused by inadequate operation or maintenance, or inadequate design of the malfunctioning equipment.

The report shall be submitted within 30 days of the end of the calendar quarter in which the malfunction occurred or within 30 days of a written request by the Department, whichever is sooner.

The burden of proof is on the owner or operator of the source to provide sufficient information to demonstrate that an unavoidable equipment malfunction occurred. The Department may elect not to pursue enforcement action after considering whether excess emissions resulted from an unavoidable equipment malfunction. The Department will evaluate, on a case-by-case basis, the information submitted by the owner or operator to determine whether to pursue enforcement action.

Applicable Requirement: NDAC 33.1-15-01-13.2

- 3) Continuous Emission Monitoring System Failures. When a failure of a continuous emission monitoring system occurs, an alternative method for measuring or estimating emissions must be undertaken as soon as possible. The owner or operator of a source that uses an alternative method shall have the burden of demonstrating that the method is accurate. Timely repair of the emission monitoring system must be made. The provisions of this subsection do not apply to sources that are subject to monitoring requirements in Chapter 33.1-15-21 (40 CFR 75, Acid Rain Program).

Applicable Requirement: NDAC 33.1-15-01-13.3

- H. **Air Pollution from Internal Combustion Engines:** The permittee shall comply with all applicable requirements of NDAC 33.1-15-08-01 – Internal Combustion Engine Emissions Restricted.

Applicable Requirement: NDAC 33.1-15-08-01

- I. **Prohibition of Air Pollution:**

- 1) The permittee shall not permit or cause air pollution, as defined in NDAC 33.1-15-01-04.
- 2) Nothing in any other part of this permit or any other regulation relating to air pollution shall in any manner be construed as authorizing or legalizing the creation or maintenance of air pollution.

Applicable Requirement: NDAC 33.1-15-01-15

J. Performance Tests:

- 1) The Department may reasonably require the permittee to make or have made tests, at a reasonable time or interval, to determine the emission of air contaminants from any source, for the purpose of determining whether the permittee is in violation of any standard or to satisfy other requirements of NDCC 23.1-06. All tests shall be made, and the results calculated in accordance with test procedures approved or specified by the Department including the North Dakota Department of Environmental Quality Emission Testing Guideline. All tests shall be conducted by reputable, qualified personnel. The Department shall be given a copy of the test results in writing and signed by the person responsible for the tests.
- 2) The Department may conduct tests of emissions of air contaminants from any source. Upon request of the Department, the permittee shall provide necessary and adequate access into stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants.

Applicable Requirement: NDAC 33.1-15-01-12

- 3) Except for sources subject to 40 CFR 63, the permittee shall notify the Department by submitting a Proposed Test Plan, or its equivalent, at least 30 calendar days in advance of any tests of emissions of air contaminants required by the Department. The permittee shall notify the Department at least 60 calendar days in advance of any performance testing required under 40 CFR 63, unless otherwise specified by the subpart. If the permittee is unable to conduct the performance test on the scheduled date, the permittee shall notify the Department as soon as practicable when conditions warrant and shall coordinate a new test date with the Department.

Failure to give the proper notification may prevent the Department from observing the test. If the Department is unable to observe the test because of improper notification, the test results may be rejected.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(3)(a), NDAC 33.1-15-12-02 Subpart A (40 CFR 60.8), NDAC 33.1-15-13-01.2 Subpart A (40 CFR 61.13), NDAC 33.1-15-22-03 Subpart A (40 CFR 63.7)

- K. Pesticide Use and Disposal:** Any use of a pesticide or disposal of surplus pesticides and empty pesticide containers shall comply with the requirements in NDAC 33.1-15-10.

Applicable Requirements: NDAC 33.1-15-10-01 and NDAC 33.1-15-10-02

- L. Air Pollution Emergency Episodes:** When an air pollution emergency episode is declared by the Department, the permittee shall comply with the requirements in NDAC 33.1-15-11.

Applicable Requirements: NDAC 33.1-15-11-01 through NDAC 33.1-15-11-04

M. **Stratospheric Ozone Protection:** The permittee shall comply with any applicable standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for MVACs in Subpart B:

- 1) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to Section 82.156.
- 2) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to Section 82.158.
- 3) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to Section 82.161.
- 4) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to Section 82.156.

Applicable Requirement: 40 CFR 82

N. **Chemical Accident Prevention:** The permittee shall comply with all applicable requirements of Chemical Accident Prevention pursuant to 40 CFR 68. The permittee shall comply with the requirements of this part no later than the latest of the following dates:

- 1) Three years after the date on which a regulated substance is first listed under this part; or
- 2) The date on which a regulated substance is first present above a threshold quantity in a process.

Applicable Requirement: 40 CFR 68

O. **Air Pollution Control Equipment:** The permittee shall maintain and operate air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. The manufacturer's recommended Operations and Maintenance (O&M) procedures, or a site-specific O&M procedure developed from the manufacturer's recommended O&M procedures, shall be followed to assure proper operation and maintenance of the equipment. The permittee shall have the O&M procedures available onsite and provide the Department with a copy when requested.

Applicable Requirement: NDAC 33.1-15-14-06.5.b(1)

P. **Prevention of Significant Deterioration of Air Quality** (40 CFR 52.21 as incorporated by NDAC Chapter 33.1-15-15): If this facility is classified as a major stationary source under the Prevention of Significant Deterioration of Air Quality (PSD) rules, a Permit to Construct must be obtained from the Department for any project which meets the definition of a "major modification" under 40 CFR 52.21(b)(2).

If this facility is classified as a major stationary source under the PSD rules and the permittee elects to use the method specified in 40 CFR 52.21(b)(41)(ii)(a) through (c) for calculating the projected actual emissions of a proposed project, then the permittee shall comply with all applicable requirements of 40 CFR 52.21(r)(6).

Applicable Requirement: NDAC 33.1-15-15-01.2

9. **General Conditions:**

- A. **Annual Fee Payment:** The permittee shall pay an annual fee, for administering and monitoring compliance, which is determined by the actual annual emissions of regulated contaminants from the previous calendar year. The Department will send a notice, identifying the amount of the annual permit fee, to the permittee of each affected installation. The fee is due within 60 days following the date of such notice. Any source that qualifies as a “small business” may petition the Department to reduce or exempt any fee required under this section. Failure to pay the fee in a timely manner or submit a certification for exemption may cause this Department to initiate action to revoke the permit.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(7) and NDAC 33.1-15-23-04

- B. **Permit Renewal and Expiration:** This permit shall be effective from the date of its issuance for a fixed period of five years. The permittee’s right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least six months, but no more than 18 months, prior to the date of permit expiration. The Department shall approve or disapprove the renewal application within 60 days of receipt. Unless the Department requests additional information or otherwise notifies the applicant of incompleteness, the application shall be deemed complete. For timely and complete renewal applications for which the Department has failed to issue or deny the renewal permit before the expiration date of the previous permit, all terms and conditions of the permit, including any permit shield previously granted shall remain in effect until the renewal permit has been issued or denied. The application for renewal shall include the current permit number, description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.

Applicable Requirements: NDAC 33.1-15-14-06.4 and NDAC 33.1-15-14-06.6

- C. **Transfer of Ownership or Operation:** This permit may not be transferred except by procedures allowed in Chapter 33.1-15-14 and is to be returned to the Department upon the destruction or change of ownership of the source unit(s), or upon expiration, suspension or revocation of this permit. A change in ownership or operational control of a source is treated as an administrative permit amendment if no other change in the permit is necessary and 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 Department.

Applicable Requirement: NDAC 33.1-15-14-06.6.d

- D. **Property Rights:** This permit does not convey any property rights of any sort, or any exclusive privilege.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(6)(d)

E. **Submissions:**

- 1) Reports, test data, monitoring data, notifications, and requests for renewal shall be submitted to the Department using a format provided or approved by the Department. Physical submittals shall be submitted to:

North Dakota Department of Environmental Quality
Division of Air Quality
4201 Normandy Street, 2nd Floor
Bismarck, ND 58503-1324

- 2) Any application form, report or compliance certification submitted shall be certified as being true, accurate, and complete by a responsible official.

Applicable Requirement: NDAC 33.1-15-14-06.4.d

- F. **Right of Entry:** Any duly authorized officer, employee or agent of the North Dakota Department of Environmental Quality may enter and inspect any property, premise or place listed on this permit or where records are kept concerning this permit at any reasonable time for the purpose of ascertaining the state of compliance with this permit and the North Dakota Air Pollution Control Rules. The Department may conduct tests and take samples of air contaminants, fuel, processing material, and other materials which affect or may affect emissions of air contaminants from any source. The Department shall have the right to access and copy any records required by the Department's rules and to inspect monitoring equipment located on the premises.

Applicable Requirements: NDAC 33.1-15-14-06.5.c(2) and NDAC 33.1-15-01-06

- G. **Compliance:** The permittee must comply with all conditions of this permit. Any noncompliance with a federally-enforceable permit condition constitutes a violation of the Federal Clean Air Act. Any noncompliance with any State enforceable condition of this permit constitutes a violation of NDCC Chapter 23.1-06 and NDAC 33.1-15. Violation of any condition of this permit is grounds for enforcement action, for permit termination, revocation and reissuance or modification, or for denial of a permit renewal application. Noncompliance may also be grounds for assessment of penalties under the NDCC 23.1-06. 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 this permit.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(6)(a) and NDAC 33.1-15-14-06.5.a(6)(b)

- H. **Duty to Provide Information:** The permittee shall furnish to the Department, within a reasonable time, any information that the Department 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. This includes instances where an alteration, repair, expansion, or change in method of operation of the source occurs. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such recourse directly to the Department along with a claim of confidentiality. The permittee, upon becoming aware that any relevant facts were omitted, or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. Items that warrant

supplemental information submittal include, but are not limited to, changes in the ambient air boundary and changes in parameters associated with emission points (i.e., stack parameters). The permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(6)(e), NDAC 33.1-15-14-06.6.b(3) and NDAC 33.1-15-14-06.4.b

I. **Reopening for Cause:** The Department will reopen and revise this permit as necessary to remedy deficiencies in the following circumstances:

- 1) Additional applicable requirements under the Federal Clean Air Act become applicable to the permittee with a remaining permit term of three or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the expiration date of this permit.
- 2) The Department or the United States Environmental Protection Agency determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- 3) The Department or the United States Environmental Protection Agency determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- 4) Reopenings shall not be initiated before a notice of intent to reopen is provided to the permittee by the Department at least 30 days in advance of the date that this permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency. Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

Applicable Requirement: NDAC 33.1-15-14-06.6.f

J. **Permit Changes:** The 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.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(6)(c)

K. **Off-Permit Changes:** A permit revision is not required for changes that are not addressed or prohibited by this permit, provided the following conditions are met:

- 1) No such change may violate any term or condition of this permit.
- 2) Each change must comply with all applicable requirements.

- 3) Changes under this provision may not include changes or activities subject to any requirement under Title IV or that are modifications under any provision of Title I of the Federal Clean Air Act.
- 4) A Permit to Construct under NDAC 33.1-15-14-02 has been issued, if required.
- 5) Before the permit change is made, the permittee must provide written notice to both the Department and Air Program (8P-AR), Office of Partnerships & Regulatory Assistance, US EPA Region 8, 1595 Wynkoop Street, Denver, CO 80202-1129, except for changes that qualify as insignificant activities in Section 33.1-15-14-06. This notice shall describe each change, the date of the change, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result.
- 6) The permittee shall record all changes that result in emissions of any regulated air pollutant subject to any applicable requirement not otherwise regulated under this permit, and the emissions resulting from those changes. The record shall reside at the permittee's facility.

Applicable Requirement: NDAC 33.1-15-14-06.6.b(3)

L. **Administrative Permit Amendments:** This permit may be revised through an administrative permit amendment, if the revision to this permit accomplishes one of the following:

- 1) Corrects typographical errors.
- 2) Identifies a change in the name, address or phone number of any person identified in this permit or provides a similar minor administrative change at the source.
- 3) Requires more frequent monitoring or reporting by the permittee.
- 4) Allows for a change in ownership or operational control of the source where the Department 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 Department.
- 5) Incorporates into the Title V permit the requirements from a Permit to Construct when the review was substantially equivalent to Title V requirements for permit issuance, renewal, reopenings, revisions and permit review by the United States Environmental Protection Agency and affected state review, that would be applicable to the change if it were subject to review as a permit modification and compliance requirements substantially equivalent to Title V requirements for permit content were contained in the Permit to Construct.
- 6) Incorporates any other type of change which the Administrator of the United States Environmental Protection Agency has approved as being an administrative permit amendment as part of the Department's approved Title V operating permit program.

Applicable Requirement: NDAC 33.1-15-14-06.6.d

M. **Minor Permit Modification:** This permit may be revised by a minor permit modification, if the proposed permit modification meets the following requirements:

- 1) Does not violate any applicable requirement.
- 2) Does not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in this permit.
- 3) Does not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis.
- 4) Does 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 to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include a federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I of the Federal Clean Air Act; and alternative emissions limit approved pursuant to regulations promulgated under Section 112(i)(5) of the Federal Clean Air Act.
- 5) Is not a modification under NDAC 33.1-15-12, 33.1-15-13, and 33.1-15-15 or any provision of Title I of the Federal Clean Air Act.
- 6) Is not required to be processed as a significant modification.

Applicable Requirement: NDAC 33.1-15-14-06.6.e(1)

N. Significant Modifications:

- 1) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments. Every significant change in existing monitoring permit terms or conditions and every relaxation of reporting or recordkeeping permit terms or conditions shall be considered significant. Nothing therein shall be construed to preclude the permittee from making changes consistent with this subsection that would render existing permit compliance terms and conditions irrelevant.
- 2) Significant permit modifications shall meet all Title V requirements, including those for applications, public participation, review by affected states, and review by the United States Environmental Protection Agency, as they apply to permit issuance and permit renewal. The Department shall complete review of significant permit modifications within nine months after receipt of a complete application.

Applicable Requirement: NDAC 33.1-15-14-06.6.e(3)

- O. Operational Flexibility:** The permittee is allowed to make a limited class of changes within the permitted facility that contravene the specific terms of this permit without applying for a permit revision, provided the changes do not exceed the emissions allowable under this permit, are not Title I modifications and a Permit to Construct is not required. This class of changes does not include changes that would violate applicable requirements; or changes to federally-enforceable permit terms or conditions that are monitoring, recordkeeping, reporting, or compliance certification requirements.

The permittee is required to send a notice to both the Department and Air Program (8P-AR), Office of Partnerships & Regulatory Assistance, US EPA Region 8, 1595 Wynkoop Street, Denver, CO 80202-1129, at least seven days in advance of any change made under this provision. The notice must describe the change, when it will occur and any change in emissions, and identify any permit terms or conditions made inapplicable as a result of the change. The permittee shall attach each notice to its copy of this permit. Any permit shield provided in this permit does not apply to changes made under this provision.

Applicable Requirement: NDAC 33.1-15-14-06.6.b(2)

P. **Relationship to Other Requirements:** Nothing in this permit shall alter or affect the following:

- 1) The provisions of Section 303 of the Federal Clean Air Act (emergency orders), including the authority of the administrator of the United States Environmental Protection Agency under that section.
- 2) 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.
- 3) The ability of the United States Environmental Protection Agency to obtain information from a source pursuant to Section 114 of the Federal Clean Air Act.
- 4) Nothing in this permit shall relieve the permittee of the requirement to obtain a Permit to Construct.

Applicable Requirements: NDAC 33.1-15-14-06.3 and NDAC 33.1-15-14-06.5.f(3)(a), (b) and (d)

Q. **Severability Clause:** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. Applicable Requirement: NDAC 33.1-15-14-06.5.a(5)

R. **Circumvention:** The permittee shall not cause or permit the installation or use of any device of any means which conceals or dilutes an emission of air contaminants which would otherwise violate this permit.

Applicable Requirement: NDAC 33.1-15-01-08

10. **State Enforceable Only Conditions (not Federally enforceable):**

A. **General Odor Restriction:** The permittee shall not discharge into the ambient air any objectionable odorous air contaminant which exceeds the limits established in NDAC 33.1-15-16.

Applicable Requirement: NDAC 33.1-15-16

Attachment A

Compliance Assurance Monitoring (CAM) Plan
for
ADM Co., Enderlin Facility
Title V Permit No. AOP-28378

<u>EU</u>	<u>EP</u>	<u>Control Equipment</u>	<u>Pollutant Monitored</u>
05	05	Cyclone	Particulate/Opacity
06	06	Cyclone	Particulate/Opacity
08	08	Cyclone	Particulate/Opacity
17	17	ESP	Particulate/Opacity
70	70	Bagfilter	Particulate/Opacity
77	70	Bagfilter	Particulate/Opacity
PI-25	70	Bagfilter	Particulate/Opacity
PI-07B	PI-03	Bagfilter	Particulate/Opacity
PI-09	PI-09	Wet Scrubber	Particulate/Opacity
PI-16	PI-16a/PI-16b	Bagfilter	Particulate/Opacity
PI-17	PI-17	Bagfilter	Particulate/Opacity

Monitoring Approach Submittal

Monitoring Approach: Cyclones (EP 05, EP 06, EP 08)

Justification

Rationale for Selection of Performance Indicators

Visible Emissions (opacity) was selected as a performance indicator because it is indicative of good operation and maintenance of the cyclone. When the cyclone is operating optimally, there will be little visible emissions from the exhaust. In general, an increase in visible emissions indicates reduced performance of the cyclone.

Implementation of a cyclone operating and maintenance (O&M) program provides assurance that the cyclone is in good repair and operating properly.

Rationale for Selection of Indicator Ranges

The indicator range for opacity is visible emissions or no visible emissions. The permit limits the opacity to less than 20% (maximum of 40% for not more than one 6-minute period/hr). This indicator range was selected based on the facility's permit requirements.

	<i>Indicator No. 1</i>	<i>Indicator No. 2</i>
Indicator	Visible Emissions	Operation/ Maintenance
Measurement Approach	Visible emission observations performed daily.	Visible inspection of cyclone and its components. Maintenance is performed on an as needed basis.
Indicator Range	The indicator range is visible emissions or no visible emissions.	N/A
Data Representativeness	Observations are performed at the cyclone exhaust while the system is operating.	Visible external inspections of the cyclone are performed while the system is operating. Servicing of the unit is performed while the unit is not operating.
Verification of Operational Status	N/A	N/A
QA/QC Practices and Criteria	Observer is familiar with facility and equipment monitored.	Qualified persons perform inspections.
Monitoring Frequency	Daily	Visible external inspections of the cyclone are performed daily. Servicing of the unit and components is performed as needed or during shutdown periods.
Data Collection Procedures	Observers logs whether visible emissions were present and corrective actions taken into operators log. A summary report of daily observations is kept on file. When VE noticed method 9 is conducted by certified observer and completed visual emission form is kept on file.	Work orders are generated and maintenance activities are recorded and kept on file.

Monitoring Approach – Electrostatic Precipitator (EP 17)

Justification

Rationale for Selection of Performance Indicators

Opacity was selected as a performance indicator because there is a correlation between opacity and particulate matter emissions. As opacity increases particulate matter emitted increases.

Rationale for Selection of Indicator Ranges

This indicator range was based on compliance testing that established the correlation to the facility's permit requirement. In order to allow for a margin of compliance the demonstrated opacity level was determined at 90% of the PM10 emissions limit. The demonstrated opacity level will be:

34.15 % when combusting any fuel. This indicator level corresponds to a PM10 emission rate of 34.2 lb/hr.
The PM10 emission limit is 38.0 lb/hr.

Correlation of Opacity and Particulate Emissions

The table below provides a summary of the results of testing conducted August 30-31, 2011 on this source. The following equation was developed from this data:

$$\text{Particulate Emissions (lb/hr)} = 0.0004(\text{Op})^3 - 0.0002(\text{Op})^2 + 0.5408(\text{Op}); \text{ where (Op) = Opacity (6-minute averages in \%); } R^2 = 0.9975$$

Summary of Test Results – JTA Boiler					
Test #	Sampling Method	Avg. 6-Min Opacity (%)	PM Emission Rate (lb/hr)	PM Emission Rate (lb/mmbtu)	
Low Opacity (6.4% Avg.)					
1	EPA M5	6.83	7.68	0.0411	
2	EPA M5	6.07	3.54	0.0200	
3	EPA M5	6.29	3.05	0.0161	
Average		6.40	4.76	0.0257	
Mid Opacity (43% Avg.)					
4	EPA M5	40.01	52.35	0.2844	
5	EPA M5	42.96	48.43	0.2581	
6	EPA M5	46.03	59.70	0.3073	
Average		43.00	53.49	0.2833	
High Opacity (76.3% Avg.)					
7	EPA M5	80.43	241.29	1.3001	
8	EPA M5	75.45	216.60	1.1331	
9	EPA M5	73.07	193.50	1.0079	
Average		76.32	217.13	1.1470	

Indicator	Opacity of ESP Exhaust.
Measurement Approach	COMS in ESP exhaust.
Indicator Range	An excursion is defined as a measured stack opacity greater than the demonstrated opacity level, based on a 3-hour rolling average. Corrective action must be initiated when measure stack opacity is greater than the demonstrated opacity level, based on a 1-hour rolling average. The demonstrated opacity level has at least a 10 percent margin of compliance with the existing PM10 limit. This opacity level will serve as the trigger point for actions/notifications.
Data Representativeness	COMS installed according to 40 CFR 60, Appendix B, Performance Specification 1 (P5-I). As opacity increases, it can be assumed that particulate emissions increase.
Verification of Operational Status	Results of COMS performance evaluation conducted per P5-1.
QA/QC Practices and Criteria	The COMS was initially installed and evaluated per P5-1. Zero span and drift are checked daily and a semi-annual filter audit is performed.
Monitoring Frequency	Monitor the opacity of the ESP exhaust continuously. (polled every 10 seconds.)
Data Collection Procedures	The DAHS retains 6-minute, 1-hour, and 3-hour averages.
Averaging Period	3-hour rolling average for on excursion. 1-hour average for corrective action. 6-minute averages for Title V opacity compliance.

Monitoring Approach Submittal

Monitoring Approach: Bagfilter (EP 70, PI-03, PI 16a/PI-16b, PI-17)

Justification

Rationale for Selection of Performance Indicators

Visible Emissions (opacity) was selected as a performance indicator because it is indicative of good operation and maintenance for the g. When the bagfilter is operating optimally, there will be little visible emissions from the exhaust. In general, an increase in visible emissions indicates reduced performance of the bagfilter.

Implementation of a bagfilter operating and maintenance (O&M) program provides assurance that the bagfilter is in good repair and operating properly.

Rationale for Selection of Indicator Ranges

The indicator range for opacity is visible emissions or no visible emissions. The permit limits the opacity to less than 20% (maximum of 40% for not more than one 6-minute period/hr). This indicator range was selected based on the facility's permit requirements.

	<i>Indicator No. 1</i>	<i>Indicator No. 2</i>
Indicator	Visible Emissions	Operation/ Maintenance
Measurement Approach	Visible emission observations performed daily.	Visible inspection of bagfilter and its components. Maintenance is performed on an as needed basis.
Indicator Range	The indicator range is visible emissions or no visible emissions.	N/A
Data Representativeness	Observations are performed at the cyclone exhaust while the system is operating.	Visible external inspections of the bagfilter are performed while the system is operating. Servicing of the unit is performed while the unit is not operating.
Verification of Operational Status	N/A	N/A
QA/QC Practices and Criteria	Observer is familiar with facility and equipment monitored.	Qualified persons perform inspections.
Monitoring Frequency	Daily	Visible external inspections of the bagfilter are performed daily. Servicing of the unit and components is performed as needed or during shutdown periods.
Data Collection Procedures	Observers logs whether visible emissions were present and corrective actions taken into operators log. A summary report of daily observations is kept on file. When VE noticed method 9 is conducted by certified observer and completed visual emission form is kept on file.	Work orders are generated and maintenance activities are recorded and kept on file.

Monitoring Approach Submittal

Monitoring Approach: Wet Scrubber (PI-09)

Justification

Rationale for Selection of Performance Indicators

Visible Emissions (opacity) as a performance indicator because it is indicative of good operation and maintenance of the wet scrubber. When the wet scrubber is operating optimally, there will be little visible emissions from the exhaust. In general, an increase in visible emissions could indicate reduced performance of the wet scrubber.

Implementation of the wet scrubber (O&M) program provides assurance that the wet scrubber is in good repair and operating properly, including use of the lock out system that prevents operation of the emissions unit when the scrubber is not operating.

Rationale for Selection of Indicator Ranges

The indicator range for opacity is 0 to 10% (once per 24-hr period). The permit limits the opacity to less than 20% (maximum of 40% for not more than one 6-minute period/hr). This indicator range was selected based on the 5% seen during testing.

	<i>Indicator No. 1</i>	<i>Indicator No. 2</i>
Indicator	Visible Emissions	Visible inspection of scrubber with maintenance performed as recommended by the manufacturer.
Measurement Approach	Visible emission observations performed daily	N/A
Indicator Range	The indicator range is visible emissions or no visible emissions.	Visible external inspections performed while the system is operating. Servicing of the unit is performed while the units is not operating.
Data Representativeness	Observations are performed at the wet scrubber exhaust while the system is operating.	N/A
Verification of Operational Status	N/A	Lock out system in use to prevent operation of emission unit if scrubber is not operating.
QA/QC Practices and Criteria	Observer is familiar with facility and equipment monitored.	Servicing of the unit and components is performed as needed or during shutdown periods.
Monitoring Frequency	Daily	Work orders are generated, and maintenance activities are recorded and kept on file.

Attachment A
Potential-to-Emit Calculations
ADM Enderlin - Title V Renewal

Potential Emission Summary Table

Pollutant	Potential Hourly Emissions (lbs/hr)	Potential Annual Emissions Excluding Fugitives (tons/yr)	Potential Annual Emissions Including Fugitives (tons/yr)
PM (filterable)	26.26	66.24	101.23
PM ₁₀	55.32	204.57	228.51
PM _{2.5}	52.15	200.47	214.63
NO _x	146.46	335.84	335.84
CO	65.70	219.35	219.35
SO ₂	141.55	369.87	369.87
VOC	171.67	736.84	736.84
Greenhouse Gases	(lb/hr)	(tons/yr)	(tons/yr)
CO ₂		459,681.77	459,681.77
CH ₄		89.32	89.32
N ₂ O		11.66	11.66
Total GHGs (mass basis)		459,782.75	459,782.75
Total GHGs (CO ₂ e)		465,273.10	465,273.10
Total HAPs		50.91	50.91

Potential Process Particulate Emissions - Enderlin 2025

EU ID#	Source	Hours of Operations	AirFlow (DSCFM)	Potential Throughput (tons)	PM
EU05	Dehuller system	8760	N/A	95,183	0.244
EU06	Dehuller system	8760	N/A	95,183	0.244
EU08	Elevators, & conveyors	8760	N/A	583,124	0.720
EU11	Meal Pelletizing	8760	N/A	262,800	0.008
EU16	Small seed dryer	0	N/A	0	0.048
EU18	New Steel Hull Bin	0	N/A	0	0.001
EU19	Hull Receiving Pit	0	N/A	0	0.035
EU56	Rotary Seed Conditioner	8760	N/A	568,071	0.550
EU58	Expeller aspiration	8760	5000	730,000	0.006
EU61	Desolventizer-toaster-dryer-cooler (DTDC)	8760	N/A	583,124	0.010
EU63	Whole seed conditioner	8760	N/A	1,095,000	0.630
EU70 / EU77 (EP 70)	Bean receiving/storage/handling (EU 70)/Ground product storage/packaging (EU 77)	8760	40000	4,112	0.002
EU86 ^[1]	Bean flour mill	8760	3400	0	0.005
PI-03 - PI-07b	Raw legume transport, screening, split conditioner, split flacking, hull separation aspiration, and hull grinder blowline	8760	5400	0	0.010
Fugitives					
EU12 (Fug.)	Hammermills	8760	9200	305,406	0.001
EU15 (Fug.)	Large seed dryer	8760	N/A	1,314,000	0.048
EU51a (Fug.)	Whole seed truck loading spout	8760			
EU51b (Fug.)	Whole seed rail loading spout	8760			
EU60a (Fug.)	Rail meal unload pit	8760			
Insignificant Activities					
EU07	Hull storage tanks	8760	6000	20,342	0.025
EU22	West Building	8760	N/A	1,314,000	0.001
EU23	Dry seed tank vents (10)	8760	1000	54,886	0.001
EU25	Meal tanks	8760	3000	320,459	0.001
EU26	FM Tank - Transferring	8760	N/A	3,781	0.001
EU29	Day tank	8760	1000	583,124	0.001
EU30	Fly ash and bottom ash loadout	8760	25000	328,500	0.150
EU51	Seed Receiving	8760	32300	548,862	0.001
EU52	Seed Cleaning	8760	35400	548,862	0.001
EU53	Seed Storage	8760	14900	548,862	0.001
EU54	Filter aid receiving	8760	600	109,500	0.001
EU55	Bleaching clay receiving	8760	600	190,500	0.001

EU57	East Building	8760	N/A	1,314,000	0.001
EU59	Meal Loadout - Truck	8760	32000	876,000	0.001
EU60	Meal Loadout - Rail	8760	18000	1,752,000	0.001
EU65	Hull grinding	8760	4000	0	0.001
EU68	Dehulling area	8760	4000	551,880	0.001
EU71 ^[2]	Bean dryer	0	15000	0	0.500
EU72	Bean dehydrator	8760	25750	9,460	0.100
EU79	Wood/PC grain fuel receiving station	8760	10500	438,000	0.025
EU84	B335A raw flake conveyor vent fan	8760	1437	0	0.010
EU85	C101F L - path fan	8760	1437	0	0.010
PI-07C ^[3]	Hulls transport to storage	8760	40,000	4,112	
PI-14	Starch pack tank #1	8760	350	23,298	0.010
PI-15	Starch pack tank #2	8760	350	23,298	0.010
PI-17	Isolate sizing	8760	1200	6,140	0.100
PI-18	Isolate pack tank #1	8760	250	6,140	0.010
PI-19	Isolate pack tank #2	8760	250	6,140	0.010
PI-20	Isolate pack tank #3	8760	250	6,140	0.010
PI-21	Isolate pack tank #4	8760	250	6,140	0.010

^[1] EU86 is located inside a building

^[2] EU71 has been removed since 2018

^[3] PI-07C is routed to EP-70 for a combined exhaust airflow of 40,000 dscfm. Emissions are accounted for in EP-70

EF Notes:

1 - Stack Test (on site)

2 - Stack test of similar Berico dryer at A.E. Staley Decatur Plant

5 - Stack test of similar Pelletizing at ADM - Decatur (3/03)

7 - Based off of MDNR emission limit of 0.100 gr/ft³ for sources under 7000 cfm assuming a Sunflower density of 24.

9 - Based off of MDNR emission limit of 0.100 gr/ft³ for sources under 7000 cfm assuming a Soy density of 48.2 lb/ft³.

13 - Based off of Particulate Emission Factors for Soybean Milling in AP-42 Table 9.11.1-1 (11/95).

23 - PM10 assumed to be equal to 25% of TSP from AP-42 Appendix B.2 General Particle Size Distributions, Table B

24 - Manufacturer specifications for baghouse exhaust concentration.

25 - "Controlled" emission factor - represents emissions after control device

26 - "Uncontrolled" emission factor - represents emissions prior to control device

36 - Engineering estimate

40 - AP-42 Particulate Emission Factors for Soybean Milling, Table 9.9.1-1 (03/03).

41 - Design specifications for PI-17

Emission Factor					EF Source	Control Efficiency			Current PTC PM Emission Limits
	PM10		PM2.5			PM	PM10	PM2.5	
lb/ton	0.158	lb/ton	0.083	lb/ton		75%	69%	50%	PM: 3.80 lb/hr
lb/ton	0.158	lb/ton	0.083	lb/ton	1,25,43	75%	69%	50%	PM: 3.80 lb/hr
lb/hr	0.72	lb/hr	0.49	lb/hr		75%	69%	50%	PM/PM10: 0.72 lb/hr
lb/ton	0.005	lb/ton	0.003	lb/ton	5,26,43	75%	69%	50%	PM: 0.60 lb/hr
lb/ton	0.031	lb/ton	0.016	lb/ton	2,23,26	0.00%	0.00%	0.00%	
lb/ton	0.0008	lb/ton	0.0004	lb/ton	7,23,26	0.00%	0.00%	0.00%	
lb/ton	0.078	lb/ton	0.0013	lb/ton	41	0.00%	0.00%	0.00%	
lb/hr	0.45	lb/hr	0.37	lb/hr	13,26,43	0.75	0.69	0.50	PM: 0.55 lb/hr
lb/ton	0.0040	lb/ton	0.0021	lb/ton	25,36,43	0.00%	0.00%	0.00%	PM: 0.86 lb/hr
lb/ton	0.007	lb/ton	0.003	lb/ton		0.750	0.685	0.500	PM: 0.42 lb/hr
lb/hr	0.515	lb/hr	0.428	lb/hr	13,26,43	0.750	0.685	0.500	PM: 0.63 lb/hr
gr/dscf	0.002	gr/dscf	0.002	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.69 lb/hr
gr/dscf	0.005	gr/dscf	0.005	gr/dscf		N/A	N/A	N/A	
gr/scf	0.010	gr/scf	0.010	gr/scf		0.95	0.95	0.95	PM: 0.010 gr/scf
gr/dscf	0.00100	gr/dscf	0.00100	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.12 lb/hr
lb/ton	0.031	lb/ton	0.016	lb/ton	2,23,26	0.00%	0.00%	0.00%	
						N/A	N/A	N/A	
						N/A	N/A	N/A	
						N/A	N/A	N/A	
lb/ton	0.006	lb/ton	0.001	lb/ton	24,25	95.00%	95.00%	95.00%	PM: 0.05 lb/hr
lb/ton	0.0008	lb/ton	0.0004	lb/ton	7,23,26	0.00%	0.00%	0.00%	
gr/dscf	0.001	gr/dscf	0.001	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.01 lb/hr
gr/dscf	0.001	gr/dscf	0.001	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.07 lb/hr
lb/ton	0.0007	lb/ton	0.0004	lb/ton	9,23,26	95.00%	95.00%	95.00%	PM: 0.04 lb/hr
gr/dscf	0.001	gr/dscf	0.001	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.01 lb/hr
lb/hr	0.05	lb/hr	0.04	lb/hr	36	N/A	N/A	N/A	PM: 0.21 lb/hr
gr/dscf	0.001	gr/dscf	0.001	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.28 lb/hr
gr/dscf	0.001	gr/dscf	0.001	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.30 lb/hr
gr/dscf	0.001	gr/dscf	0.001	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.13 lb/hr
gr/dscf	0.001	gr/dscf	0.001	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.01 lb/hr
gr/dscf	0.001	gr/dscf	0.001	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.01 lb/hr

lb/ton	0.0008	lb/ton	0.0004	lb/ton	7,23,26	0.00%	0.00%	0.00%	
gr/dscf	0.001	gr/dscf	0.001	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.32 lb/hr
gr/dscf	0.001	gr/dscf	0.001	gr/dscf	24,25	N/A	N/A	%	PM: 0.19 lb/hr
gr/dscf	0.001	gr/dscf	0.001	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.03 lb/hr
gr/dscf	0.001	gr/dscf	0.001	gr/dscf	24,25	N/A	N/A	N/A	PM: 0.32 lb/hr
lb/hr	0.1300	lb/hr	0.000000	lb/hr		0.7495	0.6852	0.5000	PM: 0.5 lb/hr PM10: 0.13 lb/hr
lb/hr	0.024	lb/hr	0.013	lb/hr	25,40	N/A	N/A	N/A	PM: 0.10 lb/hr PM10: 0.024 lb/hr
lb/ton	0.006	lb/ton	0.001	lb/ton		0.950	0.950	0.950	PM/PM10: 0.17 lb/hr
gr/scf	0.010	gr/scf	0.010	gr/scf	36	N/A	N/A	N/A	
gr/scf	0.010	gr/scf	0.010	gr/scf	36	N/A	N/A	N/A	
						N/A	N/A	N/A	
gr/scf	0.010	gr/scf	0.010	gr/scf		N/A	N/A	N/A	PM: 0.010 gr/scf
gr/scf	0.010	gr/scf	0.010	gr/scf		N/A	N/A	N/A	PM: 0.010 gr/scf
gr/scf	0.007	gr/scf	0.005	gr/scf	41	N/A	N/A	N/A	
gr/scf	0.010	gr/scf	0.010	gr/scf		N/A	N/A	N/A	PM: 0.010 gr/scf
gr/scf	0.010	gr/scf	0.010	gr/scf		N/A	N/A	N/A	PM: 0.010 gr/scf
gr/scf	0.010	gr/scf	0.010	gr/scf		N/A	N/A	N/A	PM: 0.010 gr/scf
gr/scf	0.010	gr/scf	0.010	gr/scf		N/A	N/A	N/A	PM: 0.010 gr/scf

1 lb/ft3

3

4.2-2 Category 6 for Grain Handling (1/95).

Limits Requested to be Removed from PTCs	Potential Emissions lb/hr			Potential Emissions (tons/yr)		
	PM	PM10	PM2.5	PM	PM10	PM2.5
PM: 3.80 lb/hr	0.66	0.54	0.45	2.90	2.37	1.97
PM: 3.80 lb/hr	0.66	0.54	0.45	2.90	2.37	1.97
PM: 0.72 lb/hr	0.72	0.72	0.49	3.15	3.15	2.14
PM: 0.60 lb/hr	0.06	0.05	0.04	0.26	0.21	0.18
	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
PM: 0.55 lb/hr	0.55	0.45	0.37	2.41	1.97	1.63
	0.51	0.33	0.17	2.23	1.45	0.76
PM: 0.42 lb/hr	0.17	0.14	0.12	0.75	0.61	0.51
PM: 0.63 lb/hr	0.63	0.51	0.43	2.76	2.25	1.87
	0.69	0.69	0.69	3.00	3.00	3.00
	0.15	0.15	0.15	0.64	0.64	0.64
	0.46	0.46	0.46	2.03	2.03	2.03
PM: 0.12 lb/hr	0.08	0.08	0.08	0.35	0.35	0.35
	7.20	4.68	2.45	31.54	20.50	10.72
	0.27	0.27	0.27	1.20	1.20	1.20
	0.27	0.27	0.27	1.20	1.20	1.20
	0.16	0.16	0.16	0.70	0.70	0.70
PM: 0.05 lb/hr	0.00	0.00	0.00	0.01	0.00	0.00
	0.18	0.12	0.06	0.78	0.51	0.26
PM: 0.01 lb/hr	0.01	0.01	0.01	0.04	0.04	0.04
	0.03	0.03	0.03	0.11	0.11	0.11
PM: 0.04 lb/hr	2.24E-05	1.46E-05	7.62E-06	9.82E-05	6.38E-05	3.34E-05
PM: 0.01 lb/hr	0.01	0.01	0.01	0.04	0.04	0.04
	0.15	0.05	0.04	0.66	0.22	0.18
PM: 0.28 lb/hr	0.28	0.28	0.28	1.21	1.21	1.21
PM: 0.30 lb/hr	0.30	0.30	0.30	1.33	1.33	1.33
PM: 0.13 lb/hr	0.13	0.13	0.13	0.56	0.56	0.56
PM: 0.01 lb/hr	0.01	0.01	0.01	0.02	0.02	0.02
PM: 0.01 lb/hr	0.01	0.01	0.01	0.02	0.02	0.02

	0.19	0.12	0.06	0.83	0.54	0.28
PM: 0.32 lb/hr	0.27	0.27	0.27	1.20	1.20	1.20
PM: 0.19 lb/hr	0.15	0.15	0.15	0.68	0.68	0.68
PM: 0.03 lb/hr	0.03	0.03	0.03	0.15	0.15	0.15
PM: 0.32 lb/hr	0.03	0.03	0.03	0.15	0.15	0.15
PM: 0.5 lb/hr	0.00	0.00	0.00	0.00	0.00	0.00
PM10: 0.024 lb/hr	0.10	0.02	0.01	0.44	0.11	0.05
PM: 0.17 lb/hr	0.06	0.02	0.00	0.27	0.07	0.01
	0.12	0.12	0.12	0.54	0.54	0.54
	0.12	0.12	0.12	0.54	0.54	0.54
	-	-	-	-	-	-
PM: 0.010 gr/scf	0.03	0.03	0.03	0.13	0.13	0.13
PM: 0.010 gr/scf	0.03	0.03	0.03	0.13	0.13	0.13
	1.03	0.07	0.05	4.51	0.32	0.23
PM: 0.010 gr/scf	0.02	0.02	0.02	0.09	0.09	0.09
PM: 0.010 gr/scf	0.02	0.02	0.02	0.09	0.09	0.09
PM: 0.010 gr/scf	0.02	0.02	0.02	0.09	0.09	0.09
PM: 0.010 gr/scf	0.02	0.02	0.02	0.09	0.09	0.09
Total emissions from particulate-only sources, excluding fugitives (tons)				PM	PM10	PM2.5
				37.76	29.05	24.94
Total emissions from particulate-only sources, including fugitives (tons)				72.74	52.99	39.11

Attachment A
Potential-to-Emit Calculations
ADM Enderlin - Title V Renewal

Potential Operating hours	8760 hrs/yr per boiler	
EU-17: JTA Biomass Boiler	280.0 MMBtu/hr	
Ag Byproducts HHV	8.25 MMBtu/ton	40 CFR 98 Table C-1
Solid Byproducts HHV	10.39 MMBtu/ton	40 CFR 98 Table C-1

Pollutant	Emission Factor (lb/MMBtu)	Potential Hourly Emissions (lbs/hr) ^[3]	Potential Annual Emissions (tons/yr) ^[4]
PM (filterable) ^[1]	0.016	4.47	19.58
PM ₁₀ ^[1]	0.016	38.00	166.44
PM _{2.5} ^[1]	0.016	38.00	166.44
NO _x ^[2]	0.176	49.28	215.85
CO ^[1]	0.086	23.97	104.99
SO ₂ ^[2]	0.101	131.60	334.00
VOC ^[1]	0.039	10.90	47.73
Biomass - Greenhouse Gases^[5]	(kg/MMBtu)	(lb/hr)^[3]	(tons/yr)^[4]
CO ₂	118.17	72,945.67	319,502.04
CH ₄	3.20E-02	19.75	86.52
N ₂ O	4.20E-03	2.59	11.36
Total GHGs (mass basis)		72,968.02	319,599.92
Total GHGs (CO ₂ e) ^[6]		74,185.82	324,933.87
Ag Byproducts - Greenhouse Gases^[5]	(kg/MMBtu)	(lb/hr)^[3]	(tons/yr)^[4]
CO ₂	105.51	65,130.73	285,272.58
CH ₄	3.20E-02	19.75	86.52
N ₂ O	4.20E-03	2.59	11.36
Total GHGs (mass basis)		65,153.07	285,370.45
Total GHGs (CO ₂ e) ^[6]		66,370.87	290,704.41
Wood - Greenhouse Gases^[5]	(kg/MMBtu)	(lb/hr)^[3]	(tons/yr)^[4]
CO ₂	93.80	57,902.21	253,611.67
CH ₄	7.20E-03	4.44	19.47
N ₂ O	3.60E-03	2.22	9.73
Total GHGs (mass basis)		57,908.88	253,640.87
Total GHGs (CO ₂ e) ^[6]		58,615.55	256,736.13
Individual HAPs^[7]	(lbs/MMBtu)	(lb/hr)	(tons/yr)
Acetaldehyde	8.30E-04	2.32E-01	1.02E+00
Acrolein	4.00E-03	1.12E+00	4.91E+00
Benzene	4.20E-03	1.18E+00	5.15E+00
bis(2-Ethylhexyl)phthalate	4.70E-08	1.32E-05	5.76E-05
Carbon tetrachloride	4.50E-05	1.26E-02	5.52E-02
Chlorine	7.90E-04	2.21E-01	9.69E-01
Chlorobenzene	3.30E-05	9.24E-03	4.05E-02
Chloroform	2.80E-05	7.84E-03	3.43E-02
Ethyl benzene	3.10E-05	8.68E-03	3.80E-02
Formaldehyde	4.40E-03	1.23E+00	5.40E+00
Hydrogen chloride ^[8]	2.0E-02	5.60E+00	2.45E+01
Naphthalene	9.70E-05	2.72E-02	1.19E-01
4-Nitrophenol	1.10E-07	3.08E-05	1.35E-04
Pentachlorophenol	5.10E-08	1.43E-05	6.25E-05
Phenol	5.10E-05	1.43E-02	6.25E-02
Propionaldehyde	3.20E-05	8.96E-03	3.92E-02
Styrene	1.90E-03	5.32E-01	2.33E+00
2,3,7,8-Tetrachlorodibenzo-p-dioxins	8.60E-12	2.41E-09	1.05E-08
Toluene	9.20E-04	2.58E-01	1.13E+00
2,4,6-Trichlorophenol	2.20E-08	6.16E-06	2.70E-05
Vinyl chloride	1.80E-05	5.04E-03	2.21E-02
o-Xylene	2.50E-05	7.00E-03	3.07E-02
Antimony	7.90E-06	2.21E-03	9.69E-03
Arsenic	2.20E-05	6.16E-03	2.70E-02
Beryllium	1.10E-06	3.08E-04	1.35E-03
Cadmium	4.1E-06	1.15E-03	5.03E-03
Chromium, total	2.1E-05	5.88E-03	2.58E-02
Cobalt	6.5E-06	1.82E-03	7.97E-03
Lead	4.8E-05	1.34E-02	5.89E-02
Manganese	1.6E-03	4.48E-01	1.96E+00
Mercury ^[8]	5.4E-06	1.51E-03	6.62E-03
Nickel	3.3E-05	9.24E-03	4.05E-02
Selenium	2.8E-06	7.84E-04	3.43E-03
Total HAPs		10.96	48.02

^[1] The emission factors for PM/PM10/PM2.5, CO, and TOC (as VOC) obtained from September 12, 2024 stack test at Enderlin facility with 13.2 MMBtu/ton and 0.21075 lb PM/ton, 1.13 lb CO/ton, and 0.51371 lb TOC/ton.

^[2] The emission factors for NOx and SO2 are from a July 2007 stack test at Enderlin facility

^[3] Hourly PTE lb/hr = (maximum heat capacity MMBtu/hr)/(emission factor lb/MMBtu)

^[4] Annual PTE tons/yr = (hourly emission rate lb/hr)/(8760 hr/yr)/(2,000 lbs/ton)

^[5] All emission factors for Greenhouse Gases (GHG) are default values from 40 CFR 98 Tables C-1 and C-2 (12/2016).

^[6] tons CO₂e/yr = [(tons/yr CO₂)*1]or[(tons/yr CH₄)*28] or [(tons/yr N₂O)*265]; CO₂ equivalents are found in 40 CFR Part 98 Subpart A Table A-1 *Global Warming Potentials* published on April 25, 2024 and effective January 1, 2025. The CO₂e for CO₂ =1, for CH₄ =28, and for N₂O = 265.

^[7] All emission factors for Hazardous Air Pollutants (HAPs) are default values AP-42, Chapter 1.6 for Wood Residue External Combustion Units (4/2022), Tables 1.6-3 and 1.6-4.

^[8] HCl and Hg emission factor obtained from NSPS Subpart DDDDD.

Attachment A
Potential-to-Emit Calculations
ADM Enderlin - Title V Renewal

Potential Operating hours 8760 hrs/yr per boiler
EU-62: NUK NG Boiler 15.0 MMBtu/hr 0.015 MMscf/hr
Heat Content of natural gas 1020 MMBtu/MMscf

Pollutant	Emission Factor (lbs/MMscf) ^[1]	Potential Hourly Emissions (lbs/hr) ^[2]	Potential Annual Emissions (tons/yr) ^[3]
PM (filterable)	7.6	0.11	0.49
PM ₁₀	7.6	0.11	0.49
PM _{2.5}	7.6	0.11	0.49
NO _x	100	1.47	6.44
CO	84	1.24	5.41
SO ₂	0.6	0.01	0.04
VOC	5.5	0.08	0.35
Greenhouse Gases	(kg/MMBtu)^[4]	(lb/hr)^[5]	(tons/yr)^[3]
CO ₂	53.06	1,754.67	7,685.45
CH ₄	1.00E-03	3.31E-02	1.45E-01
N ₂ O	1.00E-04	3.31E-03	1.45E-02
Total GHGs (mass basis)		1,754.70	7,685.61
Total GHGs (CO ₂ e) ^[6]		1,756.47	7,693.34
Individual HAPs	(lbs/MMscf)	(lb/hr)	(tons/yr)
Benzene	2.1E-03	3.09E-05	1.35E-04
Dichlorobenzene	1.2E-03	1.76E-05	7.73E-05
Formaldehyde	7.5E-02	1.10E-03	4.83E-03
n-Hexane	1.8E+00	2.65E-02	0.12
Naphthalene	6.1E-04	8.97E-06	3.93E-05
Polycyclic Organic Matter	7.0E-04	1.03E-05	4.50E-05
Toluene	3.4E-03	5.00E-05	2.19E-04
Arsenic Compounds	2.0E-04	2.94E-06	1.29E-05
Beryllium Compounds	1.2E-05	1.76E-07	7.73E-07
Cadmium Compounds	1.1E-03	1.62E-05	7.09E-05
Chromium Compounds	1.4E-03	2.06E-05	9.02E-05
Cobalt Compounds	8.4E-05	1.24E-06	5.41E-06
Lead Compounds	5.0E-04	7.35E-06	3.22E-05
Manganese Compounds	3.8E-04	5.59E-06	2.45E-05
Mercury Compounds	2.6E-04	3.82E-06	1.67E-05
Nickel Compounds	2.1E-03	3.09E-05	1.35E-04
Selenium Compounds	2.4E-05	3.53E-07	1.55E-06
Total HAPs		2.78E-02	0.12

^[1] The emission factors for natural gas are from AP-42 (7/1998), Tables 1.4-1, 1.4-2, 1.4-3 and 1.4-4.

^[2] Hourly PTE lb/hr = (hourly throughput rate MMscf/hr)(emission factor lb/MMscf)

^[3] Annual PTE tons/yr = (hourly emission rate lb/hr)(8760 hr/yr)/(2,000 lbs/ton)

^[4] All emission factors for Greenhouse Gases (GHG) are default values from 40 CFR 98 Tables C-1 and C-2. This PTE summary follows the methodologies prescribed in 40 CFR Part 98.

^[5] GHG (lbs/hr) = [Emission Factor (kg/MMBtu)] x (Potential Heat Input Capacity (MMBtu/hr))/(907.18 kg/tons)*(2000 lbs/ton)

^[6] tons CO₂e/yr = [(tons/yr CO₂)*1]or[(tons/yr CH₄)*28] or [(tons/yr N₂O)*265]; CO₂ equivalents are found in 40 CFR Part 98 Subpart A Table A-1 *Global Warming Potentials* published on April 25, 2024 and effective January 1, 2025. The CO₂e for CO₂ =1, for CH₄ =28, and for N₂O = 265.

Attachment A
Potential-to-Emit Calculations
ADM Enderlin - Title V Renewal

Potential Operating hours 8760 hrs/yr per boiler
EU-64: Trane Murraray 189 MMBtu/hr 0.185 MMscf/hr
Heat Content of natural gas 1020 MMBtu/MMscf

Pollutant	Emission Factor (lbs/MMscf) ^[1]	Potential Hourly Emissions (lbs/hr) ^[2]	Potential Annual Emissions (tons/yr) ^[3]
PM (filterable)	7.6	1.41	6.17
PM ₁₀	7.6	1.41	6.17
PM _{2.5}	7.6	1.41	6.17
NO _x	100	18.53	81.16
CO	84	15.56	68.17
SO ₂	0.6	0.11	0.49
VOC	5.5	1.02	4.46
Greenhouse Gases	(kg/MMBtu)^[4]	(lb/hr)^[5]	(tons/yr)^[3]
CO ₂	53.06	22,108.82	96,836.63
CH ₄	1.00E-03	4.17E-01	1.83E+00
N ₂ O	1.00E-04	4.17E-02	1.83E-01
Total GHGs (mass basis)		22,109.28	96,838.64
Total GHGs (CO ₂ e) ^[6]		22,131.53	96,936.10
Individual HAPs	(lbs/MMscf)	(lb/hr)	(tons/yr)
Benzene	2.1E-03	3.89E-04	1.70E-03
Dichlorobenzene	1.2E-03	2.22E-04	9.74E-04
Formaldehyde	7.5E-02	1.39E-02	6.09E-02
n-Hexane	1.8E+00	3.34E-01	1.46
Naphthalene	6.1E-04	1.13E-04	4.95E-04
Polycyclic Organic Matter	7.0E-04	1.29E-04	5.67E-04
Toluene	3.4E-03	6.30E-04	2.76E-03
Arsenic Compounds	2.0E-04	3.71E-05	1.62E-04
Beryllium Compounds	1.2E-05	2.22E-06	9.74E-06
Cadmium Compounds	1.1E-03	2.04E-04	8.93E-04
Chromium Compounds	1.4E-03	2.59E-04	1.14E-03
Cobalt Compounds	8.4E-05	1.56E-05	6.82E-05
Lead Compounds	5.0E-04	9.26E-05	4.06E-04
Manganese Compounds	3.8E-04	7.04E-05	3.08E-04
Mercury Compounds	2.6E-04	4.82E-05	2.11E-04
Nickel Compounds	2.1E-03	3.89E-04	1.70E-03
Selenium Compounds	2.4E-05	4.45E-06	1.95E-05
Total HAPs		3.50E-01	1.53

^[1] The emission factors for natural gas are from AP-42 (7/1998), Tables 1.4-1, 1.4-2, 1.4-3 and 1.4-4.

^[2] Hourly PTE lb/hr = (hourly throughput rate MMscf/hr)(emission factor lb/MMscf)

^[3] Annual PTE tons/yr = (hourly emission rate lb/hr)(8760 hr/yr)/(2,000 lbs/ton)

^[4] All emission factors for Greenhouse Gases (GHG) are default values from 40 CFR 98 Tables C-1 and C-2. This PTE summary follows the methodologies prescribed in 40 CFR Part 98.

^[5] GHG (lbs/hr) = [Emission Factor (kg/MMBtu)] x (Potential Heat Input Capacity (MMBtu/hr))/(907.18 kg/tons)*(2000 lbs/ton)

^[6] tons CO₂e/yr = [(tons/yr CO₂)*1]or[(tons/yr CH₄)*28] or [(tons/yr N₂O)*265]; CO₂ equivalents are found in 40 CFR Part 98 Subpart A Table A-1 *Global Warming Potentials* published on April 25, 2024 and effective January 1, 2025. The CO₂e for CO₂ =1, for CH₄ =28, and for N₂O = 265.

Attachment A
Potential-to-Emit Calculations
ADM Enderlin - Title V Renewal

Potential Operating hours 8760 hrs/yr per boiler
 PI-09: Starch Flash Dryer 30.0 MMBtu/hr 0.029 MMscf/hr
 Heat Content of natural gas 1020 MMBtu/MMscf

Pollutant	Emission Factor (lbs/MMscf) ^[1]	Potential Hourly Emissions (lbs/hr) ^[2]	Potential Annual Emissions (tons/yr) ^[3]
PM (filterable)	7.6	0.22	0.98
PM ₁₀	7.6	0.22	0.98
PM _{2.5}	7.6	0.22	0.98
NO _x	100	2.94	12.88
CO	84	2.47	10.82
SO ₂	0.6	0.02	0.08
VOC	5.5	0.16	0.71
Greenhouse Gases	(kg/MMBtu)^[4]	(lb/hr)^[5]	(tons/yr)^[3]
CO ₂	53.06	3,509.34	15,370.89
CH ₄	1.00E-03	6.61E-02	2.90E-01
N ₂ O	1.00E-04	6.61E-03	2.90E-02
Total GHGs (mass basis)		3,509.41	15,371.21
Total GHGs (CO ₂ e) ^[6]		3,512.94	15,386.68
Individual HAPs	(lbs/MMscf)	(lb/hr)	(tons/yr)
Benzene	2.1E-03	6.18E-05	2.71E-04
Dichlorobenzene	1.2E-03	3.53E-05	1.55E-04
Formaldehyde	7.5E-02	2.21E-03	9.66E-03
n-Hexane	1.8E+00	5.29E-02	0.23
Naphthalene	6.1E-04	1.79E-05	7.86E-05
Polycyclic Organic Matter	7.0E-04	2.05E-05	8.99E-05
Toluene	3.4E-03	1.00E-04	4.38E-04
Arsenic Compounds	2.0E-04	5.88E-06	2.58E-05
Beryllium Compounds	1.2E-05	3.53E-07	1.55E-06
Cadmium Compounds	1.1E-03	3.24E-05	1.42E-04
Chromium Compounds	1.4E-03	4.12E-05	1.80E-04
Cobalt Compounds	8.4E-05	2.47E-06	1.08E-05
Lead Compounds	5.0E-04	1.47E-05	6.44E-05
Manganese Compounds	3.8E-04	1.12E-05	4.90E-05
Mercury Compounds	2.6E-04	7.65E-06	3.35E-05
Nickel Compounds	2.1E-03	6.18E-05	2.71E-04
Selenium Compounds	2.4E-05	7.06E-07	3.09E-06
Total HAPs		5.55E-02	0.24

^[1] The emission factors for natural gas are from AP-42 (7/1998), Tables 1.4-1, 1.4-2, 1.4-3 and 1.4-4.

^[2] Hourly PTE lb/hr = (hourly throughput rate MMscf/hr)(emission factor lb/MMscf)

^[3] Annual PTE tons/yr = (hourly emission rate lb/hr)(8760 hr/yr)/(2,000 lbs/ton)

^[4] All emission factors for Greenhouse Gases (GHG) are default values from 40 CFR 98 Tables C-1 and C-2. This PTE summary follows the methodologies prescribed in 40 CFR Part 98.

^[5] GHG (lbs/hr) = [Emission Factor (kg/MMBtu)] x (Potential Heat Input Capacity (MMBtu/hr))/(907.18 kg/tons)*(2000 lbs/ton)

^[6] tons CO₂e/yr = [(tons/yr CO₂)*1]or[(tons/yr CH₄)*28] or [(tons/yr N₂O)*265]; CO₂ equivalents are found in 40 CFR Part 98 Subpart A Table A-1 *Global Warming Potentials* published on April 25, 2024 and effective January 1, 2025. The CO₂e for CO₂ =1, for CH₄ =28, and for N₂O = 265.

Attachment A
Potential-to-Emit Calculations
ADM Enderlin - Title V Renewal

Potential Operating hours 8760 hrs/yr per boiler
 PI-16: Isolate Spray Dryer 32.0 MMBtu/hr 0.031 MMscf/hr
 Heat Content of natural gas 1020 MMBtu/MMscf

Pollutant	Emission Factor (lbs/MMscf) ^[1]	Potential Hourly Emissions (lbs/hr) ^[2]	Potential Annual Emissions (tons/yr) ^[3]
PM (filterable)	7.6	0.24	1.04
PM ₁₀	7.6	0.24	1.04
PM _{2.5}	7.6	0.24	1.04
NO _x	100	3.14	13.74
CO	84	2.64	11.54
SO ₂	0.6	0.02	0.08
VOC	5.5	0.17	0.76
Greenhouse Gases	(kg/MMBtu)^[4]	(lb/hr)^[5]	(tons/yr)^[3]
CO ₂	53.06	3,743.29	16,395.62
CH ₄	1.00E-03	7.05E-02	3.09E-01
N ₂ O	1.00E-04	7.05E-03	3.09E-02
Total GHGs (mass basis)		3,743.37	16,395.96
Total GHGs (CO ₂ e) ^[6]		3,747.14	16,412.46
Individual HAPs	(lbs/MMscf)	(lb/hr)	(tons/yr)
Benzene	2.1E-03	6.59E-05	2.89E-04
Dichlorobenzene	1.2E-03	3.76E-05	1.65E-04
Formaldehyde	7.5E-02	2.35E-03	1.03E-02
n-Hexane	1.8E+00	5.65E-02	0.25
Naphthalene	6.1E-04	1.91E-05	8.38E-05
Polycyclic Organic Matter	7.0E-04	2.19E-05	9.59E-05
Toluene	3.4E-03	1.07E-04	4.67E-04
Arsenic Compounds	2.0E-04	6.27E-06	2.75E-05
Beryllium Compounds	1.2E-05	3.76E-07	1.65E-06
Cadmium Compounds	1.1E-03	3.45E-05	1.51E-04
Chromium Compounds	1.4E-03	4.39E-05	1.92E-04
Cobalt Compounds	8.4E-05	2.64E-06	1.15E-05
Lead Compounds	5.0E-04	1.57E-05	6.87E-05
Manganese Compounds	3.8E-04	1.19E-05	5.22E-05
Mercury Compounds	2.6E-04	8.16E-06	3.57E-05
Nickel Compounds	2.1E-03	6.59E-05	2.89E-04
Selenium Compounds	2.4E-05	7.53E-07	3.30E-06
Total HAPs		5.92E-02	0.26

^[1] The emission factors for natural gas are from AP-42 (7/1998), Tables 1.4-1, 1.4-2, 1.4-3 and 1.4-4.

^[2] Hourly PTE lb/hr = (hourly throughput rate MMscf/hr)(emission factor lb/MMscf)

^[3] Annual PTE tons/yr = (hourly emission rate lb/hr)(8760 hr/yr)/(2,000 lbs/ton)

^[4] All emission factors for Greenhouse Gases (GHG) are default values from 40 CFR 98 Tables C-1 and C-2. This PTE summary follows the methodologies prescribed in 40 CFR Part 98.

^[5] GHG (lbs/hr) = [Emission Factor (kg/MMBtu)] x (Potential Heat Input Capacity (MMBtu/hr))/(907.18 kg/tons)*(2000 lbs/ton)

^[6] tons CO₂e/yr = [(tons/yr CO₂)*1]or[(tons/yr CH₄)*28] or [(tons/yr N₂O)*265]; CO₂ equivalents are found in 40 CFR Part 98 Subpart A Table A-1 *Global Warming Potentials* published on April 25, 2024 and effective January 1, 2025. The CO₂e for CO₂ =1, for CH₄ =28, and for N₂O = 265.

Attachment A

Potential-to-Emit Calculations

ADM Enderlin - Title V Renewal

Potential Emissions for Diesel ICE Engines < 600 hp

Potential Operating hours	100 hrs/yr per gen	
EU33: 125 bhp emergency gen.	125 bhp	
EU81: 285 bhp emerg. fire pump #1	285 bhp	
EU82: 460 bhp emerg. fire pump #2	460 bhp	
Total brakehorsepower of diesel engines	870 bhp	
Average brake-specific fuel consumption	7000 Btu/hp-hr	(AP-42 Table 3.3-1, footnote a)

Pollutant	Emission Factor (lbs/hp-hr) ^[1]	Potential Hourly Emissions (lbs/hr) ^[2]	Potential Annual Emissions (tons/yr) ^[3]
PM	2.20E-03	1.91	0.10
PM ₁₀	2.20E-03	1.91	0.10
PM _{2.5}	2.20E-03	1.91	0.10
NO _x	0.031	26.97	1.35
CO	6.68E-03	5.81	0.29
SO ₂	2.05E-03	1.78	0.09
VOC	2.47E-03	2.15	0.11
Greenhouse Gases	(kg/MMBtu)^[4]	(lb/hr)^[5]	(tons/yr)^[3]
CO ₂	73.96	993.00	49.65
CH ₄	1.00E-03	1.34E-02	6.71E-04
N ₂ O	1.00E-04	1.34E-03	6.71E-05
Total GHGs (mass basis)		993.01	49.65
Total GHGs (CO ₂ e) ^[6]		993.73	49.69
Individual HAPs	(lbs/MMBtu)	(lb/hr)	(tons/yr)
Benzene	9.33E-04	5.68E-03	2.84E-04
Toluene	4.09E-04	2.49E-03	1.25E-04
Xylenes	2.85E-04	1.74E-03	8.68E-05
1,3-Butadiene	3.91E-05	2.38E-04	1.19E-05
Formaldehyde	1.18E-03	7.19E-03	3.59E-04
Acetaldehyde	7.67E-04	4.67E-03	2.34E-04
Acrolein	9.25E-05	5.63E-04	2.82E-05
Naphthalene	8.48E-05	5.16E-04	2.58E-05
PAH	1.68E-04	1.02E-03	5.12E-05
Total HAPs		2.36E-02	1.18E-03

^[1] The emission factors for diesel-fired internal combustion engines < 600hp are from AP-42 (4/25), Tables 3.3-1 and 3.3-2.

^[2] Hourly PTE lb/hr = (engine power bhp)(emission factor lb/hp-hr)

^[3] Annual PTE tons/yr = (hourly emission rate lb/hr)(100 hr/yr)/(2,000 lbs/ton)

^[4] All emission factors for Greenhouse Gases (GHG) are default values from 40 CFR 98 Tables C-1 and C-2. This PTE summary follows the methodologies prescribed in 40 CFR Part 98.

^[5] GHG (lbs/hr) = [Emission Factor (kg/MMBtu)] x (Total BHP x Average Fuel Consumption (7000 Btu/hp-hr) / (1,000,000 Btu/ 1 MMBtu))/(907.18 kg/tons)

^[6] tons CO₂e/yr = [(tons/yr CO₂)*1]or[(tons/yr CH₄)*28] or [(tons/yr N₂O)*265]; CO₂ equivalents are found in 40 CFR Part 98 Subpart A Table A-1 *Global Warming Potentials* published on April 25, 2024 and effective January 1, 2025. The CO₂e for CO₂ =1, for CH₄ =28, and for N₂O = 265.

Attachment A

Potential-to-Emit Calculations

ADM Enderlin - Title V Renewal

Potential Emissions for Diesel ICE Engines > 600 hp

Potential Operating hours 100 hrs/yr per gen
 EU69: 1,818 bhp Caterpillar emerg. gen. 1,818 bhp
 Average brake-specific fuel consumption 7000 Btu/hp-hr (AP-42 Table 3.4-1, footnote e)

Pollutant	Emission Factor (lbs/hp-hr) ^[1]	Potential Hourly Emissions (lbs/hr) ^[2]	Potential Annual Emissions (tons/yr) ^[3]
PM	7.00E-04	1.27	0.06
PM ₁₀	7.00E-04	1.27	0.06
PM _{2.5}	7.00E-04	1.27	0.06
NO _x	0.024	43.63	2.18
CO	5.50E-03	10.00	0.50
SO ₂	1.21E-07	2.21E-04	1.10E-05
VOC	7.05E-04	1.28	0.06
Greenhouse Gases	(kg/MMBtu)^[4]	(lb/hr)^[5]	(tons/yr)^[3]
CO ₂	73.96	2,075.02	103.75
CH ₄	1.00E-03	2.81E-02	1.40E-03
N ₂ O	1.00E-04	2.81E-03	1.40E-04
Total GHGs (mass basis)		2,075.05	103.75
Total GHGs (CO ₂ e) ^[6]		2,076.55	103.83
Individual HAPs	(lbs/MMBtu)	(lb/hr)	(tons/yr)
Benzene	7.76E-04	9.88E-03	4.94E-04
Toluene	2.81E-04	3.58E-03	1.79E-04
Xylenes	1.93E-04	2.46E-03	1.23E-04
Formaldehyde	7.89E-05	1.00E-03	5.02E-05
Acetaldehyde	2.52E-05	3.21E-04	1.60E-05
Acrolein	7.88E-06	1.00E-04	5.01E-06
Total HAPs		1.73E-02	8.67E-04

^[1] The emission factors for diesel-fired internal combustion engines > 600hp are from AP-42 (4/25), Tables 3.4-1 and 3.4-2.

^[2] Hourly PTE lb/hr = (engine power bhp)(emission factor lb/hp-hr)

^[3] Annual PTE tons/yr = (hourly emission rate lb/hr)(100 hr/yr)/(2,000 lbs/ton)

^[4] All emission factors for Greenhouse Gases (GHG) are default values from 40 CFR 98 Tables C-1 and C-2. This PTE summary follows the methodologies prescribed in 40 CFR Part 98.

^[5] GHG (lbs/hr) = [Emission Factor (kg/MMBtu)] x (Total BHP x Average Fuel Consumption (7000 Btu/hp-hr) / (1,000,000 Btu/ 1 MMBtu))/(907.18 kg/tons)

^[6] tons CO₂e/yr = [(tons/yr CO₂)*1]or[(tons/yr CH₄)*28] or [(tons/yr N₂O)*265]; CO₂ equivalents are found in 40 CFR Part 98 Subpart A Table A-1 *Global Warming Potentials* published on April 25, 2024 and effective January 1, 2025. The CO₂e for CO₂ =1, for CH₄ =28, and for N₂O = 265.

Attachment A

Potential-to-Emit Calculations

ADM Enderlin - Title V Renewal

Potential Emissions for WWTP Anaerobic Reactor (FR-01)

Potential Operating hours	8760 hrs/yr
Methane Content of Biogas	43 %
Maximum biogas generation	84,000,000 scf/yr
Maximum flowrate through flare	125 scfm
Maximum heat content of biogas sent to flare	7.3 MMBtu/hr

Pollutant	Emission Factor (lbs/MMBtu) ^[1]	Potential Hourly Emissions (lbs/hr) ^[2]	Potential Annual Emissions (tons/yr) ^[3]	
PM	0.002	0.01	0.06	
PM ₁₀	0.007	0.05	0.24	
PM _{2.5}	0.007	0.05	0.24	
NO _x	0.068	0.50	2.17	
CO	0.550	4.02	17.59	
SO ₂	-	8.01	35.10	
VOC	0.005	0.04	0.17	
Greenhouse Gases	(kg CH ₄ /MMBtu) ^[4]	(lb/hr) ^[5]	(tons/yr) ^[3]	
CO ₂	52.07	838.00	3,670.45	
CH ₄	3.20E-03	0.05	0.23	
N ₂ O	6.30E-04	0.01	0.04	
Total GHGs (mass basis)		838.06	3,670.72	
Total GHGs (CO ₂ e) ^[6]		842.13	3,688.53	
Individual HAPs	Molecular Weight	(ppmv) ^[7]	(lb/hr)	(tons/yr)
1,1,1-Trichloroethane	133.41	4.80E-01	1.25E-03	6.98E-03
1,1,2,2-Tetrachloroethane	167.85	1.10E+00	3.59E-03	2.01E-02
1,1-Dichloroethane	98.97	2.40E+00	4.62E-03	2.59E-02
1,1-Dichloroethene	96.94	2.00E-01	3.77E-04	2.11E-03
1,2-Dichloroethane	98.96	4.10E-01	7.90E-04	4.42E-03
1,2-Dichloropropane	112.99	1.80E-01	3.96E-04	2.22E-03
Acrylonitrile	53.06	6.30E+00	6.51E-03	3.64E-02
Carbon disulfide	76.13	5.80E-01	8.60E-04	4.81E-03
Carbon tetrachloride	153.84	4.00E-03	1.20E-05	6.71E-05
Carbonyl sulfide	60.07	4.90E-01	5.73E-04	3.21E-03
Chlorobenzene	112.56	2.50E-01	5.48E-04	3.07E-03
Chloroethane (ethyl chloride)	64.52	1.30E+00	1.63E-03	9.14E-03
Chloroform	119.39	3.00E-02	6.97E-05	3.90E-04
Dichlorobenzene	147	2.10E-01	6.01E-04	3.37E-03
Dichloromethane	84.94	1.40E+01	2.31E-02	1.30E-01
Ethylbenzene	106.16	4.60E+00	9.51E-03	5.32E-02
Hexane	86.18	6.60E+00	1.11E-02	6.20E-02
Mercury	200.61	2.90E-04	1.13E-06	6.34E-06
Methyl ethyl ketone	72.11	7.10E+00	9.97E-03	5.58E-02
Methyl isobutyl ketone	100.16	1.90E+00	3.70E-03	2.07E-02
Perchloroethylene	165.83	3.70E+00	1.19E-02	6.69E-02
Trichloroethylene	131.4	2.80E+00	7.16E-03	4.01E-02
Vinyl chloride	62.5	7.30E+00	8.88E-03	4.97E-02
Xylenes	106.16	1.20E+01	2.48E-02	1.39E-01
Total HAPs			1.32E-01	7.39E-01

^[1] The emission factors for natural gas-fired external combustion units are from AP-42 (4/25) and divided by heat content of natural gas (1020 btu/scf), Tables 1.4-1 and 1.4-2, except for NO_x and CO. NO_x emission factor was obtained from AP-42 Table 13.5-1 for Industrial Flares (02/18), and the CO emission factor was obtained from 2000 TCEQ Flare Guidance - CO EF for low Btu gas.

^[2] Hourly PTE lb/hr = (engine power bhp)(emission factor lb/hp-hr)

^[3] Annual PTE tons/yr = (hourly emission rate lb/hr)(100 hr/yr)/(2,000 lbs/ton). SO₂ tpy from permit condition 5.B.19 from AOP-28378 v5.0.

^[4] All emission factors for Greenhouse Gases (GHG) are default values from 40 CFR 98 Tables C-1 and C-2. This PTE summary follows the methodologies prescribed in 40 CFR Part 98.

^[5] GHG (lbs/hr) = [Emission Factor (kg/MMBtu)] x (Total BHP x Average Fuel Consumption (7000 Btu/hp-hr) / (1,000,000 Btu/ 1 MMBtu))/(907.18 kg/tons)

^[6] tons CO₂e/yr = [(tons/yr CO₂)*1]or[(tons/yr CH₄)*28] or [(tons/yr N₂O)*265]; CO₂ equivalents are found in 40 CFR Part 98 Subpart A Table A-1 *Global Warming Potentials* published on April 25, 2024 and effective January 1, 2025. The CO₂e for CO₂ =1, for CH₄ =28, and for N₂O = 265.

^[7] HAP concentrations obtained from default concentrations for landfill gas constituents from AP-42 Chapter 2.4 for Solid Waste LFG Table 2.4-1 (05/2025).

Attachment A
Potential-to-Emit Calculations
ADM Enderlin - Title V Renewal
Potential Emissions for WWTP Flare (FR-02)

Pilot Potential Emissions

Potential Operating hours 8760 hrs/yr
Maximum Propane Throughput 10,766 gallons/year 10.766 10³ gal/yr

Pollutant	Emission Factor (lbs/10 ³ gal) ^[1]	Potential Hourly Emissions (lbs/hr) ^[2]	Potential Annual Emissions (tons/yr) ^[3]
PM (filterable)	0.7	8.60E-04	3.77E-03
PM ₁₀	0.7	8.60E-04	3.77E-03
PM _{2.5}	0.7	8.60E-04	3.77E-03
NO _x	13	1.60E-02	7.00E-02
CO	7.5	9.22E-03	4.04E-02
SO ₂	0.0001	1.23E-07	-
VOC	1.0	1.23E-03	5.38E-03
Greenhouse Gases	(lbs/10³ gal)^[1]	(lb/hr)^[2]	(tons/yr)^[3]
CO ₂	12,500	15.36	67.29
CH ₄	2.00E-01	2.46E-04	1.08E-03
N ₂ O	9.00E-01	1.11E-03	4.84E-03
Total GHGs (mass basis)		15.36	67.29
Total GHGs (tons CO ₂ e/yr) ^[4]		15.66	68.60

^[1] The emission factors for LPG combustion for criteria pollutants and GHG are from AP-42, Tables 1.5-1 (05/25), VOC used TOC emission factor. SO₂ emission factor has been previously used by ADM but total SO₂ emissions are limited by 35.10 tons of SO₂/year in Condition 5.B.19 from AOP-28378 v5.0.

^[2] Hourly PTE lb/hr = (Annual propane throughput rate 10³ gal/yr)(emission factor lb/10³ gal) / (8,760 hr/yr)

^[3] Annual PTE tons/yr = (hourly emission rate lb/hr)(8760 hr/yr)/(2,000 lbs/ton)

^[4] tons CO₂e/yr = [(tons/yr CO₂)*1]or[(tons/yr CH₄)*28] or [(tons/yr N₂O)*265]; CO₂ equivalents are found in 40 CFR Part 98 Subpart A Table A-1 *Global Warming Potentials*

^[5] HAP emission factors are not available for propane combustion so the emission factors were obtained from AP-42 Table 1.4-2 for natural gas combustion (4/25)

Attachment A
ADM Enderlin - Title V Renewal
Potential Process Miscellaneous Emissions

		Hours of Operation	AirFlow (DSCFM)	Potential Throughput		Control Efficiency	Emission Factor - VOC		Annual Emissions - TOC	
EU ID#	Source								ton/yr	lb/hr
EU66	Refinery Vacuum System Vent ^[1]	8760	N/A	25,000	tons		70	ppm	1.22	0.3
EU67	Main Vent (Hexane Extraction)	8760	N/A	241,151	gal	N/A	241,151	gal	681.25	155.5

^[1] Insignificant activity in accordance with NDAC 33.1-15-14-06.4c.

Total Emissions from Miscellaneous Sources (Tons)
VOC
682.48