Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: MidAmerican Energy Company – Walter Scott Jr. Energy Center

Facility Location: 7215 Navajo Street, Council Bluffs, IA 51501

Air Quality Operating Permit Number: 97-TV-001R4-M001

Expiration Date: July 9, 2030

Permit Renewal Application Deadline: January 9, 2030

EIQ Number: 92-3600
Facility File Number: 78-01-026

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

For the Director of the Department of Natural Resources

Corey McCoid

10/21/2026

Corey McCoid, Supervisor of Air Operating Permits Section — Date

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Abbreviations

acfm.....actual cubic feet per minute
BACT.....Best Available Control Technology
CFR.....Code of Federal Regulation
CE .....control equipment
CEM.....continuous emission monitor
^{o}F.....degrees Fahrenheit
DNR .....Iowa Department of Natural Resources
EIQ.....emissions inventory questionnaire
EP.....emission point
EU .....emission unit
gr./dscf .....grains per dry standard cubic foot
gr./100 cf.....grains per one hundred cubic feet
IAC.....Iowa Administrative Code
MACT.....Maximum Achievable Control Technology
NAICS.....North American Industry Classification System
NSPS.....new source performance standard
NESHAP.....National Emission Standards for Hazardous Air Pollutants
ppmv .....parts per million by volume
lb./hr.....pounds per hour
lb./MMBtu .....pounds per million British thermal units
SCC.....Source Classification Codes
scfm.....standard cubic feet per minute
SIC .....Standard Industrial Classification
TPY .....tons per year
USEPA.....United States Environmental Protection Agency

Pollutants

PM.....particulate matter
PM_{10}.....particulate matter ten microns or less in diameter
SO_2.....sulfur dioxide
NO_x .....nitrogen oxides
VOC .....volatile organic compound
CO.....carbon monoxide
CO_2.....carbon dioxide
CO_2e.....carbon dioxide equivalent
HAP.....hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: MidAmerican Energy Company – Walter Scott Jr. Energy Center
Permit Number: 97-TV-001R4-M001
Facility Description: Electric Services (SIC 4911)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP-003	EU-003	WSEC 3 Boiler - Coal	75-A-357-P10
		WESC 3 Boiler - #2 Fuel Oil	
EP-006	EU-006	Dumper Building	03-A-436-P2
EP-009	EU-009	Transfer House #1 - Coal Conveying	78-A-169-S5
EP-010	EU-010	Transfer House #2 - Coal Conveying	03-A-438-P2
	EU-117A	Emergency Reclaim Hopper to Belt 8	
EP-011	EU-011	Transfer House #3 - Coal Conveying	78-A-171-S2
EP-013	EU-013	Transfer House #4 - Coal Conveying	03-A-439-P2
EP-014	EU-014	East Coal Silo #3 - Coal Conveying	78-A-174-S4
EP-015	EU-015	West Coal Silo #3 - Coal Conveying	78-A-175-S3
EP-018	EU-018	Ash Haul Road	03-A-425-P5 75-A-357-P10
EP-019	EU-019A	CCR Monofill Disposal	None
	EU-019B	CCR Monofill Grading	
	EU-019C	CCR Monofill Erosion	
EP-020	EU-020	Flyash Truck Loading #3	None
EP-025	EU-025	Glycol System Expansion Tank	None
EP-027	EU-027	Unit 3 Diesel Engine for Fire Pump	None
EP-030	EU-030	Stockout Conveyor 7 Coal Conveying	03-A-425-P5 78-A-169-S5
EP-031	EU-031A	Stacker/Reclaimer	03-A-425-P5
	EU-031B	Stacker/Reclaimer	
	EU-031C	Stacker/Reclaimer	
	EU-031D	Stacker/Reclaimer	
EP-114	EU-114	Unit 3 Emergency Generator	11-A-610
EP-117B	EU-117B	Emergency Reclaim Hopper - Coal Dumping	78-A-172-S1
EP-141	EU-141	Unit #4 Boiler - #2 Fuel Oil	03-A-425-P5
		Unit #4 Boiler – Sub-bituminous Coal	
EP-142	EU-142	Unit #4 AUX Boiler - Natural Gas	03-A-426-P2
EP-143	EU-143	Unit #4 Emergency Generator #2 Fuel Oil	03-A-428-P1
EP-144	EU-144	Unit #4 Diesel Fire Pump	03-A-429-P1
EP-145	EU-145	Unit #4 Cooling Tower	03-A-427-P1
EP-005	EU-005A	Coal Pile Bulldozing	03-A-425-P5
	EU-005B	Inactive Coal Pile	
	EU-005C	Active Coal Pile	
EP-151	EU-151	Rail Unloading Stockout	

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP-160	EU-160	Unit #4 Coal Silos	03-A-440-P2
EP-161	EU-161	Unit #4 Lime Storage Day Bin	07-A-385-P
EP-162A	EU-162A	Unit #4 Lime Exhauster #1	03-A-435-P1
EP-162B	EU-162B	Unit #4 Lime Exhauster #2	07-A-386-P
EP-163	EU-163	Unit #4 Lime Silo	03-A-434-P2
EP-164	EU-164	Unit #4 Urea Dissolver Tank	03-A-442-P2
EP-165A	EU-165A	Unit #4 Activated Carbon Silo	07-A-387-P
EP-165B	EU-165B	Unit #4 Activated Carbon Silo	07-A-388-P
EP-167	EU-167	Unit #4 Flyash/FGD Waste Silo	03-A-433-P3
EP-168	EU-168	Unit #4 Flyash/FGD Waste Exhauster#1	03-A-430-P2
EP-169	EU-169	Unit #4 Flyash/FGD Waste Exhauster#2	03-A-431-P2
EP-170	EU-170	Unit #4 Flyash/FGD Waste Exhauster#3	03-A-432-P2
EP-171	EU-171	Unit #4 Flyash/FGD Recycle Exhauster#1	07-A-389-P
EP-172	EU-172	Unit #4 Flyash/FGD Recycle Exhauster#2	07-A-390-P
EP-173	EU-173	Unit #4 Flyash/FGD Recycle Exhauster#3	07-A-391-P
EP-174	EU-174	Unit #4 Flyash/FGD Recycle Silo	07-A-392-P2
EP-180	EU-180	Unit #4 Water Treatment Area Lime Storage Silo A	07-A-393-P
EP-181	EU-181	Unit #4 Water Treatment Area Lime Storage Silo B	07-A-394-P
EP-182	EU-182	Unit #4 Water Treatment - Soda Ash Silo	07-A-395-P
EP-200	EU-200	Unit #3 Flyash/FGD Waste Silo	06-A-766-P1
EP-201	EU-201	Unit #3 Flyash/FGD Waste Exhauster#1	06-A-767-P1
EP-202	EU-202	Unit #3 Flyash/FGD Waste Exhauster#2	06-A-768-P1
EP-203	EU-203	Unit #3 Flyash/FGD Waste Exhauster#3	08-A-636-P
EP-204	EU-204	Unit #3 Lime Unloading Exhauster#1	06-A-769-P1
EP-205	EU-205	Unit #3 Lime Unloading Exhauster#2	06-A-770-P1
EP-207	EU-207	Unit #3 Lime Silo	06-A-772-P1
EP-208	EU-208	Unit #3 Recycle Ash Silo	06-A-773-P1
EP-209	EU-209	Unit #3 Flyash/FGD Recycle Exhauster#1	06-A-774-P1
EP-210	EU-210	Unit #3 Flyash/FGD Recycle Exhauster#2	06-A-775-P1
EP-211	EU-211	Unit #3 Flyash/FGD Recycle Exhauster#3	06-A-776-P1
EP-212	EU-212	Mercury (Hg) Control Sorbent Storage Silo	14-A-461-P1

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-26	Solvent Parts Cleaning
EU-122	Welding Operations
EU-123	Transfer House #3 Reject
EU-125	Bead Blaster Unit 3
EU-126	Bead Blaster Tech. Shop
EU-128	Unit 4 Oil/Water Separator
EU-129	Unit 3 Oil/Water Separator
EU-131	Unit 3 Emergency Generator Day Tank (175 gallon)
EU-132	Diesel Fuel AST
EU-133	Unleaded Gasoline AST
EU-146	Unit 4 Turbine Lube Oil System
EU-147	Unit 4 Emergency Generator Diesel Tank
EU-148	Unit 4 Fire Pump Diesel Tank
EU-149	Unit 4 Waste Ash Silo Loadout
EU-150	Unit 4 Bead Blaster
EU-212	Unit 3 Waste Ash Silo Loadout
EU-213	Unit 3 SDA Hopper Dump
EU-214	Unit 3 Lime Slurry Grit Screen Dump
EU-215	Unit 3 Recycle Ash Grit Screen Dump
EU-NR022	Fuel Oil Tank 301 (1MM Gallons)
EU-NR023	Fuel Oil Tank 302 (1MM Gallons)
EU-NR106	Used Lube Oil Vault (2,000 Gallons)
EU-NR107	Fire Pump Oil Tank (350 Gallons)
EU-NR109	Unit 3 Turbine Lube Oil Tank (15,800 Gallons)
EU-216	Diesel Fuel AST (20,000 Gallons)

II. Plant-Wide Conditions

Facility Name: MidAmerican Energy Company – Walter Scott Jr. Energy Center
Permit Number: 97-TV-001R4-M001

Permit conditions are established in accord with 567 Iowa Administrative Code rule 24.108.

Permit Duration

The term of this permit is: Five (5) years from permit issuance date
Commencing on: July 10, 2025
Ending on: July 9, 2030

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

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

Opacity (visible emissions): 40% opacity
Authority for Requirement: 567 IAC 23.3(2)"d"

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

Particulate Matter:
No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed on or after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.
For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from the equation provided in 23.3(2)"a"(2) or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be

used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizer or limestone.
4. Covering, at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.
6. Reducing the speed of vehicles traveling over on-property surfaces as necessary to minimize the generation of airborne dusts.

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

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40 CFR 60 Subpart A Requirements

This facility is an affected source and these General Provisions apply to the facility. The affected units are EP-003, EP-006, EP-009, EP-010, EP-011, EP-013, EP-014, EP-015, EP-117B, EP-114, EP-141 and EP-160. See Appendix B for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

Authority for Requirements: 40 CFR 60 Subpart A
567 IAC 23.1(2)

40 CFR 60 Subpart D Requirements

This facility is subject to Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971. The affected unit is EP-003. See Appendix B for the link of the Standard.

Authority for Requirements: 40 CFR 60 Subpart D
567 IAC 23.1(2) "a"

40 CFR 60 Subpart Da Requirements

This facility is subject to Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978. The affected unit is EP-141. See Appendix B for the link of the Standard.

Authority for Requirements: 40 CFR 60 Subpart Da
567 IAC 23.1(2) "z"

40 CFR 60 Subpart Y Requirements

This facility is subject to Standards of Performance for Coal Preparation Plants and Processing Plants. The affected units are EP-006, EP-009, EP-010, EP-011, EP-013, EP-014, EP-015, EP-117B and EP-160. See Appendix B for the link of the Standard.

Authority for Requirements: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

40 CFR 60 Subpart IIII Requirements

This facility is subject to Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The affected unit is EP-114. See Appendix B for the link of the Standard.

Authority for Requirements: 40 CFR 60 Subpart IIII
567 IAC 23.1(2) "yyy"

40 CFR 63 Subpart A Requirements

This facility is an affected source and these General Provisions apply to the facility. The affected units are EP-003, EP-027, EP-114, EP-141, EP-142, EP-143 and EP-144. See Appendix B for the link of the Standard.

Authority for Requirements: 40 CFR 63 Subpart A
567 IAC 23.1(4)

40 CFR 63 Subpart B Requirements

This facility is subject to Requirements for Control Technology Determinations for Major Sources in Accordance With Clean Air Act Sections, Sections 112(g) and 112(j). The affected unit is EP-141. See Appendix B for the link of the Standard.

Authority for Requirements: 40 CFR 63 Subpart B
567 IAC 23.1(4) "b"

40 CFR 63 Subpart ZZZZ Requirements
This facility is subject to National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ]. The affected units are EP-027, EP-114, EP-143 and EP-144. See Appendix B for the link of the Standard.
Authority for Requirements: 40 CFR 63 Subpart ZZZZ

40 CFR 63 Subpart DDDDD Requirements
This facility is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters (Boiler MACT) [40 CFR Part 63 Subpart DDDDD]. The affect unit is EP-142. See Appendix B for the link of the Standard.
Authority for Requirements: 40 CFR 63 Subpart DDDDD

40 CFR 63 Subpart UUUUU Requirements
This facility is subject to National Emission Standards for Hazardous Air Pollutants from Coal- and Oil-fired Electric Utility Steam Generating Units [40 CFR 63 Subpart UUUUU]. The affected units are EP-003 and EP-141. See Appendix B for the link of the Standard.
Authority for Requirements: 40 CFR 63 Subpart UUUUU

III. Emission Point-Specific Conditions

Facility Name: MidAmerican Energy Company – Walter Scott Jr. Energy Center
Permit Number: 97-TV-001R4-M001

Emission Point ID Number: EP-003

Associated Equipment
Associated Emission Unit ID Numbers: EU-003
Emissions Control Equipment ID: CE-003, CE-003A, CE-003B, CE-003C, CE-003D
Emissions Control Equipment Description: See Table-1 below
Continuous Emissions Monitors ID Numbers: See Table-2 below

Emission Unit vented through this Emission Point: EU-003
Emission Unit Description: WSEC 3 Boiler
Raw Material/Fuel: Subbituminous Coal; #2 Fuel Oil
Rated Capacity: 7,700 MMBtu/hr, 450 tph coal

Table-1

CE Number	Control Description
CE-003	Dry Electrostatic Precipitator (DESP)
CE-003A	Overfire Air-Low NO_x Burners (LNB)
CE-003B	Flue Gas Desulfurization (FGD)
CE-003C	Baghouse
CE-003D	Activated Carbon Injection (ACI)

Table-2

CEM	Pollutant Monitored	Date of Specification Test
ME-003A	SO_2	10-29-2008
ME-003AL	SO_2	6-1-2009
ME004B	NO_x	10-29-2008
ME004C	Diluent CO_2	10-29-2008
ME004D	Flow	10-29-2008
ME004E	Opacity	7-23-2004
ME004F	CO	1-9-2007

Applicable Requirements

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

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

Opacity:

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
10%	1-hr average	CEMS	DNR Construction Permit 75-A-357-P10	BACT
20% [(1)]	6-minutes average	CEMS	DNR Construction Permit 75-A-357-P10 40 CFR 60 Subpart D 567 IAC 23.1(2) "a"	None

[(1)]Opacity shall not exceed 20% (6-minute average), except for one (1) 6 minute period per hour of not more than 27% opacity.

Particulate Matter ($PM_{2.5}$):

Emission Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
0.025 lb/MMBtu	3-test run average	Stack Testing	DNR Construction Permit 75-A-357-P10	BACT
843.2 ton/yr	12-month rolling total[(1)]	Recordkeeping	DNR Construction Permit 75-A-357-P10	BACT
192.5 lb/hr	3-test run average	Stack Testing	DNR Construction Permit 75-A-357-P10	None

[(1)]The standard includes all periods of operation including periods of startup, shutdown, and malfunction (SSM).

Particulate Matter (PM_{10}):

Emission Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
0.027 lb/MMBtu	3-test run average	Stack Testing	DNR Construction Permit 75-A-357-P10	BACT
911 ton/yr	12-month rolling total[(1)]	Recordkeeping	DNR Construction Permit 75-A-357-P10	BACT
207.9 lb/hr	3-test run average	Stack Testing	DNR Construction Permit 75-A-357-P10	NAAQS

[(1)]The standard includes all periods of operation including periods of startup, shutdown, and malfunction (SSM).

Particulate Matter (PM):

Emission Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
State PM: 0.027 lb/MMBtu	3-test run average	Stack Testing	DNR Construction Permit 75-A-357-P10	BACT
State PM: 911 ton/yr	12-month rolling total [(1)]	Recordkeeping	DNR Construction Permit 75-A-357-P10	BACT
Federal PM: 43 ng/J heat input (0.10 lb/MMBtu)	3-test run average	Stack Testing	DNR Construction Permit 75-A-357-P10 40 CFR 60 Subpart D 567 IAC 23.1(2) "a"	NSPS

[(1)]The standard includes all periods of operation including periods of startup, shutdown, and malfunction (SSM).

Sulfur Dioxide (SO_2):

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
12,632.1 ton/yr	12-month rolling total	CEMS	DNR Construction Permit 75-A-357-P10	None
520 ng/J heat input[(1)] (1.2 lb/MMBtu)	3-hr rolling average	CEMS	DNR Construction Permit 75-A-357-P10 40 CFR 60 Subpart D 567 IAC 23.1(2) "a"	NSPS
770 lb/hr[(2)]	30-day rolling average	CEMS	DNR Construction Permit 75-A-357-P10 567 IAC 22.9(6)	Regional Haze

[(1)] Emission limit per 40 CFR §60.43(a)(2) when the unit is combusting solid fossil fuel or solid fossil fuel and wood residue. Per 40 CFR §60.43 alternative limits are:

- 340 ng/J heat input (0.80 lb/MMBTU) when combusting liquid fossil fuel or liquid fossil fuel and wood residue [40 CFR §60.43(a)(2)].
- Per 40 CFR §60.43(b), when different fossil fuels are combusted simultaneously in any combination, the applicable standard (in ng/J) shall be determined by proration using the following formula:

$$PS_{SO2} = \frac{[y(340) + z(520)]}{y+z}$$

Where:

PS_{SO2} = the prorated standard for SO_2 when burning different fuels simultaneously, in nanograms per joule (ng/J) heat input derived from all fossil fuels fired or from all fossil fuels and wood residue fired.

y = the percentage of total heat input derived from liquid fossil fuel

z = the percentage of total heat input derived from solid fossil fuel.

- Per 40 CFR §60.43(d), as an alternate to meeting the requirements of 40 CFR §60.43(a) and 40 CFR §60.43(b), an owner or operator can petition the Administrator (in writing) to comply with 40 CFR §60.43Da(i)(3) or comply with 40 CFR §60.42b(k)(4) as applicable to the affected source. If the Administrator grants the petition, the source will from then on (unless the unit is modified or reconstructed in the future) have to comply with the requirements in 40 CFR §60.43Da(i)(3) or 40 CFR §60.42b(k)(4) as applicable to the affected source.

Per 40 CFR §60.43(c), compliance shall be based on the total heat input from all fossil fuels burned, including gaseous fuels.

In addition, per 40 CFR §60.45(g)(2), excess emissions are defined as:

- For affected facilities electing not to comply with 40 CFR §60.43(d), any three (3) hour period during which the average emissions [arithmetic average of three (3) contiguous one (1) hour periods] of SO_2 as measured by a CEMS exceed the applicable standard in 40 CFR §60.43; or
- For affected facilities electing to comply with 40 CFR §60.43(d), any thirty (30) operating day period during which the average emissions [arithmetic average of all one (1) hour periods during the thirty (30) operating days) of SO_2 as measured by a CEMS exceed the applicable standard in 40 CFR §60.43. Facilities complying with the thirty (30) day SO_2 standard shall use the most current associated SO_2 compliance and monitoring requirements in 40 CFR §60.48Da and 40 CFR §60.49Da or 40 CFR §60.45b and 40 CFR §60.47b as applicable.

[(2)]Limit is applicable at all times including periods of Boiler 3 startup, shutdown, and malfunction

Nitrogen Oxides (NO_x):

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
6,547.5 ton/yr	12-month rolling total	CEMS	DNR Construction Permit 75-A-357-P10	None

300 ng/J heat input[(1)] (0.70 lb/MMBtu)	3-test run average	CEMS	DNR Construction Permit 75-A-357-P10 40 CFR 60 Subpart D 567 IAC 23.1(2) "a"	NSPS

[(1)] 300 ng/J = 0.70 lb/MMBTU. Emission limit per 40 CFR §60.43(a)(3) when the unit is combusting solid fossil fuel or solid fossil fuel and wood residue (except lignite or a solid fossil fuel containing 25%, by weight, or more of coal refuse). Per 40 CFR §60.44 alternative limits are:

- 86 ng/J heat input (0.20 lb/MMBTU) when combusting gaseous fossil fuel.
- 129 ng/J heat input (0.30 lb/MMBTU) when combusting liquid fossil fuel, liquid fossil fuel and wood residue, or gaseous fossil fuel and wood residue.
- liquid fossil fuel or liquid fossil fuel and wood residue [40 CFR §60.43(a)(2)].
- Per 40 CFR §60.44(b), when different fossil fuels are combusted simultaneously in any combination, the applicable standard (i PS_{NOx} = ıll be determined by proration using the following formula:

$$\frac{[w(260) + x(86) + y(130) + z(300)]}{w + x + y + z}$$

Where:

PS_{NOx} = the prorated standard for NO_x when burning different fuels simultaneously, in nanograms per joule (ng/J) heat input derived from all fossil fuels fired or from all fossil fuels and wood residue fired.

w = the percentage of total heat input derived from lignite

x = the percentage of total heat input derived from gaseous fossil fuel

y = the percentage of total heat input derived from liquid fossil fuel

z = the percentage of total heat input derived from solid fossil fuel.

- Per 40 CFR §60.44(e), as an alternate to meeting the requirements of 40 CFR §60.43(a) and 40 CFR §60.43(b), an owner or operator can petition the Administrator (in writing) to comply with 40 CFR §60.43Da(e)(3). If the Administrator grants the petition, the source will from then on (unless the unit is modified or reconstructed in the future) have to comply with the requirements in 40 CFR §60.43Da(e)(3).

In addition, per 40 CFR §60.45(g)(3), excess emissions are defined as:

- For affected facilities electing not to comply with 40 CFR §60.44(e), any three (3) hour period during which the average emissions [arithmetic average of three (3) contiguous one (1) hour periods] of SO_2 as measured by a CEMS exceed the applicable standard in 40 CFR §60.44; or
- For affected facilities electing to comply with 40 CFR §60.44(e), any thirty (30) operating day period during which the average emissions [arithmetic average of all one (1) hour periods during the thirty (30) operating days) of NO_x as measured by a CEMS exceed the applicable standard in 40 CFR §60.44. Facilities complying with the thirty (30) day NO_x standard shall use the most current associated NO_x compliance and monitoring requirements in 40 CFR §60.48Da and 40 CFR §60.49Da.

Carbon Monoxide (CO):

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
0.42 lb/MMBtu	Calendar-day[(1)] average	CEMS	DNR Construction Permit 75-A-357-P10	BACT
14,165 ton/yr	12-Month Rolling Total [(2)]	CEMS	DNR Construction Permit 75-A-357-P10	BACT
12,863 lb/hr	One-hour average	CEMS	DNR Construction Permit 75-A-357-P10	None

[(1)]Not including periods of SSM.

[(2)]The standard includes all periods of operation including periods of startup, shutdown, and malfunction (SSM).

Volatile Organic Compounds (VOC):

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
30.7 lb/hr	3-test run average	Stack Testing	DNR Construction Permit 75-A-357-P10	None

Carbon Dioxide (CO_2):

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
2,419 lb/MWh (net) [(1)(2)]	30-day rolling average	CEMS	DNR Construction Permit 75-A-357-P10	BACT

[(1)] Not including periods of startup, shutdown, and malfunction (SSM).

[(2)] MWh = megawatt-hour. MWh (net) shall be determined by subtracting the metered megawatt-hour value for station service from the metered megawatt-hour value for gross generation. Alternatively, net generation may be obtained directly from a power metering device for net generation, if the metering instrument is electrically equivalent to gross generation minus station service.

Carbon Dioxide equivalents (CO_2e)[(1)]:

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
7,223,389 tons/yr	NA	Recordkeeping	DNR Construction Permit 75-A-357-P10	BACT

[(1)]Compliance shall be determined by multiplying the mass of each greenhouse gas (GHG) as defined in 40 CFR §98.6 by its respective global warming potential (GWP) as defined in 40 CFR Part 98, Table A-1 and summing the results. The version of Table A-1 used shall be the version promulgated as of the October 30, 2009 which listed the following GWPs:

- CO_2 = 1
- CH_4 = 21
- N_2O = 310

The CO_2 mass emissions shall be obtained from the required CEMS and the mass emissions for methane (CH_4) and nitrous oxide (N_2O) shall be determined by the stack testing required in Condition 12 of Construction Permit 75-A-357-P10.

Operational Limits & Reporting/Record keeping Requirements

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

A. This unit shall be limited to firing coal, with fuel oil for startup

B. A bag leak detection system must be installed to meet the following criteria:
   (1) At least one detector must be located in each compartment of the baghouse.
   (2) The bag leak detection system must be installed, operated, calibrated and maintained in a manner consistent with the manufacturer's written specifications and recommendations and in accordance with the guidance provided in "Fabric Filter Bag Leak Detection Guidance", EPA-454/R-98-015, September 1997.
   (3) The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 10 milligrams per actual cubic meter or less.
   (4) The bag leak detection system sensor must provide output of relative or absolute

particulate matter loadings.

(5) The bag leak detection system must be equipped with a device to continuously record the output signal from the sensors.

(6) The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel.

(7) The system's instrumentation and alarm may be shared among detectors.

(8) The system's alarm shall sound no more than 5% of the operating time during a 6 month period.

C. The following records must be maintained from the bag leak detection system:

(1) The date, time and duration of each system alarm.

(2) The time corrective action was initiated and completed

(3) A brief description of the cause of the alarm and the corrective action

(4) A record of the percent of operating time during each 6 month period that the alarm sounds. In calculating the operating time percentage,

(i) If an inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted.

(ii) If corrective action is required, each alarm shall be counted as a minimum of 1 hour.

(iii)If it takes longer than 1 hour to initiate corrective action, the alarm time shall be counted as the actual amount of time taken to initiate corrective action.

D. The owner or operator is allowed, but not required, to combust coal which has been treated with chemicals to aid in mercury (Hg) emissions control. The following additives have been approved by the Department for use by the owner or operator:

(1) a mineral composite of calcium silicate components,

(2) other calcium compounds containing iron and aluminum,

(3) calcium bromide

(4) calcium chloride

(5) potassium iodide

E. The owner or operator is allowed, but not required, to add additives to the flue gas stream post-combustion to aid in mercury (Hg) emissions control. The following additives have been approved by the Department for use by the owner or operator:

(1) Copper sulfate

F. Prior to the use of any additional chemicals to aid in mercury (Hg) emissions control, the owner or operator shall supply material data to the Department for review and approval. This data shall include, but is not limited to:

(1) A description of the chemical additive

(2) Information demonstrating the potential impact on mercury emissions and any other HAPs regulated by an applicable state or federal standard, and

(3) An evaluation of the impact on all NSR regulated air emissions.

G. The owner or operator shall record if any mercury emissions control additives are used, what chemicals were used, and whether they were added pre- or post-combustion

H. The owner or operator is not required to operate the Electrostatic Precipitator (ESP, CE 003) as long as the owner or operator is able to demonstrate compliance with the emission limits listed above without the ESP in operation.

I. The owner or operator shall prepare a work practice manual documenting all efficiency

practices (i.e. a *"Work Practices Manual"*) at the facility, and submit the manual to the Department prior to the completion of construction of Project Number 13-466. This manual shall specifically address control equipment operation, boiler cleanliness practices (such as soot-blowing frequency), document the existing steam turbine design efficiency and combustion control optimizations at the plant, and all other efficiencies at the plant (Plant Number 78-01-025). The *Work Practices Manual* shall be implemented upon the later of the Department's review and approval or the completion of construction of Project Number 13-466. The *Work Practices Manual* shall be revised and submitted to the Department as necessary to document any proposed efficiency changes at the facility. The revised manual shall be implemented upon the Department's approval of the proposed changes.

J. The owner or operator shall submit excess emission and monitoring system performance reports to the Administrator semiannually for each six-month period in the calendar year, as required in 40 CFR 60.45(g). All semiannual reports shall be postmarked by the 30th day following the end of each six-month period. Each excess emission and MSDP report shall include the information required in 40 CFR 60.7(c).

K. The owner or operator is required to meet all applicable recordkeeping and reporting requirements under NSPS Subparts A and D.

Regional Haze Requirements

L. The owner or operator shall complete FGD Spray Scrubber (CE003B) enhancements to achieve the SO2 emission limit specified in the emission limits section above by December 31, 2023. (Completed 12/31/2023)
   i. The owner or operator shall maintain record of the completion date of FGD Spray Scrubber (CE003B) enhancements to achieve SO2 emission limit as specified in the emission limits section above.

M. Within 60 operating days after completion of FGD Spray Scrubber (CE003B) enhancements, the owner or operator shall conduct an SO2 emissions study to determine the minimum additive injection rate to achieve SO2 reduction of 72 percent below the average of 2017-2019 baseline emissions. The minimum additive injection rate shall be determined during varying boiler operating loads. The study shall also include development and identification of an averaging period for the minimum additive injection rate, if applicable.
   i. The owner or operator shall submit the SO2 study results to the Department for review and approval. (Submitted 6/27/2024. Approved 3/25/2025)
   ii. The owner or operator shall maintain the SO2 study results onsite and make the results available for inspection.

N. The owner or operator shall maintain the FGD Spray Scrubber (CE003B) minimum additive injection rate at the rates determined during the SO2 emissions study at corresponding boiler loads. The minimum additive injection rate shall be maintained at all times while Boiler 3 is in operation except during periods of boiler start-up.
   i. The owner or operator shall properly operate and maintain equipment to monitor the additive injection rate to the FGD Spray Scrubber (CE003B). The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per written facility specific operation and maintenance plan.

ii. The owner or operator shall continuously collect and record the additive injection rate to FGD Spray Scrubber (CE003B). The owner or operator shall calculate and record the additive injection rate based on the averaging period determined during the SO2 study, if applicable. If the additive injection rate to FGD Spray Scrubber (CE003B) falls below the value determined during the SO2 emissions study, the owner or operator shall investigate the FGD Spray Scrubber (CE003B) and make corrections to it. The owner or operator shall maintain a record of all corrective actions taken.

Authority for Requirement: DNR Construction Permit 75-A-357-P10

Additional operational limits and reporting/record keeping requirements from construction permit 75-A-357-P10 can be found under EP-018 and EP-019.

New Source Performance Standards (NSPS)

This emission unit is subject to Subparts A (General Provisions, 40 CFR §60.1 – 40 CFR §60.19) and D (Standards of Performance for Fossil-Fuel-fired Steam Generators for Which Construction Is Commenced After August 17, 1971; 40 CFR §60.40 – 40 CFR §60.46) of the New Source Performance Standards (NSPS).

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

This equipment is subject to the following federal regulation: *National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units* [40 CFR Part 63, Subpart UUUUU]. The unit is considered an existing coal fired EGU as defined in § 63.10042, within a subcategory.

Compliance Date:

Before July 6, 2027, if your coal-fired or solid oil derived fuel-fired EGU does not qualify as a LEE for total non-mercury HAP metals, individual non-mercury HAP metals, or filterable particulate matter (PM), you must demonstrate compliance through an initial performance test and you must monitor continuous performance through either use of a particulate matter continuous parametric monitoring system (PM CPMS), a PM CEMS, or, for an existing EGU, compliance performance testing repeated quarterly (40 CFR § 63.10000 (c)(1)(iv)(A)).

Before July 6, 2027, if your coal-fired or solid oil-derived fuel-fired EGU does not qualify as a LEE for hydrogen chloride (HCl), you may demonstrate initial and continuous compliance through use of an HCl CEMS, installed and operated in accordance with Appendix B to this subpart. As an alternative to HCl CEMS, you may demonstrate initial and continuous compliance by conducting an initial and periodic quarterly performance stack test for HCl. If your EGU uses wet or dry flue gas desulfurization technology (this includes limestone injection into a fluidized bed combustion unit), you may apply a second alternative to HCl CEMS by installing and operating a sulfur dioxide (SO2) CEMS installed and operated in accordance with part 75 of this chapter to demonstrate compliance with the applicable SO2 emissions limit (40 CFR § 63.10000 (c)(1)(v)).

Before July 6, 2027, if your coal-fired or solid oil-derived fuel-fired EGU does not qualify as a LEE for Hg, you must demonstrate initial and continuous compliance through use of a Hg CEMS

or a sorbent trap monitoring system, in accordance with appendix A to this subpart (40 CFR § 63.10000 (c)(1)(vi)).

On and after July 6, 2027, you may not pursue or continue to use the LEE option for your coal-fired or solid oil derived fuel-fired EGU for filterable PM or for non-mercury HAP metals. You must demonstrate compliance through an initial performance test, and you must monitor continuous performance with the applicable filterable PM emissions limit through the use of a PM CEMS or HAP metals CMS (40 CFR § 63.10000 (c)(1)(iv)(B)).

A. The owner or operator shall comply with the general compliance requirements of NESHAP Subpart UUUUU per 40 CFR §63.10000.
B. The owner or operator shall comply with the testing and initial compliance requirements of NESHAP Subpart UUUUU per 40 CFR §63.9984, §63.10005, §63.10006 and §63.10007.
C. The owner or operator shall comply with the continuous compliance requirements of NESHAP Subpart UUUUU per 40 CFR §63.10010, §63.10011, §63.10020 and §63.10021.
D. The owner or operator shall comply with the notification, reports, and records requirements of NESHAP Subpart UUUUU per 40 CFR §63.10030 through §63.10033.
E. The owner or operator shall comply with the applicable general provisions of NESHAP Subpart A as required per 40 CFR §63.10040.

Authority for Requirement: 40 CFR 63 Subpart UUUUU

Acid Rain:

The facility (plant number 78-01-026) is considered an affected source under 40 CFR 72, 73, 75, 76, 77, and 78 definitions as emission units at this source are subject to the acid rain emission reduction requirements or the acid rain emission limitations, as adopted by the Department by reference (See 567 IAC 24.120 – 567 IAC 24.148). This emission unit is subject to the SO_2 allowance allocation, NO_x emission limitations, and monitoring provisions of the federal acid rain program.

Authority for Requirement: DNR Construction Permit 75-A-357-P10

Cross-State Air Pollution Rule (CSAPR) (a.k.a., Transport Rule (TR))

Pollutant: Nitrogen Oxides (NO_x) Annual, Nitrogen Oxides (NO_x) Ozone Season Group 2, Sulfur Dioxide (SO_2) Group 1

Emission Limits: Nitrogen Oxides and Sulfur Dioxide Allowances

Authority for Requirement: 40 CFR Part 97 (See appendix for requirements)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 550
Stack Opening, (inches, dia.): 300
Exhaust Flow Rate (scfm): 2,100,000
Exhaust Temperature (°F): 250
Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 75-A-357-P10

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

Monitoring Requirements

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

Stack Testing

Pollutant – Particulate Matter (PM and PM10)

- 1st Stack Test to be completed within 12-months of permit issuance: 7/9/2026
- 2nd Stack Test to be completed between 30 months and 42 months from permit issuance: 1/9/2028 – 1/9/2029

Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51 Appendix M Method 202or approved alternative test method for PM10

Authority for Requirement – 567 IAC 24.108(3)

Continuous Emission Monitoring

The following continuous emission monitoring requirements apply to this emission point and its associated emission unit(s) and control equipment:

A. The following monitoring systems are required:

- *Opacity:*
  In accordance with 40 CFR §60.45(a), the owner or operator shall install, calibrate, maintain, and operate a continuous opacity monitoring system (COMS) and record the output of the system, for measuring the opacity of emissions discharged to the atmosphere except as provided under 40 CFR §60.45(b).

  The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 1 (PS1).

  Per 40 CFR §60.45(b)(5), the owner or operator may petition the Administrator (in writing) to install a PM CEMS as an alternative to the CEMS for monitoring opacity emissions.

- *SO_2:*
  In accordance with 40 CFR §60.45(a), the owner or operator shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) and record

the output of the system, for measuring sulfur dioxide (SO_2) emissions, except as provided by 40 CFR §60.45(b).

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

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

- *NO_x:*
  In accordance with 40 CFR §60.45(a), the owner or operator shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) and record the output of the system, for measuring nitrogen oxide (NO_x) emissions, except as provided by 40 CFR §60.45(b).

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

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

- *O_2 or CO_2:*
  In accordance with 40 CFR §60.45(a), the owner or operator shall install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring the oxygen (O_2) or carbon dioxide (CO_2) content of the flue gases at each location where SO_2 or NO_x emissions are monitored.

- *CO:*
  Compliance with the carbon monoxide (CO) emission limits of this permit shall be continuously demonstrated by the owner or operator through the use of a CEMS. Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring CO emissions discharged to the atmosphere and record the output of the system.
  The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 4A (PS4A) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

- *Wattmeter:*

The owner or operator shall install, calibrate, maintain, and operate a wattmeter; measure gross electrical output in megawatt-hour on a continuous basis; and record the output of the monitor for demonstrating compliance with the output-based standard.

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

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

B. The CEMS required in DNR Construction Permit 75-A-357-P10, for SO_2, NO_x, and either O_2 or CO_2 shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.
C. The following data requirements shall apply to all CEMS for non-NSPS emission standards in this permit:
   (1) The CEMS required by this permit shall be operated and data recorded during all periods of operation of the emission unit except for CEM breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.
   (2) The 1-hour average SO_2, NO_x, CO, and CO_2 emission rates measured by the CEMS required by this permit shall be used to calculate compliance with the emission standards of this permit. At least 2 data points must be used to calculate each 1-hour average.
   (3) For each hour of missing emission data (NO_x, SO_2, CO, or CO_2), the owner or operator shall substitute data by:
      (i) If the monitor data availability is equal to or greater than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:
         (a) For the missing data period less than or equal to 24 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
         (b) For a missing data period greater than 24 hours, substitute the greater of:
            - The 90^{th} percentile hourly concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
            - The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

(ii) If the monitor data availability is at least 90.0% but less than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:
   (a) For a missing data period of less than or equal to 8 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
   (b) For the missing data period of more than 8 hours, substitute the greater of:
      - The 95th percentile hourly pollutant concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
      - The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

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

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

Authority for Requirement – DNR Construction Permit 75-A-357-P10

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Compliance Assurance Monitoring Plan for EP-003

I. Background

A. Emissions Unit:

Description:	WSEC Boiler 3, Wall-fired, Dry-Bottom Pulverized Coal Unit
Identification:	EU-003
Facility:	MidAmerican Energy Co. – Walter Scott, Jr. Energy Center

B. Applicable Regulation, Emission Limit, and Monitoring Requirements:

Regulation No.:	Construction Permit 75-A-357-P10
Particulate Emission Limit:	0.027 lb/MMBtu; 43 ng/J Heat Input; 911 ton/yr
Opacity Emission Limit:	10%, 20%
Current Monitoring Requirements:	Alarm of the Bag Leak Detection System

C. Control Technology: Fabric Filter

II. Monitoring Approach

A. Indicator
An alarm system will be used as an indicator.

B. Measurement Approach
The alarm system will sound automatically when an increase in related particulate matter emissions over a preset level is detected

C. Indicator Range
The alarm system shall sound no more than 5% of the operating time during a 6-month period.

D. Performance Criteria

Data representativeness:	The alarm system will sound when the particulate matter emissions increase over the predetermined parameter.
Verification of operational status:	The bag leak record will be kept for five years.
QA/QC practices and criteria:	At least one detector must be located in compartment of the baghouse; The bag leak detection system must be installed, operated, calibrated and maintained in a manner consistent with the guidance provided in "Fabric Filter Bag Leak Detection Guidance", EPA-454/R-98-015, September 1997; The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 10 milligrams per actual cubic meter or less;

	The bag leak detection system sensor must provide output of relative or absolute particulate matter loadings; The bag leak detection system must be equipped with a device to continuously record the output signal from the sensors; The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel. The system's instrumentation and alarm may be share among detectors; The system's alarm shall sound no more than 5% of the operating time during a 6-month period.
Monitoring frequency and data Collection procedure:	The bag leak detection system shall operate continuously. Records of the readings shall be maintained for five years.

Emission Point ID Number: EP-006

Associated Equipment
Associated Emission Unit ID Numbers: EU-006
Emissions Control Equipment ID Number: CE-006
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-006
Emission Unit Description: Rotary Car Dumper
Raw Material/Fuel: Coal
Rated Capacity: 3,500.0 ton/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 5%[(1)]
Authority for Requirement: DNR Construction Permit 03-A-436-P2
[(1)] Standard is a 1-hr average.

Pollutant: Opacity
Emission Limit(s): 20%[(2)]
Authority for Requirement: DNR Construction Permit 03-A-436-P2
40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"
[(2)] Averaging period is six (6) minutes

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.005 gr/dscf; 6.43 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-436-P2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.005 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-436-P2

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

Operating Limits

A. The facility is required to schedule a PM_{10} compliance test within thirty (30) days if it exceeds the one (1) hour, 5% BACT opacity limit.
B. Fugitive emissions shall be controlled by applying a chemical dust suppressant.

Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition R in the section of *Reporting and Recordkeeping* shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.

C. If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

D. The application of chemical dust suppressant is not required when rail unloading is done directly from the train to the plant silos without first depositing to a pile.

Authority for Requirement: DNR Construction Permit 03-A-436-P2 & 03-A-425-P5

Reporting and Recordkeeping

A. Rail unloading:

(i) Records of the applications shall be maintained and shall include:

- The dates of each application;
- The chemical dust suppressant used;
- The application intensity (gal/yd^2);
- Dilution ratio;
- The operator's initials, and
- Documentation of weather conditions, if necessary.

(ii) If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation

Authority for Requirement: DNR Construction Permit 03-A-425-P5

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 90
Stack Opening, (inches, dia.): 82
Exhaust Flow Rate (scfm): 150,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-436-P2

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

Monitoring Requirements

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

Stack Testing:

Pollutant - PM
Stack Test to be Completed by (date) – 7/9/2027
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51 Appendix M Method 202
Authority for Requirement – 567 IAC 24.108(3)

Pollutant – PM_{10}
Stack Test to be Completed by (date) – 7/9/2027
Test Method - 40 CFR 51, Appendix M, 201A with 202
Authority for Requirement – 567 IAC 24.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
See Appendix A for the CAM Plan.
Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-009

Associated Equipment
Associated Emission Unit ID Numbers: EU-009
Emissions Control Equipment ID Number: CE-010
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-009
Emission Unit Description: Transfer House #1 – Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 3,500.0 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.
Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: DNR Construction Permit 78-A-169-S5
40 CFR 60 Subpart Y
567 IAC 23.1(2)"v"

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.31 lb/hr; 0.005 gr/dscf
Authority for Requirement: DNR Construction Permit 78-A-169-S5

Pollutant: Particulate Matter (PM)
Emission Limit(s): 1.31 lb/hr; 0.005 gr/dscf; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 78-A-169-S5
567 IAC 23.3(2)"a"

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

Operating Limits

A. Maintain Baghouse (CE-010) according to manufacturer specifications and maintenance schedule.

Reporting and Recordkeeping

A. Maintain a record of all inspections/maintenance and any action resulting from the inspection/maintenance of Baghouse (CE-010).

Authority for Requirement: DNR Construction Permit 78-A-169-S5

NSPS and NESHAP Applicability
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.
Authority for Requirement: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 74
Stack Opening, (inches, dia.): 35.04
Exhaust Flow Rate (scfm): 30,600
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 78-A-169-S5

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

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

Stack Testing:

Pollutant - PM
Stack Test to be Completed by (date) – 7/9/2027
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51 Appendix M Method 202
Authority for Requirement – 567 IAC 24.108(3)

Pollutant – PM_{10}
Stack Test to be Completed by (date) – 7/9/2027
Test Method - 40 CFR 51, Appendix M, 201A with 202
Authority for Requirement – 567 IAC 24.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
See Appendix A for the CAM Plan.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-010

Associated Equipment
Associated Emission Unit ID Numbers: EU-010; EU-117A
Emissions Control Equipment ID Number: CE-011
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-010	EU-010	Transfer House #2 - Coal Conveying	Coal	3,200.0 ton/hr
	EU-117A	Emergency Reclaim Hopper to Belt 8		1,200.0 ton/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: DNR Construction Permit 03-A-438-P2

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: DNR Construction Permit 03-A-438-P2
40 CFR 60 Subpart Y
567 IAC 23.1(2)"v"

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.05 lb/hr; 0.0037 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-438-P2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.0037 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-438-P2

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

Operating limits are not required at this time.

NSPS and NESHAP Applicability
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.
Authority for Requirement: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

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

Stack Height, (ft, from the ground): 56
Stack Opening, (inches, dia.): 39
Exhaust Flow Rate (scfm): 24,500
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-438-P2

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

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

Stack Testing:
Pollutant - PM
Stack Test to be Completed by (date) – 7/9/2027
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51 Appendix M Method 202
Authority for Requirement – 567 IAC 24.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒
Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒
Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
See Appendix A for the CAM Plan.
Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-011

Associated Equipment
Associated Emission Unit ID Numbers: EU-011
Emissions Control Equipment ID Number: CE-012
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-011
Emission Unit Description: Transfer House #3 - Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 3,200.0 ton/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): No VE
Authority for Requirement: DNR Construction Permit 78-A-171-S2

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: DNR Construction Permit 78-A-171-S2
40 CFR 60 Subpart Y
567 IAC 23.1(2)"v"

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 2.35 lb/hr
Authority for Requirement: DNR Construction Permit 78-A-171-S2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 78-A-171-S2
567 IAC 23.3(2)"a"

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

Operating Limits

A. The baghouse shall be operated and maintained according to the manufacturer's recommendations.

Reporting and Recordkeeping

A. A log of all maintenance activities on the baghouse shall be maintained. This log shall include the date and a description of the activity undertaken.
B. An observation of this emission point shall be made once weekly while operating.
C. A log of the emission point observation shall be maintained. This log shall include the time and date of each observation, identification of the person making the observations and whether any visible emissions were observed.

Authority for Requirement: DNR Construction Permit 78-A-171-S2

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.
Authority for Requirement: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 12
Stack Opening, (inches, dia.): 35
Exhaust Flow Rate (scfm): 21,200
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 78-A-171-S2

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

Monitoring Requirements

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

Stack Testing:

Pollutant – PM_{10}
Stack Test to be Completed by (date) – 7/9/2027
Test Method - 40 CFR 51, Appendix M, 201A with 202
Authority for Requirement – 567 IAC 24.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
See Appendix A for the CAM Plan.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-013

Associated Equipment
Associated Emission Unit ID Numbers: EU-013
Emissions Control Equipment ID Number: CE-013
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-013
Emission Unit Description: Transfer House #4 - Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 3,600.0 ton/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 5%[(1)]
Authority for Requirement: DNR Construction Permit 03-A-439-P2
[(1)] Standard is a 1-hour average.

Pollutant: Opacity
Emission Limit(s): 20%[(2)]
Authority for Requirement: DNR Construction Permit 03-A-439-P2
40 CFR 60 Subpart Y
567 IAC 23.1(2)"v"
[(2)] Average period is six (6) minutes.

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.14 lb/hr; 0.005 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-439-P2

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.005 gr/dscf
Authority for Requirement: DNR Construction Permit 03-A-439-P2

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The facility is required to schedule a PM_{10} compliance test within thirty (30) days if it exceeds the one (1) hour, 5% BACT opacity limit.

Authority for Requirement: DNR Construction Permit 03-A-439-P2

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 50
Stack Opening, (inches, dia.): 39
Exhaust Flow Rate (scfm): 26,500
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-439-P2

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

Monitoring Requirements

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

Stack Testing:

Pollutant - PM
Stack Test to be Completed by (date) – 7/9/2027
Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51 Appendix M Method 202
Authority for Requirement – 567 IAC 24.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
See Appendix A for the CAM Plan.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-014

Associated Equipment
Associated Emission Unit ID Numbers: EU-014
Emissions Control Equipment ID Number: CE-014
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-014
Emission Unit Description: East Coal Silo #3 - Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 3,200.0 ton/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 20% [(1)]
Authority for Requirement: DNR Construction Permit 78-A-174-S4
40 CFR 60 Subpart Y
567 IAC 23.1(2)"v"

[(1)]If visible emissions are observed, the owner/operator shall promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 1.14 lb/hr
Authority for Requirement: DNR Construction Permit 78-A-174-S4

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 78-A-174-S4
567 IAC 23.3(2)"a"

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

Operational limits are not required at this time.

NSPS and NESHAP Applicability
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.
Authority for Requirement: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

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

Stack Height, (ft, from the ground): 218
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 26,550
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 78-A-174-S4

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

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
See Appendix A for the CAM Plan.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-015

Associated Equipment
Associated Emission Unit ID Numbers: EU-015
Emissions Control Equipment ID Number: CE-015
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-015
Emission Unit Description: West Coal Silo #3 - Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 3,200.0 ton/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 20% (1)
Authority for Requirement: DNR Construction Permit 78-A-175-S3
40 CFR 60 Subpart Y
567 IAC 23.1(2)"v"

(1) If visible emissions are observed, the owner/operator shall promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.98 lb/hr
Authority for Requirement: DNR Construction Permit 78-A-175-S3

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 78-A-175-S3
567 IAC 23.3(2)"a"

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

Operating Limits
Operational limits are not required at this time.

NSPS and NESHAP Applicability
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.
Authority for Requirement: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 218
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 22,850
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 78-A-175-S3

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

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

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

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

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
See Appendix A for the CAM Plan.

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-018

Associated Equipment
Associated Emission Unit ID Numbers: EU-018
Emissions Control Equipment ID Number: CE-019
Emissions Control Equipment Description: Water Spray/Sweeping & Dust Suppressant
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-018
Emission Unit Description: CCR Haul Road
Raw Material/Fuel: CCR Material
Rated Capacity: 80 Trucks per Day

Applicable Requirements

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

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.
Authority for Requirement: 567 IAC 23.3(2)"c"

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

A. Trucks which haul either ash or sludge shall either be covered with a tarp or enclosed.
B. The following conditions (except Condition 4) are required on the haul roads at the facility (plant number 78-01-026) in order for the roads to meet the BACT emission rates:
   (1) Haul truck loads shall be enclosed or covered
   (2) The maximum silt content shall not exceed 2.8 g/m^2. See Condition 12 for testing requirements.
   (3) In order to protect the NAAQS, the maximum number of trucks associated with ash and FGD hauling (all units) shall not exceed 80 trucks per day.
   (4) For paved roads:
      (i) Fugitive emissions of paved haul roads shall be controlled to an effective control efficiency of 80% by either water flushing followed by sweeping or using a street sweeper that is certified to achieve a pick-up efficiency of 80%. The control and record keeping requirements described in Condition 15.Q. shall begin at the same time as the startup of Boiler 4. The control efficiency of 80% shall be achieved by either using a certified sweeper once per day or by water flushing followed by

sweeping of the paved haul roads once per day. The water spray rate shall be a minimum of 0.23 gallons per square yard.

(ii) If water flushing followed by sweeping cannot be accomplished because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35^0 F (1.7^0 C) or conditions due to weather, in combination with the application of the water, could create hazardous driving conditions, then the water flushing and sweeping shall be postponed and accomplished as soon after the scheduled date as the conditions preventing the application have abated.

(iii) Water flushing and sweeping need not occur when a rain gage located at the site indicates that at least 0.2 inches of precipitation (water equivalent) has occurred within the preceding 24-hr time period or the paved road(s) will not be used on a given day.

(5) For unpaved roads:

(i) Fugitive emissions from unpaved haul roads shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition 15.Q. shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained on all haul roads. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.

(ii) If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35^0 F (1.7^0 C) or conditions due to weather, in combination with the application of the chemical dust suppressant**,** could create hazardous driving conditions, then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

Reporting and Recordkeeping

A. The owner or operator shall keep a log showing the following for haul roads:

(1) The date and number of trucks associated with Units 1, 2, 3 and 4.

(2) Paved roads:

(i) Records of either the use of a certified sweeper or the applications shall be maintained and shall include:

- The dates of each application or use of certified sweeper,
- The amount of water applied (if applicable),
- The areas treated or swept by certified sweeper, and
- The operator's initials.

(ii) If water is to be used and is not applied when scheduled then the records should so indicate and provide and an explanation.

(3) Unpaved roads:

(i) Records of the applications shall be maintained and shall include:
- The dates of each application,
- The chemical dust suppressant used,
- The application intensity (gal/yd^2),
- Dilution ratio,
- The operator's initials, and
- Documentation of road and weather conditions, if necessary.

(ii) If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation.

Authority for Requirement: DNR Construction Permit 03-A-425-P5; 75-A-357-P10

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-019

Associated Equipment
Associated Emission Unit ID Numbers: EU-019A, EU-019B, EU-019C
Emissions Control Equipment ID Number: CE-020
Emissions Control Equipment Description: Water Spray
Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-019	EU-019A	CCR Monofill Disposal	CCR Material	80 Trucks per Day
	EU-019B	CCR Monofill Grading	CCR Material	NA
	EU-019C	CCR Monofill Erosion	CCR Material	122 Acres

Applicable Requirements

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

Fugitive Dust:
No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.
Authority for Requirement: 567 IAC 23.3(2) "c"

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

A. The waste material collected by the fabric filter and stored in the FGD waste silo system shall be processed through a pug-mill during loadout to increase the material moisture content to a minimum of 20%. Water wagons shall be used to wet the waste material during disposal site grading activities. This requirement does not apply to waste material being sold for beneficial use.

Authority for Requirement: DNR Construction Permits 03-A-425-P5 & 75-A-357-P10

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

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

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒
Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒
Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-020

Associated Equipment
Associated Emission Unit ID Numbers: EU-020
Emissions Control Equipment ID Number: CE-021
Emissions Control Equipment Description: Overtube with Suction
Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-020	EU-020	Flyash Truck Loading #3	Flyash	100.0 ton/hr

Applicable Requirements

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

Fugitive Dust:
No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.
Authority for Requirement: 567 IAC 23.3(2) "c"

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

Operational limits are not required at this time.

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-025

Associated Equipment
Associated Emission Unit ID Numbers: EU-025
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-025
Emission Unit Description: Glycol System Expansion Tank
Raw Material/Fuel: Ethylene Glycol
Rated Capacity: 0.20 gal/hr

Applicable Requirements

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

Emission limits are not required at this time.

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

Operational limits are not required at this time.

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-027

Associated Equipment
Associated Emission Unit ID Numbers:
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-027
Emission Unit Description: Diesel Engine for Fire Pump
Raw Material/Fuel: Diesel
Rated Capacity: 370 HP

Applicable Requirements

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

Emission limits are not required at this time.

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

Operational limits are not required at this time.

NESHAP:
The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(ii) this compression ignition emergency engine, located at a major source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

Compliance Date
Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or within 1 year + 30 days, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or within 1 year + 30 days, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or 1 year + 30 days, whichever comes first, and replace as necessary.

4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE.
2. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. See 40 CFR 63.6655(f) for additional information.

Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2c to Subpart ZZZZ

1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒
Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒
Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒
Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-030 and EP-031 (Coal Handling)

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-030	EU-030	Stockout Conveyor 7 Coal Conveying	Coal	3500 ton/hr
EP-031	EU-031A	Stacker/Reclaimer	Coal	3500 ton/hr
	EU-031B	Stacker/Reclaimer	Coal	3500 ton/hr
	EU-031C	Stacker/Reclaimer	Coal	3500 ton/hr
	EU-031D	Stacker/Reclaimer	Coal	1600 ton/hr

EP	EU	Emission Unit Description	Control Equipment	DNR Construction Permit
EP-030	EU-030	Stockout Conveyor 7 Coal Conveying	CE005: Dust Suppressant	03-A-425-P5 78-A-169-S5
EP-031	EU-031A	Stacker/Reclaimer	CE-005: Dust Suppressant	03-A-425-P5
	EU-031B	Stacker/Reclaimer		
	EU-031C	Stacker/Reclaimer		
	EU-031D	Stacker/Reclaimer		

Applicable Requirements

Operational Limits & Reporting/Record keeping Requirements

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

The following conditions are required on the following volume source fugitive emissions at the facility (plant number 78-01-026) for this project in order for these sources of emissions to meet the BACT emission rates:

A. Stacker conveyor:

1. Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition R in the section of *Reporting and Recordkeeping* shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.
2. If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.
3. The application of chemical dust suppressant is not required when rail unloading

directly from the train to the plant silos without first depositing to a pile.

B. Transfer to active pile:
   1. Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition R in the section of Reporting and Recordkeeping shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.
   2. If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

C. Bucket reclaim:
   1. Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition R in the section of Reporting and Recordkeeping shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.
   2. If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

Authority for Requirement: DNR Construction Permits 03-A-425-P5 & 78-A-169-S5

Reporting and Recordkeeping

The owner or operator shall keep a log showing the following for the volume sources associated with this project:

A log showing the following for the volume sources associated with this project:

A. Stacker conveyor:
   1. Records of the applications shall be maintained and shall include:
      - The dates of each application,

- The chemical dust suppressant used,
- The application intensity (gal/yd^2),
- Dilution ratio,
- The operator's initials, and
- Documentation of weather conditions, if necessary.

2. If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation.

B. Transfer to active pile:
1. Records of the applications shall be maintained and shall include:
   - The dates of each application;
   - The chemical dust suppressant used;
   - The application intensity (gal/yd^2);
   - Dilution ratio;
   - The operator's initials, and
   - Documentation of weather conditions, if necessary.
2. If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation.

C. Bucket reclaim:
1. Records of the applications shall be maintained and shall include:
   - The dates of each application;
   - The chemical dust suppressant used;
   - The application intensity (gal/yd^2);
   - Dilution ratio;
   - The operator's initials, and
   - Documentation of weather conditions, if necessary.
2. If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation

Authority for Requirement: DNR Construction Permits 03-A-425-P5 & 78-A-169-S5

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-114

Associated Equipment
Associated Emission Unit ID Numbers: EU-114
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-114
Emission Unit Description: Unit 3 Emergency Generator
Raw Material/Fuel: #2 Fuel Oil
Rated Capacity: 1,214 Brake Horsepower

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 40%[(1)]
Authority for Requirement: DNR Construction Permit 11-A-610
567 IAC 23.3(2)"d"

[(1)]An exceedance of the indicator opacity of "10%" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.12 lb/hr
Authority for Requirement: DNR Construction Permit 11-A-610

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.12 lb/hr; 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 11-A-610
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 0.01 lb/hr
Authority for Requirement: DNR Construction Permit 11-A-610

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 13.86 lb/hr
Authority for Requirement: DNR Construction Permit 11-A-610

Pollutant: Carbon Monoxide (CO)
Emission Limit(s): 0.62 lb/hr
Authority for Requirement: DNR Construction Permit 11-A-610

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. This engine is limited to burning diesel fuel oil only.
B. This engine is limited to operating a maximum of 5,685 hours in any rolling 12-month period.
C. This engine is limited to operating for emergency situations and required testing and maintenance. In accordance with §60.4211(e), the engine is limited to operating a maximum of 100 hours per year for maintenance checks and readiness testing. This engine is not allowed to operate as a peak shaving unit.
D. In accordance with §60.4207(b), the diesel fuel purchased for use in this engine shall meet the following specifications from 40 CFR 1090.305for nonroad diesel fuel:
    1. a maximum sulfur content of 15 ppm (0.0015%) by weight; and
    2. a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.
E. In accordance with §60.4209(a), the engine shall be equipped with a non-resettable hour meter.
F. In accordance with §60.4211(a), this engine shall be operated and maintained in accordance with the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the manufacturer. The owner or operator may only change engine settings that are permitted by the manufacturer.

Reporting and Recordkeeping

A. The owner or operator shall maintain the following monthly records:
    1. the total number of hours that the engine operated;
    2. the number of hours that the engine operated for maintenance checks and readiness testing; and
    3. the rolling 12-month total amount of the number of hours that the engine operated.
B. The owner or operator shall maintain an annual record of the number of hours that the engine operated for maintenance checks and readiness testing.
C. The owner or operator of the engine shall comply with the requirements of Condition D listed in *Operating Limits* by one of the following methods:
    1. have the fuel supplier certify that the fuel delivered meets the definition of non-road diesel fuel as defined in 40 CFR 1090.305;
    2. obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
    3. perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.

Authority for Requirement: DNR Construction Permit 11-A-610

NSPS and NESHAP Applicability

A. This engine is subject to NSPS Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
The engine is an emergency stationary internal combustion engine that is not a fire pump engine.

1. In accordance with §60.4211(c), the engine must be certified by its manufacturer to comply with the emissions standards from §60.4205 (b) and §60.4202 (a)(2). The emission standards that the engine must be certified by the manufacturer to meet are:

Pollutant	**Emission Standard**	**Basis**
Particulate Matter (PM)	0.20 grams/kW-hr	§89.112 Table 1
NMHC [(1)] + NO_x	6.4 grams/kW-hr	§89.112 Table 1
Carbon Monoxide (CO)	3.5 grams/kW-hr	§89.112 Table 1
Opacity – acceleration mode	20%	§89.113 (a)(1)
Opacity – lugging mode	15%	§ 89.113 (a)(2)
Opacity – peaks in acceleration or lugging modes	50%	§ 89.113 (a)(3)

[(1)] Non-methane hydrocarbon

2. In accordance with §60.4211(c), the owner or operator must comply with the required NSPS emissions standards by purchasing an engine certified by its manufacturer to meet the applicable emission standards for the same model year and engine power. The engine must be installed and configured to the manufacturer's specifications. Provided these requirements are satisfied, no further demonstration of compliance with the emission standards from §60.4205 (b) and §60.4202 (a)(2) is required.

B. This equipment is subject to National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63, Subpart ZZZZ].

Authority for Requirement: 40 CFR 60 Subpart IIII
40 CFR 63 Subpart ZZZZ
567 IAC 23.1(2) "yyy"
567 IAC 23.1(4) "cz"

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

Stack Height, (ft, from the ground): 48.75
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 2,265
Exhaust Temperature (°F): 955
Discharge Style: Horizontal Discharge
Authority for Requirement: DNR Construction Permit 11-A-610

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-117B

Associated Equipment
Associated Emission Unit ID Numbers: EU-117B
Emissions Control Equipment ID Number: CE-005
Emissions Control Equipment Description: Dust Suppressant
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-117B
Emission Unit Description: Emergency Reclaim Hopper – Coal Dumping
Raw Material/Fuel: Coal
Rated Capacity: 1,200 ton/hour

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: DNR Construction Permit 78-A-172-S1
567 IAC 23.1(2)"v"
40 CFR 60 Subpart Y

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.17 lb/hr
Authority for Requirement: DNR Construction Permit 78-A-172-S1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

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

There are no operational limits or reporting/record keeping requirements at this time.

NSPS and NESHAP Applicability
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.
Authority for Requirement: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-141

Associated Equipment
Associated Emission Unit ID Numbers: EU-141
Emissions Control Equipment ID Number: CE-141A, CE-141B, CE141C, CE141D, CD141E
Emissions Control Equipment Description: See Table-1 below
Continuous Emissions Monitors ID Numbers: See Table-2 below

Emission Unit vented through this Emission Point: EU-141
Emission Unit Description: WSEC 4 Boiler
Raw Material/Fuel: Subbituminous Coal; #2 Fuel Oil
Rated Capacity: 7,675 MMBtu/hr

Table -1

CE Number	Control Description
CE-141A	Baghouse
CE-141B	Selective Catalytic Reduction (SCR)
CE-141C	Flue Gas Desulfurization (FGD)
CE-141D	Low NO_x Burner (LNB)
CE-141E	Activated Carbon Injection (ACI)

Table -2

CEM	Pollutant Monitored	Date of Specification Test
ME004A	SO_2	2007-04-27
ME004AL	SO_2	2007-04-27
ME004B	NO_x	2007-04-27
ME004BL	NO_x	2007-04-27
ME004C	Diluent CO_2	2007-04-27
ME004D	Flow	2007-04-27
ME004E	Opacity	2007-04-27
ME004F	CO	2007-04-27
ME004FL	CO	2007-04-27
ME004G	SO_2	2007-04-27
ME004H	Diluent CO_2	2007-04-27

Applicable Requirements

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

Opacity:

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
5%	3-hour average	COMS	DNR Construction Permit 03-A-425-P5	BACT

20%[1]	6-Minute Average	COMS	DNR Construction Permit 03-A-425-P5 40 CFR 60 Subpart Da 567 IAC 23.1(2) "z"	None

(1) Opacity shall not exceed 20% (6-minute average), except for one (1) 6-minute period per hour of not more than 27% opacity. See 40 CFR §60.42Da(b).

Particulate Matter (PM_{10}):

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.025 lb/MMBtu	3-Test Run	Stack Testing	DNR Construction Permit 03-A-425-P5	BACT
191.9 lb/hr	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-425-P5	NAAQS

Particulate Matter (PM):

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
State PM: 0.027 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-425-P5	BACT
Federal PM: 13 ng/J Heat Input (0.03 lb/MMBtu)	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-425-P5 40 CFR 60 Subpart Da 567 IAC 23.1(2) "z"	None
Federal PM: 0.018 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-425-P5	Case by case MACT

Sulfur Dioxide (SO_2):

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.1 lb/MMBtu(1)	30-Day Rolling Average	CEMS	DNR Construction Permit 03-A-425-P5	BACT
3,362 ton/yr	12-Month Rolling Total	CEMS	DNR Construction Permit 03-A-425-P5	BACT
520 ng/J Heat Input (1.20 lb/MMBtu)	30-Day Rolling Average	CEMS	DNR Construction Permit 03-A-425-P5 40 CFR 60 Subpart Da 567 IAC 23.1(2) "z"	NA
1,050.0 lb/hr	3-Hour Rolling Average	CEMS	DNR Construction Permit 03-A-425-P5	NAAQS

(1) Not including periods of startup, shutdown, and malfunction.

Nitrogen Oxides (NOx):

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.07 lb/MMBtu (1)	30-Day Rolling Average	CEMS	DNR Construction Permit 03-A-425-P5	BACT

2,353 ton/yr	12-Month Rolling Total	CEMS	DNR Construction Permit 03-A-425-P5	BACT
200 ng/J Gross Energy Output (1.6 lb/MWh gross)	30-Day Rolling Average	CEMS	DNR Construction Permit 03-A-425-P5 40 CFR 60 Subpart Da 567 IAC 23.1(2) "z"	NA
573.3 lb/hr	Calendar Month Average	CEMS	DNR Construction Permit 03-A-425-P5	NAAQS

(1) Not including periods of startup, shutdown, and malfunction.

Volatile Organic Compounds (VOC)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.0036 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-425-P5	BACT
121 ton/yr	12-Month Rolling Total	Recordkeeping	DNR Construction Permit 03-A-425-P5	BACT

Carbon Monoxide (CO)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.154 lb/MMBtu	One (1) Calendar Day Average	CEMS	DNR Construction Permit 03-A-425-P5	BACT
5,177 ton/yr	12-Month Rolling Total	CEMS	DNR Construction Permit 03-A-425-P5	BACT
1,966.0 lb/hr	1-Hour Standard	CEMS	DNR Construction Permit 03-A-425-P5	NAAQS

Lead (Pb)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
2.6×10^{-5} lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-425-P5	BACT
0.20 lb/hr	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-425-P5	NAAQS

Fluorides (F)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
9×10^{-4} lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-425-P5	BACT

Total Reduced Sulfur (S)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.001 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-425-P5	BACT

Sulfuric Acid Mist (H_2SO_4)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.00421 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-425-P5	BACT

Mercury (Hg)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.013 lb/hr(1)	30-Day Rolling Average	CEMS	DNR Construction Permit 03-A-425-P5	Case-by Case MACT

(1)This limit is for total mercury emissions. Total mercury includes particulate bound mercury and both forms of vapor phase mercury (elemental and oxidized).

Hydrogen Chloride (HCl)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
2.9×10^{-3} lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-425-P5	Case-by Case MACT

Total Selected Metals (TSM)(1)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
1.04×10^{-4} lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-425-P5	Case-by Case MACT

(1)Total Selected Metals (TSM) means the combination of the following metallic HAP: arsenic, beryllium, cadmium, chromium, lead, manganese, nickel, and selenium.

Acetaldehyde(1)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
5.8×10^{-6} lb/MMBtu	One (1) Calendar Day Average	CEMS	DNR Construction Permit 03-A-425-P5	Case-by Case MACT

(1)The 112(g) emission limits will be reevaluated after actual test data has been gathered in order to determine if a new emission limit needs to be established whether that be higher or lower than the current emission limit.

Benzene(1)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
2.96×10^{-5} lb/MMBtu	One (1) Calendar Day Average	CEMS	DNR Construction Permit 03-A-425-P5	Case-by Case MACT

(1)The 112(g) emission limits will be reevaluated after actual test data has been gathered in order to determine if a new emission limit needs to be established whether that be higher or lower than the current emission limit.

Isophorone(1)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
7.45×10^{-6} lb/MMBtu	One (1) Calendar Day Average	CEMS	DNR Construction Permit 03-A-425-P5	Case-by Case MACT

(1)The 112(g) emission limits will be reevaluated after actual test data has been gathered in order to determine if a new emission limit needs to be established whether that be higher or lower than the current emission limit.

Toluene[(1)]

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
3.72×10^{-4} lb/MMBtu	One (1) Calendar Day Average	CEMS	DNR Construction Permit 03-A-425-P5	Case-by Case MACT

[(1)]The 112(g) emission limits will be reevaluated after actual test data has been gathered in order to determine if a new emission limit needs to be established whether that be higher or lower than the current emission limit.

Operational Limits & Reporting/Record keeping Requirements

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

A. This emission unit shall be limited to firing on coal and #2 fuel oil (for light off, startup, and flame stabilization).
B. The sulfur (S) content of the fuel used shall not exceed 0.625 lbs of S/MMBTU.
C. The owner or operator shall keep records with the date and an analysis showing the sulfur content and heat input representative of the coal burned for that day.
D. Per 40 CFR §60.42Da(a)(2), particulate matter (federal) emissions shall not exceed 1% of the potential combustion concentration (99% reduction) when combusting coal.
E. Per 40 CFR §60.43Da(a)(1) and 40 CFR §60.43Da(a)(2), sulfur dioxide emissions shall not exceed:
    1. 520 ng/J (1.2 lb/MMBTU) heat input and 10% of the potential combustion concentration (90% reduction) when combusting coal, or
    2. 30% of the potential combustion concentration (70% reduction), when emissions are less than 260 ng/J (0.60 lb/MMBTU) heat input. Compliance with this standard is determined on a 30-day rolling average basis.
F. Per 40 CFR §60.48a(d), during emergency conditions an affected facility with a malfunctioning flue gas desulfurization system may be operated if sulfur dioxide emissions are minimized by:
    1. Operating all operable flue gas desulfurization system modules, and bringing back into operation any malfunctioned module as soon as repairs are completed,
    2. Bypassing flue gases around only those flue gas desulfurization system modules that have been taken out of operation because they were incapable of any sulfur dioxide emission reduction or which would have suffered significant physical damage if they had remained in operation, and
    3. Designing, constructing, and operating a spare flue gas desulfurization system module for an affected facility larger than 365 MW (1,250 million Btu/hr) heat input (approximately 125 MW electrical output capacity). The Administrator may at his discretion require the owner or operator within 60 days of notification to demonstrate spare module capability. To demonstrate this capability, the owner or operator must demonstrate compliance with the appropriate requirements under paragraph (a), (b), (d), (e), and (h) under 60 CFR §60.43a for any period of operation lasting from 24 hours to 30 days when:
        i. Any one flue gas desulfurization module is not operated,
        ii. The affected facility is operating at the maximum heat input rate,
        iii. The fuel fired during the 24-hour to 30-day period is representative of the type

and average sulfur content of fuel used over a typical 30-day period, and

iv. The owner or operator has given the Administrator at least 30 days notice of the date and period of time over which the demonstration will be performed.

G. The owner or operator shall submit the written reports required under NSPS Subparts A and Da to the Administrator semiannually for each six-month period. All semiannual reports shall be postmarked by the 30th day following the end of each six-month period.

H. Per 40 CFR §60.51Da(a), the performance test data from the initial performance test and from the performance evaluation of the continuous monitors (including the transmissometer) for NO_x, SO_2, and PM emissions shall be submitted to the Administrator.

I. Per 40 CFR §60.51Da(b), the following information for NO_x and SO_2 shall be reported to the Administrator for each twenty-four (24) hour period:

(1) Calendar date,

(2) The average sulfur dioxide and nitrogen oxide emission rates (ng/J or lb/million Btu) for each thirty (30) successive boiler operating days, ending with the last thirty (30) day period in the quarter; reasons for non-compliance with the emission standards; and, description of corrective actions taken.

(3) Percent reduction of the potential combustion concentration of sulfur dioxide for each thirty (30) successive boiler operating days, ending with the last thirty (30) day period in the quarter; reasons for non-compliance with the standard; and, description of corrective actions taken.

(4) Identification of the boiler operating days for which pollutant or diluent data have not been obtained by an approved method for at least eighteen (18) hours of operation of the facility; justification for not obtaining sufficient data; and description of corrective actions taken.

(5) Identification of the times when emissions data have been excluded from the calculation of average emission rates because of startup, shutdown, malfunction (NO_x only), emergency conditions (SO_2 only), or other reasons, and justification for excluding data for reasons other than startup, shutdown, malfunction, or emergency conditions.

(6) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.

(7) Identification of times when hourly averages have been obtained based on manual sampling methods.

(8) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system.

(9) Description of any modifications to the continuous monitoring system which could affect the ability of the continuous monitoring system to comply with Performance Specifications 2 or 3:

J. Per 40 CFR §60.51Da(c), if the minimum quantity of emission data as required by 40 CFR §60.49Da is not obtained for any 30 successive boiler operating days, the following information obtained under the requirements of 40 CFR §60.48a(h) shall be reported to the Administrator for that thirty (30) day period:

(1) The number of hourly averages available for outlet emission rates (no) and inlet emission rates (n_i) as applicable.

(2) The standard deviation of hourly averages for outlet emission rates (so) and inlet

emission rates (s_i) as applicable.

(3) The lower confidence limit for the mean outlet emission rate (E_o*) and the upper confidence limit for the mean inlet emission rate (E_i*) as applicable.

(4) The applicable potential combustion concentration.

(5) The ratio of the upper confidence limit for the mean outlet emission rate (E_o*) and the allowable emission rate (E_{std}) as applicable.

K. Per 40 CFR §60.51Da(d), if any standards under 40 CFR §60.43Da are exceeded during emergency conditions because of control system malfunction, the owner or operator of the affected facility shall submit a signed statement:

(1) Indicating if emergency conditions existed and requirements under § 60.48Da(d) were met during each period, and

(2) Listing the following information:

(i) Time periods the emergency condition existed;

(ii) Electrical output and demand on the owner or operator's electric utility system and the affected facility;

(iii) Amount of power purchased from interconnected neighboring utility companies during the emergency period;

(iv) Percent reduction in emissions achieved;

(v) Atmospheric emission rate (ng/J) of the pollutant discharged; and

(vi) Actions taken to correct control system malfunction

L. Per 40 CFR §60.51Da(e), if fuel pretreatment credit toward the sulfur dioxide emission standard under 40 CFR §60.43Da is claimed, the owner or operator of the affected facility shall submit a signed statement:

(1) Indicating what percentage cleaning credit was taken for the calendar quarter, and whether the credit was determined in accordance with the provisions of 40 CFR §60.50Da and Method 19 (appendix A); and

(2) Listing the quantity, heat content, and date each pretreated fuel shipment was received during the previous quarter; the name and location of the fuel pretreatment facility; and the total quantity and total heat content of all fuels received at the affected facility during the previous quarter.

M. Per 40 CFR §60.51Da(f), any periods for which opacity, sulfur dioxide or nitrogen oxides emissions data are not available, the owner or operator of the affected facility shall submit a signed statement indicating if any changes were made in operation of the emission control system during the period of data unavailability. Operations of the control system and affected facility during periods of data unavailability are to be compared with operation of the control system and affected facility before and following the period of data unavailability.

N. Per 40 CFR §60.51Da(h), the owner or operator of the affected facility shall submit a signed statement indicating whether:

(1) The required continuous monitoring system calibration, span, and drift checks or other periodic audits have or have not been performed as specified.

(2) The data used to show compliance was or was not obtained in accordance with approved methods and procedures of this part and is representative of plant performance.

(3) The minimum data requirements have or have not been met; or, the minimum data requirements have not been met for errors that were unavoidable.

(4) Compliance with the standards has or has not been achieved during the reporting period.

O. Per 40 CFR §60.51Da(i), for the purposes of the reports required under 40 CFR §60.7, periods of excess emissions are defined as all 6-minute periods during which the average opacity exceeds the applicable opacity standards under 40 CFR §60.42Da(b). Opacity levels in excess of the applicable opacity standard and the date of such excesses are to be submitted to the Administrator each calendar quarter.

P. Per 40 CFR §60.51Da(j), owner or operator shall submit the written reports required under 40 CFR §60.51Da and 40 CFR 60, Subpart A to the Administrator semiannually for each six (6) month period. All semiannual reports shall be postmarked by the thirtieth day following the end of each six (6) month period.

Q. Per 40 CFR §60.51Da(k), the owner or operator of an affected facility may submit electronic quarterly reports for SO_2 and/or NO_x and/or opacity in lieu of submitting the written reports required under 40 CFR §60.51Da(b) and 40 CFR §60.51Da(i). The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative form.

R. This emission unit is subject to all applicable recordkeeping and reporting requirements set forth in NSPS Subparts A (40 CFR §60.1 – 40 CFR §63.19) and Da (40 CFR §60.40Da – 40 CFR §60.52Da) not specifically listed in this permit

S. The minimum sorbent feed rate of the Flue Gas Desulfurization System shall be 0.40 lbs of lime/lb of inlet SO_2 based on 90% available CaO in the lime, expressed as a three (3) hour average except for eight (8) hours per calendar month in which the three (3) hour average minimum sorbent feed rate may be less than 0.40 lbs of lime/lb of inlet SO_2.

T. The owner or operator shall keep records of the sorbent feed rate of the Flue Gas Desulfurization System (in lb/lb) expressed as a three (3) hour rolling average.

U. The minimum ammonia feed rate of the Selective Catalytic Reduction (SCR) system shall be 0.43 lbs of urea per pound of inlet SCR NO_x, expressed as a thirty (30) day rolling average.

V. The owner or operator shall keep records of the urea feed rate of the SCR system (in lb/lb) expressed as a thirty (30) day rolling average.

W. The minimum halogenated activated carbon injection rate of the Activated Carbon Injection (ACI) system shall be 1.2 pounds of halogenated activated carbon per million standard cubic feet ($MMft^3$ or MMCF) of exhaust gas, expressed as a thirty (30) day rolling average.

X. The owner or operator shall keep records of the activated carbon feed rate of the ACI system (in $lb/MMft^3$) expressed as a thirty (30) day rolling average.

Y. A bag leak detection system must be installed to meet the following criteria:

(1) At least one detector must be located in each compartment of the baghouse.

(2) The bag leak detection system must be installed, operated, calibrated, and maintained in a manner consistent with the manufacturer's written specifications and recommendations and in accordance with the guidance provided in "Fabric Filter Bag

Leak Detection Guidance," EPA-454/R-98-015, September 1997.

(3) The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 10 milligrams per actual cubic meter or less.

(4) The bag leak detection system sensor must provide output of relative or absolute particulate matter loadings.

(5) The bag leak detection system must be equipped with a device to continuously record the output signal from the sensors.

(6) The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel.

(7) The system's instrumentation and alarm may be shared among detectors.

(8) The system's alarm shall sound no more than 5% of the operating time during a 6-month period.

Z. The following records must be maintained from the bag leak detection system:

(1) The date, time and duration of each system alarm.

(2) The time corrective action was initiated and completed.

(3) A brief description of the cause of the alarm and the corrective action.

(4) A record of the percent of operating time during each 6-month period that the alarm sounds. In calculating the operating time percentage,

(i) if an inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted.

(ii) if corrective action is required, each alarm shall be counted as a minimum of one (1) hour.

(iii) if it takes longer than 1 hour to initiate corrective action, the alarm time shall be counted as the actual amount of time taken to initiate corrective action.

AA. Within sixty (60) days of Departmental approval of the last required test results from the compliance demonstrations section of construction permit 03-A-425-P5 for acetaldehyde, benzene, isophorone, and toluene the owner or operator shall submit the following to the Department:

(1) An analysis for acetaldehyde, benzene, isophorone, and toluene to establish new 112(g) case-by-case MACT limits for those pollutants. This analysis shall include:

- A summary of each test.
- The result of each individual run.
- All outliers in the data set and the methodology used to establish outliers.
- The average of all runs conducted with the outliers removed.
- The standard deviation of all runs conducted with the outliers removed.
- The upper bound 95% confidence level of all runs conducted with the outliers removed. The formula used shall be:

$$95\% = \text{avg} + \text{t}\frac{S}{\sqrt{\text{n}}}$$

where: avg = average of the test runs
S = standard deviation of the test runs
t = percentage point of the *t* distribution with n-1 degrees of freedom

n = number of test runs

(2) An analysis showing the correlation (or lack thereof) between CO and the organic HAPs that were tested.

(3) A request to establish the 112(g) case-by-case limits for organic HAP emissions based on the testing conducted and the required analysis.

BB. The waste material collected by the fabric filter and stored in the FGD waste silo system shall be processed through a pug-mill during loadout to increase the material moisture content to a minimum of 20%. The owner or operator shall conduct daily testing of the moisture content of the FGD waste material. Water wagons shall be used to wet the waste material during disposal site grading activities. These requirements do not apply to waste material being sold for beneficial use.

CC. The results of all FGD waste material moisture content tests.

DD. The owner or operator is allowed, but not required, to combust coal which has been treated with chemicals to aid in mercury (Hg) emissions control. The following additives have been approved by the Department for use by the owner or operator:

a. a mineral composite of calcium silicate components,
b. other calcium compounds containing iron and aluminum,
c. calcium bromide
d. calcium chloride

EE. The owner or operator is allowed, but not required, to add additives to the flue gas stream post-combustion to aid in mercury (Hg) emissions control. The following additives have been approved by the Department for use by the owner or operator:

a. copper sulfate

FF. Prior to the use of any additional chemicals to aid in mercury (Hg) emissions control, the owner or operator shall supply material data to the Department for review and approval. This data shall include, but is not limited to:

a. A description of the chemical additive
b. Information demonstrating the potential impact on mercury emissions and any other HAPs regulated by an applicable state or federal standard, and
c. An evaluation of the impact on all NSR regulated air emissions.

GG. The owner or operator shall record if any mercury emissions control additives are used, what chemicals were used, and whether they were added pre- or post-combustion.

HH. This emission unit is subject to all applicable operating limits set forth in NSPS Subparts A (40 CFR §60.1 – 40 CFR §63.19) and Da (40 CFR §60.40Da – 40 CFR §60.52Da) not specifically listed in this permit.

Authority for Requirement: DNR Construction Permit 03-A-425-P5

Additional operational limits and reporting/record keeping requirements from construction permit 03-A-425-P5 can be found under EP-018 and EP-019.

New Source Performance Standards (NSPS)
This emission point is subject to NSPS Subpart A – General Provisions and Subpart Da – Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978.
Authority for Requirement: 40 CFR 60 Subpart Da

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability
This emission point is also subject to NESHAP Subpart A – General Provisions and Subpart B - Requirements for Control Technology Determinations for Major Sources in Accordance With Clean Air Act Sections.
Authority for Requirement: 40 CFR 63 Subpart B

This facility is subject to National Emission Standards for Hazardous Air Pollutants from Coal- and Oil-fired Electric Utility Steam Generating Units [40 CFR 63 Subpart UUUUU]. The unit is considered an existing coal fired EGU as defined in § 63.10042, within a subcategory.

Compliance Date:
Before July 6, 2027, if your coal-fired or solid oil derived fuel-fired EGU does not qualify as a LEE for total non-mercury HAP metals, individual non-mercury HAP metals, or filterable particulate matter (PM), you must demonstrate compliance through an initial performance test and you must monitor continuous performance through either use of a particulate matter continuous parametric monitoring system (PM CPMS), a PM CEMS, or, for an existing EGU, compliance performance testing repeated quarterly (40 CFR § 63.10000 (c)(1)(iv)(A)).

Before July 6, 2027, if your coal-fired or solid oil-derived fuel-fired EGU does not qualify as a LEE for hydrogen chloride (HCl), you may demonstrate initial and continuous compliance through use of an HCl CEMS, installed and operated in accordance with Appendix B to this subpart. As an alternative to HCl CEMS, you may demonstrate initial and continuous compliance by conducting an initial and periodic quarterly performance stack test for HCl. If your EGU uses wet or dry flue gas desulfurization
technology (this includes limestone injection into a fluidized bed combustion unit), you may apply a second alternative to HCl CEMS by installing and operating a sulfur dioxide (SO2) CEMS installed and operated in accordance with part 75 of this chapter to demonstrate compliance with the applicable SO2 emissions limit (40 CFR § 63.10000 (c)(1)(v)).

Before July 6, 2027, if your coal-fired or solid oil-derived fuel-fired EGU does not qualify as a LEE for Hg, you must demonstrate initial and continuous compliance through use of a Hg CEMS or a sorbent trap monitoring system, in accordance with appendix A to this subpart (40 CFR § 63.10000 (c)(1)(vi)).

On and after July 6, 2027, you may not pursue or continue to use the LEE option for your coal-fired or solid oil derived fuel-fired EGU for filterable PM or for non-mercury HAP metals. You must demonstrate compliance through an initial performance test, and you must monitor continuous performance with the applicable filterable PM emissions limit through the use of a PM CEMS or HAP metals CMS (40 CFR § 63.10000 (c)(1)(iv)(B)).

A. The owner or operator shall comply with the general compliance requirements of NESHAP Subpart UUUUU per 40 CFR §63.10000.
B. The owner or operator shall comply with the testing and initial compliance requirements of NESHAP Subpart UUUUU per 40 CFR §63.9984, §63.10005, §63.10006 and §63.10007.
C. The owner or operator shall comply with the continuous compliance requirements of NESHAP Subpart UUUUU per 40 CFR §63.10010, §63.10011, §63.10020 and §63.10021.
D. The owner or operator shall comply with the notification, reports, and records requirements of NESHAP Subpart UUUUU per 40 CFR §63.10030 through §63.10033.
E. The owner or operator shall comply with the applicable general provisions of NESHAP Subpart A as required per 40 CFR §63.10040.

Authority for Requirement: 40 CFR 63 Subpart UUUUU

Acid Rain

The facility (plant number 78-01-026) is considered an affected source under 40 CFR 72, 73, 75, 76, 77, and 78 definitions as emission units at this source are subject to the acid rain emission reduction requirements or the acid rain emission limitations, as adopted by the Department by reference (See 567 IAC 24.120 – 567 IAC 24.148). This emission unit will be subject to the SO_2 allowance allocation, NO_x emission limitations, and monitoring provisions of the federal acid rain program.
Authority for Requirement: DNR Construction Permit 03-A-425-P5

Cross-State Air Pollution Rule (CSAPR) (a.k.a., Transport Rule (TR))

Pollutant: Nitrogen Oxides (NO_x) Annual, Nitrogen Oxides (NO_x) Ozone Season Group 2, Sulfur Dioxide (SO_2) Group 1
Emission Limits: Nitrogen Oxides and Sulfur Dioxide Allowances
Authority for Requirement: 40 CFR Part 97 (See appendix for requirements)

Emission Point Characteristics (EP-141)

The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 551
Stack Opening, (inches, dia.): 296
Exhaust Flow Rate (scfm): 2,352,100
Exhaust Temperature (°F): 165
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-425-P5

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

Monitoring Requirements

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

Stack Testing

Pollutant – Particulate Matter (PM and PM10)

- 1st Stack Test to be completed within 12-months of permit issuance: 7/9/2026
- 2nd Stack Test to be completed between 30 months and 42 months from permit issuance: 1/9/2028-1/9/2029

Test Method - 40 CFR 60, Appendix A, Method 5
40 CFR 51 Appendix M Method 202or approved alternative test method for PM10

Authority for Requirement – 567 IAC 24.108(3)

Continuous Emissions Monitoring:

A. The following monitoring systems are required:

- *Opacity:*
  In accordance with 40 CFR §60.49Da(a), the owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system (CEMS) and record the output of the system, for measuring the opacity of emissions discharged to the atmosphere.

  If opacity interference due to water droplets exists in the stack (for example, from the use of an FGD system), the opacity is monitored upstream of the interference (at the inlet to the FGD system). If opacity interference is experienced at all locations (both at the inlet and outlet of the sulfur dioxide control system), alternate parameters indicative of the particulate matter control system's performance are monitored (subject to the approval of the Administrator).

  The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 1 (PS1).

  Per 40 CFR §60.48Da(p), the owner or operator may elect to install, certify, maintain and operate a CEMS measuring PM emissions discharged to the atmosphere and record the output of the system as specified in 40 CFR §60.48Da(p)(1) through 40 CFR §60.48Da(p)(8). If the owner or operator elects to use the PM CEMS in lieu of an opacity monitor to demonstrate compliance with the NSPS, the opacity monitor is still required as the monitor shall also be used to demonstrate compliance with the BACT emission standards in this permit.

- *SO_2:*
  In accordance with 40 CFR §60.49Da(b), the owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system (CEMS) and record the output of the system, for measuring sulfur dioxide (SO_2) emissions, except where natural gas is the only fuel combusted, as follows:

(1) Install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring sulfur dioxide (SO_2) emissions discharged to the atmosphere or

(2) If the owner or operator has installed and certified a SO_2 CEMS according to the requirements of 40 CFR §75.21 and 40 CFR 75, Appendix B, that CEMS may be used to meet the SO_2 monitoring requirements provided:
   (i) A CO_2 or O_2 continuous monitoring system is installed, calibrated, maintained and operated at the same location in accordance with 40 CFR §60.49Da(d); and
   (ii) For sources subject to an SO_2 emission limit in lb/MMBTU under §60.43Da:
      (a) When relative accuracy testing is conducted, the SO_2 concentration data and the CO_2 (or O_2) data are collected simultaneously; and
      (b) In addition to meeting the applicable SO_2 and CO_2 (or O_2) relative accuracy specifications in Figure 2 of 40 CFR 75 Appendix B, the relative accuracy (RA) standard in 40 CFR 60, Appendix B, Performance Specification 2 (PS2), Section 13.2 is met when the RA is calculated on a lb/MMBTU basis and
   (iii) The reporting requirements of 40 CFR §60.51Da are met. The SO_2 and CO_2 (or O_2) data reported to meet the requirements of 40 CFR §60.51Da shall not include substitute data values derived from the missing data procedures in 40 CFR 75, Subpart D, nor shall the SO_2 data have been bias adjusted according to the procedures of 40 CFR 75.

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

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

- *NO_x:*

In accordance with 40 CFR §60.49Da(c), the owner or operator shall either:

(1) Install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring nitrogen oxides (NO_x) emissions discharged to the atmosphere; or
(2) If the owner or operator has installed a NO_x emission rate CEMS to meet the requirements of 40 CFR 75 and is continuing to meet the ongoing requirements of 40 CFR 75, that CEMS may be used to meet the requirements of 40 CFR §60.49Da(c), except that the owner or operator shall also meet the requirements of 40 CFR §60.51Da. Data reported to meet the requirements of 40 CFR §60.51Da shall not include data substituted using the missing data procedures in 40 CFR 75, Subpart D, nor shall the data have been bias adjusted according to the procedures of 40 CFR 75.

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

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

- *O_2 or CO_2:*
  In accordance with 40 CFR §60.49Da(d), the owner or operator shall install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring the oxygen (O_2) or carbon dioxide (CO_2) content of the flue gases at each location where SO_2 or NO_x emissions are monitored.

- *CO:*
  Compliance with the carbon monoxide (CO) emission limits of this permit shall be continuously demonstrated by the owner or operator through the use of a CEMS. Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring CO emissions discharged to the atmosphere and record the output of the system.

  The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 4A (PS4A) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.

- *Hg:*
  Within one hundred twenty (120) days after final EPA approval of a mercury CEMS certification process the owner or operator shall continuously demonstrate compliance with the mercury (Hg) emission limits in this permit through the use of a combination of CEMS and stack testing as detailed in *Stack Testing*, footnote 3. Therefore, the owner or operator shall install, calibrate, maintain, and operate a CEMS for measuring Hg emissions discharged to the atmosphere and record the output of the system. Prior to final approval of the mercury CEMS certification process the owner or operator shall conduct quarterly Hg testing per the requirements of *Stack Testing*.

  The system shall be designed to meet the final EPA approved mercury monitoring specification. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.

- *Wattmeter:*
  Per 40 CFR §60.49Da(k)(1), the owner or operator shall install, calibrate, maintain, and operate a wattmeter; measure gross electrical output in megawatt-hour on a continuous basis; and record the output of the monitor for demonstrating compliance with the output-based standard under 40 CFR §60.44Da(d)(1).

- *Flowmeter:*
  Per 40 CFR §60.49Da(l), the owner or operator demonstrating compliance with the output-based standard under 40 CFR §60.42Da, 40 CFR §60.43Da, 40 CFR §60.44Da, or 40 CFR §60.45Da shall install, certify, operate, and maintain a continuous flow monitoring system meeting the requirements of 40 CFR 60, Appendix B, Performance Specification 6 and 40 CFR 60, Appendix F, Procedure 1. In addition, the owner or operator shall record the output of the system, for measuring the volumetric flow of exhaust gases discharged to the atmosphere or

  Alternatively, per 40 CFR §60.49Da(m), data from a continuous flow monitoring system certified according to the requirements of 40 CFR §75.20(c) and 40 CFR 75, Appendix A, and continuing to meet the applicable quality control and quality assurance requirements of 40 CFR §75.21 and 40 CFR 75, Appendix B, may be used.

  Flow rate data reported to meet the requirements of 40 CFR §60.51Da shall not include substitute data values derived from the missing data procedures of 40 CFR 75.

B. In accordance with 40 CFR §60.49Da(e), the CEMS required in Condition A for SO_2, NO_x, and either O_2 or CO_2 shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.

C. In accordance with 40 CFR §60.49Da(f)(1), the owner or operator shall obtain emission data for at least eighteen (18) hours in at least twenty-two (22) out of thirty (30) successive boiler operating days. If this minimum data cannot be met with a CEMS, the owner or operator shall supplement the emission data with other monitoring systems approved by the Administrator or the following reference methods and procedures:
   (1) 40 CFR 60, Method 6 shall be used to determine the SO_2 concentration at the same location as the SO_2 monitor. Samples shall be taken at 60-minute intervals. The sampling time and sample volume for each sample shall be at least 20 minutes and 0.020 dscm (0.71 dscf). Each sample represents a 1-hour average.
   (2) 40 CFR 60, Method 7 shall be used to determine the NO_x concentration at the same location as the NO_x monitor. Samples shall be taken at 30-minute intervals. The arithmetic average of two consecutive samples represents a 1-hour average.
   (3) The emission rate correction factor, integrated bag sampling and analysis procedure of 40 CFR 60, Appendix A, Method 3B shall be used to determine the O_2 or CO_2 concentration at the same location as the O_2 or CO_2 monitor. Samples shall be taken for at least 30 minutes in each hour. Each sample represents a 1-hour average.
   (4) The procedures in 40 CFR 60, Appendix A, Method 19 shall be used to compute each 1-hour average concentration in ng/J (1b/million Btu) heat input.

Acceptable alternative methods and procedures are given in Condition F in this section.

D. The 1-hour averages required under 40 CFR §60.13(h) are expressed in ng/J (lb/million Btu) heat input and used to calculate the average emission rates under 40 CFR §60.48Da.

The 1-hour averages are calculated using the data points required under 40 CFR §60.13(h)(2).

E. Per 40 CFR §60.49Da(i), the owner or operator shall use the following methods and procedures to conduct monitoring system performance evaluations under 40 CFR §60.13(c) and calibration checks under 40 CFR §60.13(d):
   (1) Methods 3B, 6, and 7 shall be used to determine O_2, SO_2, and NO_x concentrations, respectively.
   (2) SO_2 or NO_x (NO), as applicable, shall be used for preparing the calibration gas mixtures (in N_2, as applicable) under 40 CFR 60, Appendix B, Performance Specification 2.
   (3) The span value for a continuous monitoring system for measuring opacity is between 60 and 80 percent.
   (4) The span value for a continuous monitoring system measuring NO_x is either:
      (i) 1,000 ppm or
      (ii) The owner or operator may elect to use the NO_x span values determined according to Section 2.1.2 in 40 CFR 75, Appendix A.
   (5) The span value of the sulfur dioxide continuous monitoring system is either:
      (i) 125 percent of the maximum estimated hourly potential emissions of the fuel fired at the inlet to the sulfur dioxide control device and 50 percent of maximum estimated hourly potential emissions of the fuel fired at the outlet of the sulfur dioxide control device or
      (ii) The owner or operator may elect to use the SO_2 span values determined according to Section 2.1.1 in 40 CFR 75, Appendix A.

Acceptable alternative methods and procedures are given in condition F in this section.

F. The owner or operator may use the following as alternatives to the reference methods and procedures specified:
   (1) For 40 CFR 60, Appendix A: 40 CFR 60, Appendix A, Method 6, Method 6A or Method 6B (whenever 40 CFR 60, Appendix A, Method 6 and Method 3 or Method 3B data are used) or 40 CFR 60, Appendix A, Method 6C may be used. Each Method 6B sample obtained over 24 hours represents 24 1-hour averages. If either 40 CFR 60, Appendix A, Method 6A or 40 CFR 60, Appendix A, Method 6B is used under 40 CFR §60.49Da(i), the conditions under 40 CFR §60.49Da(d)(1) apply. These conditions do not apply under 40 CFR §60.49Da(h).
   (2) For 40 CFR 60, Appendix A: 40 CFR 60, Appendix A, Method 7, Method 7A, 7C, 7D, or 7E may be used. If Method 7C, 7D, or 7E is used, the sampling time for each run shall be 1 hour.
   (3) For 40 CFR 60, Appendix A, Method 3: 40 CFR 60, Appendix A, Method 3A or 3B may be used if the sampling time is 1 hour.
   (4) For 40 CFR 60, Appendix A, Method 3B: 40 CFR 60, Appendix A, Method 3A may be used.

G. The following data requirements shall apply to all CEMS for non-NSPS emission standards in this permit:
   (1) The CEMS required by this permit shall be operated and data recorded during all periods of operation of the emission unit except for CEM breakdowns and repairs.

Data is recorded during calibration checks, and zero and span adjustments.

(2) The 1-hour average PM, Hg, SO_2, NO_x, and CO emission rates measured by the CEMS required by this permit shall be used to calculate compliance with the emission standards of this permit. At least 2 data points must be used to calculate each 1-hour average.

(3) For each hour of missing emission data (Hg, NO_x, SO_2, or CO), the owner or operator shall substitute data by:

(i) If the monitor data availability is equal to or greater than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:

(c) For the missing data period less than or equal to 24 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period;

(d) For a missing data period greater than 24 hours, substitute the greater of:

- The 90th percentile hourly concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
- The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

(ii) If the monitor data availability is at least 90.0% but less than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:

(a) For a missing data period of less than or equal to 8 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

(b) For the missing data period of more than 8 hours, substitute the greater of:

- The 95th percentile hourly pollutant concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
- The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

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

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

Authority for Requirement: DNR Construction Permit 03-A-425-P5

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in

the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Compliance Assurance Monitoring Plan for EP-141

I. Background

A. Emissions Unit:

Description:	WSEC Boiler 4
Identification:	EU-141
Facility:	MidAmerican Energy Co. – Walter Scott, Jr. Energy Center

B. Applicable Regulation, Emission Limit, and Monitoring Requirements:

Regulation No.:	Construction Permit 03-A-425-P5
Particulate Emission Limits:	BACT Limit: 0.0025 lb/MMBtu for PM10 BACT Limit: 0.0027 lb/MMBtu for PM MACT Limit: 0.018 lb/MMBtu for Federal PM NSPS Limit: 13 ng/J Heat Input for Federal PM Other Limit: 191.9 lb/hr for PM10
Opacity Emission Limit:	5%; 20%
Current Monitoring Requirements:	Alarm of the Bag Leak Detection System Continuous Opacity Monitoring

C. Control Technology: Baghouse

II. Monitoring Approach

A. Indicator
An alarm system will be used as an indicator.

B. Measurement Approach
The alarm system will sound automatically when an increase in related particulate matter emissions over a preset level is detected.

C. Indicator Range
The alarm system shall sound no more than 5% of the operating time during a 6-month period.

D. Performance Criteria

Data representativeness:	The alarm system will sound when the particulate matter emissions increase over the predetermined parameter.

Verification of operational status:	The bag leak record will be kept for five years.
QA/QC practices and criteria:	At least one detector must be located in compartment of the baghouse; The bag leak detection system must be installed, operated, calibrated and maintained in a manner consistent with the guidance provided in "Fabric Filter Bag Leak Detection Guidance", EPA-454/R-98-015, September 1997; The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 10 milligrams per actual cubic meter or less; The bag leak detection system sensor must provide output of relative or absolute particulate matter loadings; The bag leak detection system must be equipped with a device to continuously record the output signal from the sensors; The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel; The system's instrumentation and alarm may be share among detectors; The system's alarm shall sound no more than 5% of the operating time during a 6-month period.
Monitoring frequency and data Collection procedure:	The bag leak detection system shall operate continuously. Records of the readings shall be maintained for five years.

Emission Point ID Number: EP-142

Associated Equipment
Associated Emission Unit ID Numbers: EU-142
Emissions Control Equipment ID Number: CE-142
Emissions Control Equipment Description: Low NO_x Burners
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-142
Emission Unit Description: Unit #4 Auxiliary Boiler - Natural Gas
Raw Material/Fuel: Natural Gas
Rated Capacity: 343.3 MMBtu/hr

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
No Visible Emissions	None	NA	DNR Construction Permit 03-A-426-P2	BACT

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.0076 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2	BACT
2.61 lb/hr	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.0076 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2	BACT

Sulfur Dioxide (SO_2)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
6×10^{-4} lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2	BACT
0.21 lb/hr	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2	NAAQS
500 ppm	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2 567 IAC 23.3(3) "e"	NA

Nitrogen Oxides (NO_x)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.14 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2	BACT
21.1 ton/yr	12-Month Rolling Total	Recordkeeping	DNR Construction Permit 03-A-426-P2	BACT
48.06 lb/hr	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2 40 CFR 60 Subpart Db 567 IAC 23.1(2) "ccc"	NAAQS
0.20 lb/MMBtu[(1)]	24-hr Average (initial) 3-hr Average (subsequent)	Stack Testing	DNR Construction Permit 03-A-426-P2 40 CFR 60 Subpart Db 567 IAC 23.1(2) "ccc"	None

[1]0.20 lb/MMBtu was derived from natural gas and distillate fuel. See Construction Permit 03-A-426-P2 Section 10b (page 5) or 40 CFR §60.44b (a) for nitrogen dioxides (NO_x) for detailed calculations.

Volatile Organic Compounds (VOC)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.0055 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2	BACT

Carbon Monoxide (CO)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.084 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2	BACT
28.84 lb/hr	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2	NAAQS
400 ppmv @3% O_2	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2	NA

Lead (Pb)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
5.0×10^{-7} lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2	BACT
4.0×10^{-4} lb/hr	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-426-P2	NAAQS

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. WSEC Auxiliary Boiler (EP-142) shall be limited to firing on natural gas only.

B. This emission unit shall not combust more than 300 million cubic feet of natural gas per twelve (12) month rolling period.
C. Per 40 CFR §60.46b(h)(2), the owner or operator shall conduct subsequent performance tests once per calendar year or every 400 hours of operation (whichever comes first) to demonstrate compliance with the nitrogen oxides emission standards under 40 CFR §60.44b over a minimum of three (3) consecutive steam generating unit operating hours at maximum heat input capacity using Method 7, 7A, 7E, or other approved reference methods.
D. The owner or operator shall submit the written reports required under NSPS Subparts A and Db to the Administrator semiannually for each six-month period. All semiannual reports shall be postmarked by the 30th day following the end of each six-month period.
E. Per 40 CFR §60.49b(p), the owner or operator shall maintain records of the following information for each steam generating unit operating day:
    1. Calendar date;
    2. The number of hours of operation, and
    3. A record of the hourly steam load.

Reporting and Recordkeeping

A. For the first twelve (12) months of operation, determine the total amount of fuel used (in cubic feet/month) by this emission unit for each month of operation.
B. After the first twelve (12) months of operation, determine the cumulative amount of fuel used (in cubic feet/year) by this emission unit on a rolling-12-month basis for each month of operation.
C. A log showing the sulfur content of the natural gas used.
D. Per 40 CFR §60.49b(q), the owner or operator shall submit to the Administrator a report containing:
    1. The annual capacity factor over the previous twelve (12) months and
    2. The following information per 40 CFR §60.49b(q)(3)
        i. The results of any nitrogen oxides emission tests required during the reporting period;
        ii. The hours of operation during the reporting period, and
        iii. The hours of operation since the last nitrogen oxides emission test.
E. Per 40 CFR §60.49b(v), the owner or operator may submit electronic quarterly reports for NO_x in lieu of submitting the written reports required under paragraphs (h), (i), (j), (k) or (l) of 40 CFR §49b. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format.
F. Monitoring for NESHAP Subpart DDDDD at the facility shall be done per the subpart.
G. Recordkeeping for NESHAP Subpart DDDDD at the facility shall be done per the subpart. Records shall be kept on site and available for inspection for a period of five (5) years and shall include records of fuel use, capacity factor, semi-annual compliance

reports, annual performance test reports and all required notifications.
Authority for Requirement: DNR Construction Permit 03-A-426-P2

New Source Performance Standards (NSPS)
This emission unit is subject to NSPS Subpart A – General Provisions and Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.
Authority for Requirement: 40 CFR 60 Subpart Db

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

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

Stack Height, (ft, from the ground): 290
Stack Opening, (inches, dia.): 69
Exhaust Flow Rate (scfm): 72,300
Exhaust Temperature (°F): 310
Discharge Style: Vertical, Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-426-P2

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

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

Stack Testing:
Pollutant – Nitrogen Oxides (NO_x)
The facility shall conduct annual /400 operating hour NOx stack testing on EP-142.
Test Method – 40 CFR 60, Appendix A, Method 7E
Authority for Requirement: DNR Construction Permit 03-A-426-P2
40 CFR 60 Subpart Db

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-143

Associated Equipment
Associated Emission Unit ID Numbers: EU-143
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-143
Emission Unit Description: Unit #4 Emergency Generator
Raw Material/Fuel: Diesel Fuel
Rated Capacity: 119.3 gal/hr

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
20%	6-min Average	Stack Testing	DNR Construction Permit 03-A-428-P1	BACT

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.14 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-428-P1	BACT

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.14 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-428-P1	BACT

Sulfur Dioxide (SO_2)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.052 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-428-P1	BACT
0.21 ton/yr	12-Month Rolling Total	Recordkeeping	DNR Construction Permit 03-A-428-P1	BACT
2.5 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-428-P1 567 IAC 23.3(3) "b"	NA

Nitrogen Oxides (NO_x)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
1.71 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-428-P1	BACT
6.99 ton/yr	12-Month Rolling Total	Recordkeeping	DNR Construction Permit 03-A-428-P1	BACT

Volatile Organic Compounds (VOC)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.09 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-428-P1	BACT

Carbon Monoxide (CO)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.85 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-428-P1	BACT
3.47 ton/yr	12-Month Rolling Total	Recordkeeping	DNR Construction Permit 03-A-428-P1	BACT

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. This emission unit shall fire on diesel fuel only.
B. The sulfur (S) content of the fuel used shall not exceed 0.05% (by weight).
C. This emission unit shall not combust more than 59,650 gallons of diesel fuel per twelve (12) month rolling period.

Reporting and Recordkeeping

A. A fuel certification shall be kept for each fuel delivery received for this unit. This certification shall show the type of fuel delivered along with the sulfur content of the fuel (in weight %).
B. After the first twelve (12) months of operation, determine the cumulative amount of fuel used (in gallons/year) by this emission unit on a rolling-12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 03-A-428-P1

NESHAP:

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(i) this emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after December 19, 2002.

According to 40 CFR 63.6590(b)(1)(i), a new emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is not subject to the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A except for initial notification requirements of 40 CFR 63.6645(f).
Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

Emission Point Characteristics
The emission point shall conform to the specifications listed below.
Stack Height, (ft, from the ground): 21.8
Stack Opening, (inches, dia.): 18
Exhaust Flow Rate (scfm): 5,800
Exhaust Temperature (°F): 855
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-428-P1

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

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.
Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒
Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒
Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒
Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-144

Associated Equipment
Associated Emission Unit ID Numbers: EU-144
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-144
Emission Unit Description: Unit #4 Diesel Fire Pump
Raw Material/Fuel: Diesel Fuel
Rated Capacity: 16.5 gal/hr

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
20%	6-Minute Average	Stack Testing	DNR Construction Permit 03-A-429-P1	BACT

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.31 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-429-P1	BACT

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.31 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-429-P1	BACT

Sulfur Dioxide (SO_2)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.052 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-429-P1	BACT
0.03 ton/yr	12-Month Rolling Total	Recordkeeping	DNR Construction Permit 03-A-429-P1	BACT
2.5 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-429-P1 567 IAC 23.3(3) "b"	NA

Nitrogen Oxides (NO_x)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
4.41 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-429-P1	BACT
2.49 ton/yr	12-Month Rolling Total	Recordkeeping	DNR Construction Permit 03-A-429-P1	BACT

Volatile Organic Compounds (VOC)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.35 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-429-P1	BACT

Carbon Monoxide (CO)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.95 lb/MMBtu	3-Test Run Average	Stack Testing	DNR Construction Permit 03-A-429-P1	BACT
0.54 ton/yr	12-Month Rolling Total	Recordkeeping	DNR Construction Permit 03-A-429-P1	BACT

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. This emission unit shall fire on diesel fuel only.
B. The sulfur (S) content of the fuel used shall not exceed 0.05% (by weight).
C. This emission unit shall not combust more than 8,250 gallons of diesel fuel per twelve (12) month rolling period.

Reporting and Recordkeeping

A. A fuel certification shall be kept for each fuel delivery received for this unit. This certification shall show the type of fuel delivered along with the sulfur content of the fuel (in weight %).
B. After the first twelve (12) months of operation, determine the cumulative amount of fuel used (in gallons/year) by this emission unit on a rolling-12-month basis for each month of operation.

Authority for Requirement: DNR Construction Permit 03-A-429-P1

NESHAP:

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(ii) this compression ignition emergency engine, located at a major source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or within 1 year + 30 days, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or within 1 year + 30 days, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE.
2. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. See 40 CFR 63.6655(f) for additional information.

Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2c to Subpart ZZZZ

1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)

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

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 13.5
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): 800
Exhaust Temperature (°F): 850
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 03-A-429-P1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-145

Associated Equipment
Associated Emission Unit ID Numbers: EU-145
Emissions Control Equipment ID Number: CE-145
Emissions Control Equipment Description: Drift Eliminator
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-145
Emission Unit Description: Unit #4 Cooling Tower
Raw Material/Fuel: Cooling Water
Rated Capacity: 394,500 gal/min

Applicable Requirements

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

Pollutant: Opacity
Emission Limit(s): No Visible Emissions [(1)]
Authority for Requirement: DNR Construction Permit 03-A-427-P1

Pollutant: Particulate Matter (PM_{10})
Emission Limit(s): 0.0005% [(1), (2)]; 1.28 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-427-P1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.0005% [(1), (2)]
Authority for Requirement: DNR Construction Permit 03-A-427-P1
[(1)] BACT limits.
[(2)] This is the required control efficiency of the drift eliminator (gallons of drift per gallon of cooling water flow).

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

Operating Limits

A. The total dissolved solids (TDS) of the water circulated through the tower shall not exceed 6,480 mg/L.
B. Chromium based water treatment chemicals shall not be used in this emission unit.

Reporting and Recordkeeping

A. An analysis of the TDS of the water circulated through the tower shall be conducted for each quarter this emission unit is in use.

Authority for Requirement: DNR Construction Permit 03-A-427-P1

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

Stack Height, (ft, from the ground): 63.1
Stack Opening, (inches, dia.): 393.6 per cell (22 cells in total)
Exhaust Flow Rate (scfm): 1,302,900 per cell (22 cells in total)
Exhaust Temperature (°F): 100
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-427-P1

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

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

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

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

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

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

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

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.
Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-005 and EP151 (Coal Storage)

Associated Equipment

Table -1

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-005	EU-005A	Coal Pile Bulldozing	Coal	3.0 dozer/hr
	EU-005B	Inactive Coal Pile	Coal	1,196,459 ft^2
	EU-005C	Active Coal Pile	Coal	311,155 ft^2
EP-151	EU-151	Rail Unloading Stockout	Coal	28,224 ft^2

Table -2

EP	EU	CE& Description	CEM	DNR Construction Permit
EP-005	EU-005A	CE-005 Dust Suppressant	NO	03-A-425-P5
	EU-005B	CE-005A Encapsulating Chemical	NO	
	EU-005C	CE-005 Dust Suppressant	NO	
EP-151	EU-151	CE-005 Dust Suppressant	NO	

Applicable Requirements

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

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

Fugitive Dust:
No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.
Authority for Requirement: 567 IAC 23.3(2) "c"

Operational Limits & Reporting/Record keeping Requirements

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

The following conditions are required on the following area source fugitive emissions at the facility (plant number 78-01-026) for this project in order for these sources to meet the BACT emission rate:

A. Active coal pile:
   (i) The size of the active coal pile shall not exceed 311,155 square feet.
   (ii) Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition A in the section of *Reporting and Recordkeeping* shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the required control efficiencies. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different

amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.

(iii) If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

B. Inactive coal storage pile:

(i) The size of the inactive coal storage pile shall not exceed 1,196,459 square feet.

(ii) Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition A in the section of *Reporting and Recordkeeping* shall begin at the same time as the startup of Boiler 4. A control efficiency of 99% shall be maintained when the pile is inactive. A chemical dust suppressant shall be used to meet a control efficiency of 95% for maintenance of the inactive pile. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the required control efficiencies. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.

(iii) If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

C. Rail unloading coal stockout pile:

(i) The size of the active coal storage pile shall not exceed 28,224 square feet.

(ii) Fugitive emissions shall be controlled by applying a chemical dust suppressant. Applications of the selected chemical dust suppressant and the record keeping requirements described in Condition A in the section of *Reporting and Recordkeeping* shall begin at the same time as the startup of Boiler 4. A control efficiency of 95% shall be maintained. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.

(iii) If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less

than 35°F (1.7°C) or other conditions due to weather cause the chemical dust suppressant to not be applied then the chemical dust suppressant application shall be postponed and applied as soon after the scheduled application date as the conditions preventing the application have abated.

Reporting and Recordkeeping

A. The owner or operator shall keep a log showing the following for the area sources in this project:

1. Active coal pile:
   (i) The date and size of the pile.
   (ii) Records of the applications shall be maintained and shall include:
   - The dates of each application,
   - The chemical dust suppressant used,
   - The application intensity (gal/yd^2),
   - Dilution ratio,
   - The operator's initials, and
   - Documentation of weather conditions, if necessary.

   (iii) If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation.
2. Inactive storage pile:
   (i) The date and size of the pile.
   (ii) Records of the applications shall be maintained and shall include:
   - The dates of each application,
   - The chemical dust suppressant used,
   - The application intensity (gal/yd^2),
   - Dilution ratio,
   - The operator's initials, and
   - Documentation of weather conditions, if necessary.

   (iii) If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation.
3. Rail unloading coal stockout pile:
   (i) The date and size of the pile.
   (ii) Records of the applications shall be maintained and shall include:
   - The dates of each application;
   - The chemical dust suppressant used;
   - The application intensity (gal/yd^2);
   - Dilution ratio;
   - The operator's initials, and
   - Documentation of weather conditions, if necessary.

   (iii) If the selected chemical dust suppressant is not applied as planned, then the records should so indicate and provide an explanation.

Authority for Requirement: DNR Construction Permit 03-A-425-P5

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-160

Associated Equipment
Associated Emission Unit ID Numbers: EU-160
Emissions Control Equipment ID Number: CE-160
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-160
Emission Unit Description: Unit #4 Coal Silos (series of six)
Raw Material/Fuel: Coal
Rated Capacity: 1,600 ton/hr

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
5%	1-Hour Average	Stack Testing	DNR Construction Permit 03-A-440-P2	BACT
20%	6-Minute Average	Stack Testing	DNR Construction Permit 03-A-440-P2 40 CFR 60 Subpart Y	NA

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 03-A-440-P2	BACT
2.14 lb/hr	3-Run Average	Stack Testing	DNR Construction Permit 03-A-440-P2	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 03-A-440-P2	BACT

Operational Limits & Reporting/Record keeping Requirements

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

A. The facility is required to schedule a PM_{10} compliance test within thirty (30) days if it exceeds the one (1) hour, 5% BACT opacity limit.

Authority for Requirement: DNR Construction Permit 03-A-440-P2

NSPS and NESHAP Applicability

This emission unit is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance of Coal Preparation Plants.

Authority for Requirement: 40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 246
Stack Opening, (inches, dia.): 54
Exhaust Flow Rate (scfm): 49,900
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-440-P2

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

Monitoring Requirements

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

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

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

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

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

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

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.
Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-161

Associated Equipment
Associated Emission Unit ID Numbers: EU-161
Emissions Control Equipment ID Number: CE-161
Emissions Control Equipment Description: Bin Vent Filter
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-161
Emission Unit Description: Unit #4 Lime Storage Day Bin
Raw Material/Fuel: Lime
Rated Capacity: 54.0 tons

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
No Visible Emissions	NA	Stack Testing	DNR Construction Permit 07-A-385-P 567 IAC 23.3(2) "d"	BACT

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 07-A-385-P	BACT
0.03 lb/hr	3-Run Average	Stack Testing	DNR Construction Permit 07-A-385-P	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 07-A-385-P	BACT

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

Operational limits are not required at this time.

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

Stack Height, (ft, from the ground): 85
Stack Opening, (inches, dia.): 3.25
Exhaust Flow Rate (scfm): 300
Exhaust Temperature (°F): 70
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 07-A-385-P

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-162A &EP-162B (Unit #4 Lime Exhausters)

Associated Equipment
Associated Emission Unit ID Numbers: EU-162A and EU-162B
Emissions Control Equipment ID Number: CE-162
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity	Con. Permit
EP-162A	EU-162A	Unit #4 Lime Exhauster #1	Lime	30.0 ton/hr	03-A-435-P1
EP-162B	EU-162B	Unit #4 Lime Exhauster #2	Lime	30.0 ton/hr	07-A-386-P

Applicable Requirements

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

Best Available Control Technology (BACT) Emission Limits

EP	EU	Opacity	PM	PM10	Authority of Requirement
EP-162A	EU-162A	No Visible Emissions	0.01 gr/dscf	0.01 gr/dscf	DNR Construction Permit 03-A-435-P1
EP-162B	EU-162B	No Visible Emissions	0.005 gr/dscf	0.005 gr/dscf	DNR Construction Permit 07-A-386-P

Other Emission Limits

EP	EU	Opacity	PM10	Authority of Requirement
EP-162A	EU-162A	No Visible Emissions	0.03 lb/hr	DNR Construction Permit 03-A-435-P1 567 IAC 23.3(2) "d"
EP-162B	EU-162B	No Visible Emissions	0.03 lb/hr	DNR Construction Permit 07-A-386-P 567 IAC 23.3(2) "d"

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

Operational limits are not required at this time.

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

	EP-162A	**EP-162B**
Stack Height, (ft, from the ground)	13	13
Stack Opening (diameter, inches)	4	4
Exhaust Flow Rate (scfm)	400	400
Exhaust Temperature (°F)	150	150
Discharge Style	Downward	Downward
Authority for Requirement	DNR Construction Permit 03-A-435-P1	DNR Construction Permit 07-A-386-P

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-163

Associated Equipment
Associated Emission Unit ID Numbers: EU-163
Emissions Control Equipment ID Number: CE-163
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-163
Emission Unit Description: Unit #4 Lime Silo
Raw Material/Fuel: Lime
Rated Capacity: 1,875.0 ton capacity; 30 ton/hr fill rate

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
No Visible Emissions	NA	Stack Testing	DNR Construction Permit 03-A-434-P2 567 IAC 23.3(2) "d"	BACT

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.01 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 03-A-434-P2	BACT
0.03 lb/hr	3-Run Average	Stack Testing	DNR Construction Permit 03-A-434-P2	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.01 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 03-A-434-P2	BACT

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

Operational limits are not required at this time.

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

Stack Height, (ft, from the ground): 104
Stack Opening, (inches, dia.): 4
Exhaust Flow Rate (scfm): 300
Exhaust Temperature (°F): 70
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 03-A-434-P2

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-164

Associated Equipment
Associated Emission Unit ID Numbers: EU-164
Emissions Control Equipment ID Number: CE-164
Emissions Control Equipment Description: Water Bath
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-164
Emission Unit Description: Unit #4 Urea Dissolver Tank
Raw Material/Fuel: Urea
Rated Capacity: 69.0 tons; 15,000 gallons

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
No Visible Emissions	NA	Stack Testing	DNR Construction Permit 03-A-442-P2 567 IAC 23.3(2) "d"	BACT

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.01 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 03-A-442-P2	BACT
0.04 lb/hr	3-Run Average	Stack Testing	DNR Construction Permit 03-A-442-P2	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.01 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 03-A-442-P2	BACT

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

Operational limits are not required at this time.

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

Stack Height, (ft, from the ground): 29
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 500
Exhaust Temperature (°F): 70
Discharge Style: Vertical Obstructed
Authority for Requirement: DNR Construction Permit 03-A-442-P2

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-165A&EP-165B (Unit #4 Activated Carbon Silos)

Associated Equipment
Associated Emission Unit ID Numbers: EU-165A and EU-165B
Emissions Control Equipment ID Number: CE-165A and CE-165B
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-165A	EU-165A	Unit #4 Activated Carbon Silo	Activated Carbon	80.0 tons
EP-165B	EU-165B	Unit #4 Activated Carbon Silo	Activated Carbon	80.0 tons

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
No Visible Emissions	NA	Stack Testing	DNR Construction Permit 07-A-387-P; 07-A-388-P 567 IAC 23.3(2) "d"	BACT

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 07-A-387-P; 07-A-388-P	BACT
0.03 lb/hr	3-Run Average	Stack Testing	DNR Construction Permit 07-A-387-P; 07-A-388-P	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 07-A-387-P; 07-A-388-P	BACT

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

Operational limits are not required at this time.

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

Stack Height, (ft, from the ground): 62
Stack Opening, (inches): 15×15
Exhaust Flow Rate (scfm): 300
Exhaust Temperature (°F): 70
Discharge Style: Downward
Authority for Requirement: DNR Construction Permit 07-A-387-P; 07-A-388-P

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-167

Associated Equipment
Associated Emission Unit ID Numbers: EU-167
Emissions Control Equipment ID Number: CE-167
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-167
Emission Unit Description: Unit #4 Flyash/FGD Waste Silo
Raw Material/Fuel: Flyash/FGD Waste
Rated Capacity: 2,840 tons capacity; 65.0 ton/hr fill rate

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
No Visible Emissions	NA	Stack Testing	DNR Construction Permit 03-A-433-P3	BACT
40%	6-Minutes Average	Stack Testing	DNR Construction Permit 03-A-433-P3 567 IAC 23.3(2) "a"	None

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 03-A-433-P3	BACT
0.13 lb/hr	3-Run Average	Stack Testing	DNR Construction Permit 03-A-433-P3	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 03-A-433-P3	BACT

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

Operational limits are not required at this time.

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

Stack Height, (ft, from the ground): 126
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): 2,600
Exhaust Temperature (°F): 160
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 03-A-433-P3

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

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

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

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

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

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

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

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.
Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: Unit #4 Flyash/FGD Waste and Recycle

Associated Equipment

Table -1

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-168	EU-168	Unit #4 Flyash/FGD Waste Exhauster#1	Flyash/FGD Waste	65.00 ton/hr
EP-169	EU-169	Unit #4 Flyash/FGD Waste Exhauster#2	Flyash/FGD Waste	65.00 ton/hr
EP-170	EU-170	Unit #4 Flyash/FGD Waste Exhauster#3	Flyash/FGD Waste	65.00 ton/hr
EP-171	EU-171	Unit #4 Flyash/FGD Recycle Exhauster#1	Flyash/FGD Waste	65.0 ton/hr
EP-172	EU-172	Unit #4 Flyash/FGD Recycle Exhauster#2	Flyash/FGD Waste	65.0 ton/hr
EP-173	EU-173	Unit #4 Flyash/FGD Recycle Exhauster #3	Flyash/FGD Waste	65.0 ton/hr

Table -2

EP	EU	Emission Unit Description	CE& Description	DNR Construction Permit
EP-168	EU-168	Unit #4 Flyash/FGD Waste Exhauster#1	CE-168: Baghouse	03-A-430-P2
EP-169	EU-169	Unit #4 Flyash/FGD Waste Exhauster#2	CE-169: Baghouse	03-A-431-P2
EP-170	EU-170	Unit #4 Flyash/FGD Waste Exhauster#3	CE-168 or CE-169: Baghouse	03-A-432-P2
EP-171	EU-171	Unit #4 Flyash/FGD Recycle Exhauster#1	CE-171: Baghouse	07-A-389-P
EP-172	EU-172	Unit #4 Flyash/FGD Recycle Exhauster#2	CE-172: Baghouse	07-A-390-P
EP-173	EU-173	Unit #4 Flyash/FGD Recycle Exhauster #3	CE-171 or CE-172: Baghouse	07-A-391-P

Applicable Requirements

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

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

EP	Opacity[1,2]	Opacity[3,4]	PM[1]	PM_{10}[1]	PM_{10}[5]	Authority for Requirement
EP-168	5%	40%	0.005 gr/dscf	0.005 gr/dscf	0.15 lb/hr	DNR Construction Permit 03-A-430-P2
EP-169	5%	40%	0.005 gr/dscf	0.005 gr/dscf	0.15 lb/hr	DNR Construction Permit 03-A-431-P2
EP-170	5%	40%	0.005 gr/dscf	0.005 gr/dscf	0.15 lb/hr	DNR Construction Permit 03-A-432-P2
EP-171	5%	40%	0.005 gr/dscf	0.005 gr/dscf	0.20 lb/hr	DNR Construction Permit 07-A-389-P
EP-172	5%	40%	0.005 gr/dscf	0.005 gr/dscf	0.20 lb/hr	DNR Construction Permit 07-A-390-P
EP-173	5%	40%	0.005 gr/dscf	0.005 gr/dscf	0.20 lb/hr	DNR Construction Permit 07-A-391-P

[1] BACT limits.
[2] Standard is 1-hr limit.
[3] Standard is 6-minute average.
[4] 567 IAC 23.3(2) "a"
[5] Limits is used to demonstrate no exceedance of NAAQS.

Operational Limits & Reporting/Record keeping Requirements

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

A. The facility is required to schedule a PM_{10} compliance test within thirty (30) days if it exceeds the one (1) hour, 5% BACT opacity limit.

Authority for Requirement: DNR Construction Permit – See Table 2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement DNR Construction Permit
EP-168	13	14	3,100	160	Horizontal	03-A-430-P2
EP-169	13	14	3,100	160	Horizontal	03-A-431-P2
EP-170	13	14	3,100	160	Horizontal	03-A-432-P2
EP-171	13	14.4	4,000	160	Horizontal	07-A-389-P
EP-172	13	14.4	4,000	160	Horizontal	07-A-390-P
EP-173	13	14.4	4,000	160	Horizontal	07-A-391-P

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

Monitoring Requirements

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

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

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

Required for Baghouses: CE-168, CE-169, CE-171, and CE-172

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-174

Associated Equipment
Associated Emission Unit ID Numbers: EU-174
Emissions Control Equipment ID Number: CE-174
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-174
Emission Unit Description: Unit #4 Flyash/FGD Recycle Silo
Raw Material/Fuel: Flyash/FGD Material
Rated Capacity: 130 ton/hr

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
No Visible Emissions	NA	Stack Testing	DNR Construction Permit 07-A-392-P2	BACT
40%	6-Minutes Average	Stack Testing	DNR Construction Permit 07-A-392-P2 567 IAC 23.3(2) "d"	NA

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 07-A-392-P2	BACT
0.03 lb/hr	3-Run Average	Stack Testing	DNR Construction Permit 07-A-392-P2	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 07-A-392-P2	BACT

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The combined silo fill rate of the operating recycle ash and backup ash transport systems shall not exceed 130 tons/hr.

Recordkeeping and Reporting Requirements

B. The date, hours of operating for each half of the 130 ton/hr recycle ash transport system, and the hours of operation for each half of the 60 ton/hr backup transport system.

Authority for Requirement: DNR Construction Permit 07-A-392-P2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 103.8
Stack Opening, (inches, dia.): 5
Exhaust Flow Rate (scfm): 550
Exhaust Temperature (ºF): 160
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 07-A-392-P2

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-180, EP-181, EP-182 (Unit #4 Water Treatment)

Associated Equipment

Table -1

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-180	EU-180	Unit #4 Water Treatment Area Lime Storage Silo A	Lime	80.00 tons
EP-181	EU-181	Unit #4 Water Treatment Area Lime Storage Silo B	Lime	80.00 tons
EP-182	EU-182	Unit #4 Water Treatment - Soda Ash Silo	Soda Ash	225.0 tons

Table -2

EP	EU	Emission Unit Description	CE & Description	CEM	DNR Construction Permit
EP-180	EU-180	Unit #4 Water Treatment Area Lime Storage Silo A	CE-180/Baghouse	None	07-A-393-P
EP-181	EU-181	Unit #4 Water Treatment Area Lime Storage Silo B	CE-181/Baghouse	None	07-A-394-P
EP-182	EU-182	Unit #4 Water Treatment - Soda Ash Silo	CE-182/Baghouse	None	07-A-395-P

Applicable Requirements

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

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
No Visible Emissions	NA	Stack Testing	See Table 2	BACT
40%	6-Minutes Average	Stack Testing	See Table 2 for permit numbers 567 IAC 23.3(2) "d"	NA

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	See Table 2	BACT
0.10 lb/hr	3-Run Average	Stack Testing	See Table 2	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	See Table 2	BACT

Operational Limits & Reporting/Record keeping Requirements

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

Operational limits are not required at this time.

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

	EP-180	**EP-181**	**EP-182**
Stack Height, (ft, from the ground)	80.8	80.8	80.8
Stack Opening (inches)	48×48	48×48	48×48
Exhaust Flow Rate (scfm)	1,200	1,200	1,200
Exhaust Temperature (°F)	70	70	70
Discharge Style	Downward	Downward	Downward
Authority for Requirement	07-A-393-P	07-A-394-P	07-A-395-P

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-200

Associated Equipment
Associated Emission Unit ID Numbers: EU-200
Emissions Control Equipment ID Number: CE-200
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-200
Emission Unit Description: Unit #3 Flyash/FGD Waste Silo
Raw Material/Fuel: Flyash/FGD Waste
Rated Capacity: 2,850.0 tons

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
No Visible Emissions	NA	Stack Testing	DNR Construction Permit 06-A-766-P1	BACT
40%	6-Minutes Average	Stack Testing	DNR Construction Permit 06-A-766-P1 567 IAC 23.3(2) "d"	NA

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 06-A-766-P1	BACT
0.12 lb/hr	3-Run Average	Stack Testing	DNR Construction Permit 06-A-766-P1	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	DNR Construction Permit 06-A-766-P1	BACT

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

Reporting and Recordkeeping

A. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 06-A-766-P1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 137
Stack Opening, (inches): 8×30
Exhaust Flow Rate (scfm): 2,914
Exhaust Temperature (°F): 150
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 06-A-766-P1

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-201, EP-202, EP-203 (Unit #3 Flyash/FGD Waste Exhausters)

Associated Equipment

Table-1

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-201	EU-201	Unit #3 Flyash/FGD Waste Exhauster#1	Flyash/FGD Waste	51.0 ton/hr
EP-202	EU-202	Unit #3 Flyash/FGD Waste Exhauster#2	Flyash/FGD Waste	51.0 ton/hr
EP-203	EU-203	Unit #3 Flyash/FGD Waste Exhauster#3	Flyash/FGD Waste	51.0 ton/hr

Table-2

EP	EU	Emission Unit Description	CE& Description	DNR Construction Permit
EP-201	EU-201	Unit #3 Flyash/FGD Waste Exhauster#1	CE-201/Baghouse	06-A-767-P1
EP-202	EU-202	Unit #3 Flyash/FGD Waste Exhauster#2	CE-201 or CE-202/Baghouse	06-A-768-P1
EP-203	EU-203	Unit #3 Flyash/FGD Waste Exhauster#3	CE-202/Baghouse	08-A-636-P

Applicable Requirements

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

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
5%	1-Hr Average	Stack Testing	See Table-2	BACT
40%	6-Minutes Average	Stack Testing	Construction permits in Table-2 567 IAC 23.3(2) "d"	NA

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	See Table-2	BACT
0.14 lb/hr	3-Run Average	Stack Testing	See Table-2	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	3-Run Average	Stack Testing	See Table-2	BACT

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The facility is required to schedule a PM and PM10 compliance test within 30 days if it exceeds the one (1) hour, 5% opacity BACT limit.
B. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

Reporting and Recordkeeping

A. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit – See Table-2

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

	EP-201	**EP-202**	**EP-203**
Stack Height, (ft, from the ground)	30	30	30
Stack Opening (inches)	13.25	13.25	13.25
Exhaust Flow Rate (scfm)	3,296	3,296	3,296
Exhaust Temperature (°F)	255	255	255
Discharge Style	Vertical Unobstructed	Vertical Unobstructed	Vertical Unobstructed
Authority for Requirement	06-A-767-P1	06-A-768-P1	08-A-636-P

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-204, EP-205 (Unit #3 Lime Unloading Exhausters)

Associated Equipment

Table -1

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-204	EU-204	Unit #3 Lime Unloading Exhauster#1	Lime	25.0 ton/hr
EP-205	EU-205	Unit #3 Lime Unloading Exhauster#2	Lime	25.0 ton/hr

Table -2

EP	EU	Emission Unit Description	CE& Description	DNR Construction Permit
EP-204	EU-204	Unit #3 Lime Unloading Exhauster#1	CE-204: Baghouse	06-A-769-P1
EP-205	EU-205	Unit #3 Lime Unloading Exhauster#2		06-A-770-P1

Applicable Requirements

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

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
5%	1-Hr Average	Stack Testing	See Table 2	BACT
40%	6-Minutes Average	Stack Testing	Construction permits in Table2 567 IAC 23.3(2) "d"	NA

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.01 gr/dscf	3-Run Average	Stack Testing	See Table 2	BACT
0.14 lb/hr	3-Run Average	Stack Testing	See Table 2	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.01 gr/dscf	3-Run Average	Stack Testing	See Table 2	BACT

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The facility is required to schedule a PM and PM10 compliance test within 30 days if it exceeds the one (1) hour, 5% opacity BACT limit.

B. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

Reporting and Recordkeeping

A. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 06-A-769-P1; 06-A-770-P1

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

	EP-204	**EP-205**
Stack Height, (ft, from the ground)	40	40
Stack Opening (inches)	10.25	10.25
Exhaust Flow Rate (scfm)	1,633	1,633
Exhaust Temperature (°F)	180	180
Discharge Style	Vertical Unobstructed	Vertical Unobstructed
Authority for Requirement	06-A-769-P1	06-A-770-P1

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-207

Associated Equipment
Associated Emission Unit ID Numbers: EU-207
Emissions Control Equipment ID Number: CE-207
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-207
Emission Unit Description: Unit #3 Lime Silo
Raw Material/Fuel: Lime
Rated Capacity: 1,875.0 tons

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
No Visible Emissions	1-Hr Average	Stack Testing	DNR Construction Permit 06-A-772-P1	BACT
40%	6-Minutes Average	Stack Testing	DNR Construction Permit 06-A-772-P1 567 IAC 23.3(2) "d"	NA

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.01 gr/dscf	NA	Stack Testing	DNR Construction Permit 06-A-772-P1	BACT
0.24 lb/hr	3-Run Average	Stack Testing	DNR Construction Permit 06-A-772-P1	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.01 gr/dscf	NA	Stack Testing	DNR Construction Permit 06-A-772-P1	BACT

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

Reporting and Recordkeeping

A. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 06-A-772-P1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 143
Stack Opening, (inches): 10×15
Exhaust Flow Rate (scfm): 2,800
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 06-A-772-P1

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-208

Associated Equipment
Associated Emission Unit ID Numbers: EU-208
Emissions Control Equipment ID Number: CE-208
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-208
Emission Unit Description: Unit #3 Recycle Ash Silo
Raw Material/Fuel: Flyash/FGD Waste
Rated Capacity: 550 tons

Applicable Requirements

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
No Visible Emissions	1-Hr Average	Stack Testing	DNR Construction Permit 06-A-773-P1	BACT
40%	6-Minutes Average	Stack Testing	DNR Construction Permit 06-A-773-P1 567 IAC 23.3(2) "d"	NA

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	NA	Stack Testing	DNR Construction Permit 06-A-773-P1	BACT
0.06 lb/hr	3-Run Average	Stack Testing	DNR Construction Permit 06-A-773-P1	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	NA	Stack Testing	DNR Construction Permit 06-A-773-P1	BACT

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

Reporting and Recordkeeping

A. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit 06-A-773-P1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 114
Stack Opening, (inches): 8×14
Exhaust Flow Rate (scfm): 1,477
Exhaust Temperature (°F): 150
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 06-A-773-P1

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

Monitoring Requirements

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

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

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

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

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

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

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.
Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-209, EP-210, EP-211 (Unit #3 Flyash/FGD Recycle Exhausters)

Associated Equipment

Table-1

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-209	EU-209	Unit #3 Flyash/FGD Recycle Exhauster#1	Flyash/FGD Waste	74.50 ton/hr
EP-210	EU-210	Unit #3 Flyash/FGD Recycle Exhauster#2	Flyash/FGD Waste	74.50 ton/hr
EP-211	EU-211	Unit #3 Flyash/FGD Recycle Exhauster#3	Flyash/FGD Waste	74.50 ton/hr

Table-2

EP	EU	Emission Unit Description	CE& Description	DNR Construction Permit
EP-209	EU-209	Unit #3 Flyash/FGD Recycle Exhauster#1	CE-209: Baghouse	06-A-774-P1
EP-210	EU-210	Unit #3 Flyash/FGD Recycle Exhauster#2	CE-209 or CE-210: Baghouse	06-A-775-P1
EP-211	EU-211	Unit #3 Flyash/FGD Recycle Exhauster#3	CE-210: Baghouse	06-A-776-P1

Applicable Requirements

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

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
5%	1-Hr Average	Stack Testing	See Table 2 for permit numbers	BACT
40%	6-Minutes Average	Stack Testing	See Table 2 for permit numbers 567 IAC 23.3(2) "d"	NA

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	NA	Stack Testing	See Table 2 for permit numbers	BACT
0.18 lb/hr	3-Run Average	Stack Testing	See Table 2 for permit numbers	NAAQS

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	NA	Stack Testing	See Table 2 for permit numbers	BACT

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The facility is required to schedule a PM and PM10 compliance test within 30 days if it exceeds the one (1) hour, 5% opacity BACT limit.
B. The owner or operator shall inspect and maintain the control equipment according to manufacturer's specifications.

Reporting and Recordkeeping

A. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: DNR Construction Permit - See Table 2

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

	EP-209	**EP-210**	**EP-211**
Stack Height, (ft, from the ground)	34	34	34
Stack Opening (inches)	13.25	13.25	13.25
Exhaust Flow Rate (scfm)	4,113	4,113	4,113
Exhaust Temperature (°F)	255	255	255
Discharge Style	Vertical Unobstructed	Vertical Unobstructed	Vertical Unobstructed
Authority for Requirement	06-A-774-P1	06-A-775-P1	06-A-776-P1

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

Monitoring Requirements

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

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

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

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

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

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

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.
Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: EP-212

Associated Equipment

Table -1

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-212	EU-212	Mercury (Hg) Control Sorbent Storage Silo	Activate Carbon/Amended Silica Compounds	79 ton

Table -2

EP	EU	Emission Unit Description	CE& Description	DNR Construction Permit
EP-212	EU-212	Mercury (Hg) Control Sorbent Storage Silo	CE 212: Bin Vent Filter	14-A-461-P1

Applicable Requirements

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

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

Opacity

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
No visible emissions (No VE)	NA	Stack Testing	DNR Construction Permit 14-A-461-P1	BACT

Particulate Matter ($PM_{2.5}$)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.002 gr/dscf	Average of three (3) runs	Stack Testing	DNR Construction Permit 14-A-461-P1	BACT
0.013 lb/hr	Average of three (3) runs	Stack Testing	DNR Construction Permit 14-A-461-P1	None

Particulate Matter (PM_{10})

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	Average of three (3) runs	Stack Testing	DNR Construction Permit 14-A-461-P1	BACT
0.013 lb/hr	Average of three (3) runs	Stack Testing	DNR Construction Permit 14-A-461-P1	None

Particulate Matter (PM)

Limit	Averaging Period	Compliance Demonstration Method	Authority for Requirement	Other
0.005 gr/dscf	Average of three (3) runs	Stack Testing	DNR Construction Permit 14-A-461-P1	BACT
0.1 gr/dscf	Average of three (3) runs	Stack Testing	IAC 567 23.3(2)"a"	None

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits

A. The control equipment (CE 212) shall be inspected and maintained according to manufacturer's specifications.

Reporting and Recordkeeping

A. A record of all inspections and maintenance on the control equipment (CE 212).

Authority for Requirement: DNR Construction Permit 14-A-461-P1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 73
Stack Opening, (inches): 8×10
Exhaust Flow Rate (scfm): 900
Exhaust Temperature (°F): 68
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 14-A-461-P1

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

Monitoring Requirements

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 24.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 24.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 24.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 24.105(2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 24.108(1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 24.108(14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 24.108(9)"b"*
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 24.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—24.104(455B), permit expiration terminates a source’s right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—24.105(455B). *567 IAC 24.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 24.105(2). *567 IAC 24.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 24.107(4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the

identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 24.108(15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 24.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 24.108 (5)*

G6. Annual Fees

1. The permittee is required under subrule 567 IAC 30.4(2) to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.

    a. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.

    b. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.

    c. The fee shall be submitted annually by July 1 with forms specified by the department.

    d. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

    e. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.

    f. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 24.115(1)"d".

2. The permittee is required under subrule 567 IAC 30.4(3) to pay an annual base fee based on the fee schedule approved by the commission and posted on the department’s website. Beginning July 1, 2026, Title V operating base fees will be paid on July 1 of each year.

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 24.108 (15)"b"*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 24.108 (9)"e"*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:
1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 21.8(1)*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
    a. The date, place and time of sampling or measurements
    b. The date the analyses were performed.
    c. The company or entity that performed the analyses.
    d. The analytical techniques or methods used.
    e. The results of such analyses; and
    f. The operating conditions as existing at the time of sampling or measurement.
    g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
    a. Comply with all terms and conditions of this permit specific to each alternative scenario.
    b. Maintain a log at the permitted facility of the scenario under which it is operating.

c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 24.108(4), 567 IAC 24.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 24;

b. Compliance test methods specified in 567 Chapter 21; or

c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

a. Any monitoring or testing methods provided in these rules; or

b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 24.108(6)*

G13. Hazardous Release

Any permittee manufacturing, storing, handling, transporting, or disposing of a hazardous substance shall report a hazardous condition to the department at (515) 725-8694 and either the local police department or the office of the sheriff of the county where the hazardous condition occurred. The initial report shall be made as soon as possible but not later than six hours after the onset or discovery of the hazardous condition. This initial report must be followed up with a written report as indicated in 567 IAC 105.5(2). *567 IAC Chapter 105-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to

determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 21.10(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 21.10(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:

i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and expected duration of the excess emission.

iv. The cause of the excess emission.

v. The steps being taken to remedy the excess emission.

vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and duration of the excess emission.

iv. The cause of the excess emission.

v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

vi. The steps that were taken to limit the excess emission.

vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 21.7(1)-567 IAC 21.7(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control

of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The facility at the time was being properly operated;

c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and

d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. *567 IAC 24.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 24.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 24.

b. The changes do not exceed the emissions allowable under the permit (whether

expressed therein as a rate of emissions or in terms of total emissions);
c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—24.140(455B) through 567 - 24.144(455B));.
e. The changes comply with all applicable requirements.
f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,
ii. The date on which the change will occur,
iii. Any change in emission as a result of that change,
iv. The pollutants emitted subject to the emissions trade
v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 24.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 24.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 24.110(1). *567 IAC 24.110(3)*
4. The permit shield provided in subrule 24.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 24.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 24.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that does any of the following:

i. Correct typographical errors
ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the

source;

iii. Require more frequent monitoring or reporting by the permittee; or

iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Title V Permit Modification.

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

i. Do not violate any applicable requirement;

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;

iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification under rule 567 - 24.113(455B).

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;

ii. The permittee's suggested draft permit;

iii. Certification by a responsible official, pursuant to 567 IAC 24.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and

iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 24.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 24.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the

change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 24, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 24.111-567 IAC 24.113*

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. *567 IAC 22.1(1)*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations (*567 IAC 23.1(3)"a");* training fires and controlled burning of a demolished building *(567 IAC 23.2).*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. *567 IAC 23.2 <u>except</u> 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 24.108(7)*

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

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.

b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.

d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)

e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

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

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or

termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 24.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 24.108(17)"a", 567 IAC 24.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 24.114*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 24.114*

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 24.114*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

a. Such applicable requirements are included and are specifically identified in the permit; or

b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 24.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 24.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 24.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of 567 IAC 24.111(1). *567 IAC 24.111 (1)"d"*

G29. Disclaimer

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department’s request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the

department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks (42 days) of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 343-6589

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 21.10(7)"a", 567 IAC 21.10(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

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

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 313-8325

Reports or notifications to the DNR Field Offices shall be directed to the supervisor at the appropriate field office or local program. The current address and phone number is:

Field Office 4
1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

V. Appendix

Appendix A: CAM Plan for Coal Conveying Units

Compliance Assurance Monitoring Plan for Coal Conveying Units

I. Background

A. Emissions Unit:

Facility:	MidAmerican Energy Co. – Walter Scott, Jr. Energy Center
Identification	Description
EU-006	Rotary Car Dumper
EU-009	Transfer House #1 – Coal Conveying
EU-010	Transfer House #2 – Coal Conveying
EU-011	Transfer House #3 – Coal Conveying
EU-013	Transfer House #4 – Coal Conveying
EU-014	East Coal Silo #3 – Coal Conveying
EU-015	West Coal Silo #3 – Coal Conveying

B. Applicable Regulation, Emission Limit, and Monitoring Requirements:

EU	Regulation No.	Particulate Emission Limit	Opacity Emission Limit
EU-006	03-A-436-P1	0.005 gr/dscf for PM; 6.43 lb/hr for PM10	5%; 20%
EU-009	78-A-169-S5	1.31 lb/hr; 0.005 gr/dscf for PM10; PM has additional limit of 0.1 gr/dscf	20%
EU-010	03-A-438-P2	1.05 lb/hr; 0.0037 gr/dscf for PM10; 0.0037 gr/dscf for PM	0%; 20%
EU-011	78-A-171-S2	2.35 lb/hr for PM10; 0.1 gr/dscf for PM	No VE; 20%
EU-013	03-A-439-P2	1.14 lb/hr; 0.005 gr/dscf for PM10; 0.005 gr/dscf for PM	5%; 20%
EU-014	78-A-174-S4	1.14 lb/hr for PM10; 0.1 gr/dscf for PM	20%
EU-015	78-A-175-S3	0.98 lb/hr for PM10; 0.1 gr/dscf for PM	20%
Current Monitoring Requirements:		Daily visible emission monitoring	
Alternative Monitoring requirements:		In lieu of the visible emissions monitoring required below, the permittee may install and operate a bag leak detection system. If this option is chosen, the permittee shall following the monitoring approach listed under section III of this CAM plan.	

C. Control Technology: Baghouses

II. Monitoring Approach

A. Indicator

Visible emissions will be used as an indicator, along with weekly and annual performance inspections.

B. Measurement Approach

Daily:

- Visible emissions will be checked during the material handling operation of the unit.

Weekly:

- Check the cleaning sequence of the baghouses.
- Check hopper functions and performance.

Annually:

- Thoroughly inspect bags for leaks and wear.
- Inspect bag cleaning components.
- Inspect hopper unloading components.
- Inspect all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

C. Indicator Range

An excursion is defined as the presence of visible emissions.
Excursions trigger an inspection and corrective action.

D. Performance Criteria

Data representativeness:	Measurements are being made at the emission point (bag filer exhaust).
Verification of operational status:	Records of visible emissions readings, a log of performance, inspections, and any corrective actions will be maintained for five years.
QA/QC practices and criteria:	The observer will be familiar with Reference Method 22 and follow Method 22-like procedures
Monitoring frequency and data Collection procedure:	A 6-minute Method 22-like observation is performed daily, along with weekly and annual performance inspections. The visible emissions observation, a log of performance inspections, and any corrective actions are documented by the observer.

III. Alternative Monitoring Approach

i. Indicator to be Monitored: Bag leak detection monitor signal.

ii. Rationale for Monitoring Approach: Bag leak detectors that operate on principles such as triboelectric, electrostatic induction, light scattering, or light transmission, produce a signal that is proportional to the particulate loading in the baghouse outlet gas stream. When bag leaks occur, the cleaning peak height or baseline signal level will increase. Alarm levels based on increases in normal cleaning peak heights or the normal baseline signal can be set to detect filter bag leaks.

iii. Monitoring Locations: At the fabric filter outlet.

iv. Analytical Devices Required: Bag leak detector and associated instrumentation.

v. Data Acquisition and Measurement System Operation
- Frequency of measurement: Continuous.
- Reporting units: Amps, volts, or percent of scale.
- Recording process: Recorded automatically on strip chart or data acquisition system.

vi. Data Requirements
- Historical signal data showing baseline level and cleaning peak height during normal operation or signal data concurrent with emission testing.

vii. Specific QA/QC Procedures: Calibrate, maintain, and operate instrumentation using procedures that take into account manufacturer's specifications.

Appendix B: NSPS and NESHAP

A. 40 CFR 60 Subpart A – General Provisions
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-A

B. 40 CFR 60 Subpart D – Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-D

C. 40 CFR 60 Subpart Da – Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Da

D. 40 CFR 60 Subpart Y – Standards of Performance for Coal Preparation Plants and Processing Plants
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Y

E. 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-IIII

F. 40 CFR 63 Subpart A – General Provisions
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-A

G. 40 CFR 63 Subpart B – Requirements for Control Technology Determinations for Major Sources in Accordance With Clean Air Act Sections, Sections 112(g) and 112(j).
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-B

H. 40 CFR 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ

I. 40 CFR 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters (Boiler MACT)
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-DDDDD

J. 40 CFR 63 Subpart UUUUU – National Emission Standards for Hazardous Air Pollutants
https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-UUUUU

Appendix C: Acid Rain

Department of Natural Resources

AIR QUALITY
BUREAU
6200 Park Ave Ste 200

Phase II Acid Rain Permit

Issued to: Walter Scott, Jr. Energy Center
Operated by: MidAmerican Energy Company
ORIS code: 1082
Effective: July 10, 2025 – July 9, 2030

For the Director of the Department of Natural Resources

Marnie Stein 7/10/2025

Marnie Stein, Supervisor of Operating Permits Section Date

Acid Rain Permit comprises the following:

1) Statement of Basis.

2) SO_2 allowances allocated under this permit and NO_x requirements for each affected unit.

3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.

4) The permit application submitted for this source, as corrected by the Iowa Department of Natural Resources (IDNR), Air Quality Bureau, Operating Permit Section. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

1) Statement of Basis

Statutory and Regulatory Authorities: In accordance with Iowa Code paragraph 455B.133[8"a"], and Titles IV and V of the Clean Air Act, the Iowa Department of Natural Resources (IDNR), Air Quality Bureau, Operating Permit Section issues this permit pursuant to 567 Iowa Administrative Code (IAC) 24.135(455B) to 24.145(455B) and 567 IAC 24.100(455B) to 24.116(455B). The compliance options are approved as proposed in the attached application.

2) SO_2 Allowance Allocations and NO_x Requirements for each affected unit

		2025	2026	2027	2028	2029	2030
Unit 3	SO_2 allowances, under Table 2 of 40 CFR part 73.	15,985*	15,985*	15,985*	15,985*	15,985*	15,985*
	NO_x limit	Pursuant to 40 CFR part 76, The Iowa Department of Natural Resources approves a standard emissions limitation compliance plan for Unit 3. The NO_x compliance plan is effective from 7/10/2025 through 7/9/2030. Under the NO_x compliance plan, this unit's annual average NO_x emission rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the applicable emission limitation under 40 CFR 76.7(a)(2), which is 0.46 lbs/mmBtu for dry bottom wall-fired units. In addition to the described NO_x compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_x compliance plan and the requirements covering excess emissions.					
Unit 4	SO2 allowances, under Table 2 of 40 CFR part 73.	0*	0*	0*	0*	0*	0*

* The number of allowances allocated to Phase II affected units by U.S. EPA in 40 CFR part 73 Table 2 (Revised May 12, 2005). In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. Neither of the aforementioned conditions necessitate a revision to the unit SO_2 allowance allocations identified in this permit (See 40 CFR 72.84).

3) Comments, Notes and Justifications:

Fourth renewal of the Phase II SO_2 and NO_x permit.
Units 1 and 2 retired in 2015
Note: Unit 4 is not subject to Phase II NO_x because it is a new coal fired boiler.

4) Permit Application: Attached.

Appendix D: CSAPR Conditions

Transport Rule (TR) Trading Program Title V Requirements

Description of TR Monitoring Provisions

The TR subject unit(s), and the unit-specific monitoring provisions at this source, are identified in the following table(s). These unit(s) are subject to the requirements for the TR NO_X Annual Trading Program, TR NO_X Ozone Season Group 2 Trading Program and TR SO_2 Group 1 Trading Program.

Unit ID: 3 (ORIS Code: 1082) MidAmerican Energy Company - Walter Scott, Jr. Energy Center					
Parameter	Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR part 75, subpart B (for SO_2 monitoring) and 40 CFR part 75, subpart H (for NO_X monitoring)	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR part 75, appendix D	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR part 75, appendix E	Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR part 75, subpart E
SO_2	X		----------		
NO_X	X	----------			
Heat input	X		----------		

Unit ID: 4 (ORIS Code: 1082) MidAmerican Energy Company - Walter Scott, Jr. Energy Center					
Parameter	Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR part 75, subpart B (for SO_2 monitoring) and 40 CFR part 75, subpart H (for NO_X monitoring)	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR part 75, appendix D	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR part 75, appendix E	Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR part 75, subpart E
SO_2	X		----------		
NO_X	X	----------			
Heat input	X		----------		

1. The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.430 through 97.435 (TR NO_X Annual Trading Program), 97.830 through 97.835 (TR NO_X Ozone Season Group 2 Trading Program), and 97.630 through 97.635 (TR SO_2 Group 1 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable TR trading programs.

2. Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at https://www.epa.gov/airmarkets/monitoring-plans-part-75-sources#monMethod.

3. Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR part 75, subpart E and 40 CFR 75.66 and 97.435 (TR NO_X Annual Trading Program), 97.835 (TR NO_X Ozone Season Group 2 Trading Program) and/or 97.635 (TR SO_2 Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at http://www.epa.gov/airmarkets/part-75-petition-responses.

4. Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.430 through 97.434 (TR NO_X Annual Trading Program), 97.830 through 97.834 (TR NO_X Ozone Season Group 2 Trading Program) and/or 97.630 through 97.634 (TR SO_2 Group 1 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.435 (TR NO_X Annual Trading Program), 97.835 (TR NO_X Ozone Season Group 2 Trading Program) and/or 97.635 (TR SO_2 Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on EPA's website at http://www.epa.gov/airmarkets/part-75-petition-responses.

5. The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.430 through 97.434 (TR NO_X Annual Trading Program), 97.830 through 97.834 (TR NO_X Ozone Season Group 2 Trading Program) and 97.630 through 97.634 (TR SO_2 Group 1 Trading Program), and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add to or change this unit's monitoring system description.

TR NO_X Annual Trading Program requirements (40 CFR 97.406)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR NO_X Annual source and each TR NO_X Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of TR NO_X Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the TR NO_X Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_X emissions requirements.

(1) TR NO_X Annual emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_X Annual source and each TR NO_X Annual unit at the source shall hold, in the source's compliance account, TR NO_X Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NO_X emissions for such control period from all TR NO_X Annual units at the source.

(ii). If total NO_X emissions during a control period in a given year from the TR NO_X Annual units at a TR NO_X Annual source are in excess of the TR NO_X Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each TR NO_X Annual unit at the source shall hold the TR NO_X Annual allowances required for deduction under 40 CFR 97.424(d); and

(B). The owners and operators of the source and each TR NO_X Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(2) TR NO_X Annual assurance provisions.

(i). If total NO_X emissions during a control period in a given year from all TR NO_X Annual units at TR NO_X Annual sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_X emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_X Annual allowances available for deduction for such control period under 40 CFR 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such NO_X emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_X emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_X emissions from all TR NO_X Annual units at TR NO_X Annual sources in the state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the TR NO_X Annual allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or

midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NO_X emissions from all TR NO_X Annual units at TR NO_X Annual sources in the State during a control period in a given year exceed the state assurance level if such total NO_X emissions exceed the sum, for such control period, of the state NO_X Annual trading budget under 40 CFR 97.410(a) and the state's variability limit under 40 CFR 97.410(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart AAAAA or of the Clean Air Act if total NO_X emissions from all TR NO_X Annual units at TR NO_X Annual sources in the State during a control period exceed the state assurance level or if a common designated representative's share of total NO_X emissions from the TR NO_X Annual units at TR NO_X Annual sources in the state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold TR NO_X Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each TR NO_X Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(3) Compliance periods.

(i). A TR NO_X Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(ii). A TR NO_X Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A TR NO_X Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NO_X Annual allowance that was allocated for such control period or a control period in a prior year.

(ii). A TR NO_X Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO_X Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR NO_X Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart AAAAA.

(6) Limited authorization. A TR NO_X Annual allowance is a limited authorization to emit one ton of NO_X during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the TR NO_X Annual Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR NO_X Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_X Annual allowances in accordance with 40 CFR part 97, subpart AAAAA.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each TR NO_X Annual source and each TR NO_X Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each TR NO_X Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart AAAAA.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_X Annual Trading Program.

(2) The designated representative of a TR NO_X Annual source and each TR NO_X Annual unit at the source shall make all submissions required under the TR NO_X Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

(1) Any provision of the TR NO_X Annual Trading Program that applies to a TR NO_X Annual source or the designated representative of a TR NO_X Annual source shall also apply to the owners and operators of such source and of the TR NO_X Annual units at the source.

(2) Any provision of the TR NO_X Annual Trading Program that applies to a TR NO_X Annual unit or the designated representative of a TR NO_X Annual unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR NO_X Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_X Annual source or TR NO_X Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

TR NO_X Annual Trading Program requirements (40 CFR 97.406)

(h) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.

(i) Emissions monitoring, reporting, and recordkeeping requirements.

(3) The owners and operators, and the designated representative, of each TR NO_X Annual source and each TR NO_X Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(4) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of TR NO_X Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the TR NO_X Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(j) NO_X emissions requirements.

(8) TR NO_X Annual emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_X Annual source and each TR NO_X Annual unit at the source shall hold, in the source's compliance account, TR NO_X Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NO_X emissions for such control period from all TR NO_X Annual units at the source.

(ii). If total NO_X emissions during a control period in a given year from the TR NO_X Annual units at a TR NO_X Annual source are in excess of the TR NO_X Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each TR NO_X Annual unit at the source shall hold the TR NO_X Annual allowances required for deduction under 40 CFR 97.424(d); and

(B). The owners and operators of the source and each TR NO_X Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(9) TR NO_X Annual assurance provisions.

(i). If total NO_X emissions during a control period in a given year from all TR NO_X Annual units at TR NO_X Annual sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_X emissions during such control period exceeds the common designated representative's assurance level for the state and

such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_X Annual allowances available for deduction for such control period under 40 CFR 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such NO_X emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_X emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_X emissions from all TR NO_X Annual units at TR NO_X Annual sources in the state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the TR NO_X Annual allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NO_X emissions from all TR NO_X Annual units at TR NO_X Annual sources in the State during a control period in a given year exceed the state assurance level if such total NO_X emissions exceed the sum, for such control period, of the state NO_X Annual trading budget under 40 CFR 97.410(a) and the state's variability limit under 40 CFR 97.410(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart AAAAA or of the Clean Air Act if total NO_X emissions from all TR NO_X Annual units at TR NO_X Annual sources in the State during a control period exceed the state assurance level or if a common designated representative's share of total NO_X emissions from the TR NO_X Annual units at TR NO_X Annual sources in the state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold TR NO_X Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each TR NO_X Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(10) Compliance periods.

(i). A TR NO_X Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(ii). A TR NO_X Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(11) Vintage of allowances held for compliance.

(i). A TR NO_X Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NO_X Annual allowance that was allocated for such control period or a control period in a prior year.

(ii). A TR NO_X Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR

NO_X Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(12) Allowance Management System requirements. Each TR NO_X Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart AAAAA.

(13) Limited authorization. A TR NO_X Annual allowance is a limited authorization to emit one ton of NO_X during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the TR NO_X Annual Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(14) Property right. A TR NO_X Annual allowance does not constitute a property right.

(k) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_X Annual allowances in accordance with 40 CFR part 97, subpart AAAAA.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(l) Additional recordkeeping and reporting requirements.

(3) Unless otherwise provided, the owners and operators of each TR NO_X Annual source and each TR NO_X Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each TR NO_X Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart AAAAA.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_X Annual Trading Program.

(4) The designated representative of a TR NO_X Annual source and each TR NO_X Annual unit at the source shall make all submissions required under the TR NO_X Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or

otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(m)Liability.

(1) Any provision of the TR NO_X Annual Trading Program that applies to a TR NO_X Annual source or the designated representative of a TR NO_X Annual source shall also apply to the owners and operators of such source and of the TR NO_X Annual units at the source.

(2) Any provision of the TR NO_X Annual Trading Program that applies to a TR NO_X Annual unit or the designated representative of a TR NO_X Annual unit shall also apply to the owners and operators of such unit.

(n) Effect on other authorities.

No provision of the TR NO_X Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_X Annual source or TR NO_X Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

TR NO_X Ozone Season Group 2 Trading Program Requirements (40 CFR 97.806)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.813 through 97.818.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR NO_X Ozone Season Group 2 source and each TR NO_X Ozone Season Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.830 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.831 (initial monitoring system certification and recertification procedures), 97.832 (monitoring system out-of-control periods), 97.833 (notifications concerning monitoring), 97.834 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.835 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.830 through 97.835 shall be used to calculate allocations of TR NO_X Ozone Season Group 2 allowances under 40 CFR 97.811(a)(2) and (b) and 97.812 and to determine compliance with the TR NO_X Ozone Season Group 2 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.830 through 97.835 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_X emissions requirements.

(1) TR NO_X Ozone Season Group 2 emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_X Ozone Season Group 2 source and each TR NO_X Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, TR NO_X Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR 97.824(a) in an amount not less than the tons of total NO_X emissions for such control period from all TR NO_X Ozone Season Group 2 units at the source.

(ii). If total NO_X emissions during a control period in a given year from the TR NO_X Ozone Season Group 2 units at a TR NO_X Ozone Season Group 2 source are in excess of the TR NO_X Ozone Season emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each TR NO_X Ozone Season Group 2 unit at the source shall hold the TR NO_X Ozone Season Group 2 allowances required for deduction under 40 CFR 97.824(d); and

(B). The owners and operators of the source and each TR NO_X Ozone Season Group 2 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart EEEEE and the Clean Air Act.

(2) TR NO_X Ozone Season Group 2 assurance provisions.

(i). If total NO_X emissions during a control period in a given year from all TR NO_X Ozone Season Group 2 units at TR NO_X Ozone Season Group 2 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_X emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_X Ozone Season Group 2 allowances available for deduction for such control period under 40 CFR 97.825(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.825(b), of multiplying—

(A). The quotient of the amount by which the common designated representative's share of such NO_X emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_X emissions exceeds the respective common designated representative's assurance level; and

(B). The amount by which total NO_X emissions from all TR NO_X Ozone Season Group 2 units at TR NO_X Ozone Season Group 2 sources in the state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the TR NO_X Ozone Season Group 2 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NO_X emissions from all TR NO_X Ozone Season Group 2 units at TR NO_X Ozone Season Group 2 sources in the state during a control period in a given year exceed the state assurance level if such total NO_X emissions exceed the sum, for such control period, of the State NO_X Ozone Season Group 2 trading budget under 40 CFR 97.810(a) and the state's variability limit under 40 CFR 97.810(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart EEEEE or of the Clean Air Act if total NO_X emissions from all TR NO_X Ozone Season Group 2 units at TR NO_X Ozone Season Group 2 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO_X emissions from the TR NO_X Ozone Season Group 2 units at TR NO_X Ozone Season Group 2 sources in the state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold TR NO_X Ozone Season Group 2 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each TR NO_X Ozone Season Group 2 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart EEEEE and the Clean Air Act.

(3) Compliance periods.

(i). A TR NO_X Ozone Season Group 2 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.830(b) and for each control period thereafter.

(ii). A TR NO_X Ozone Season Group 2 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.830(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A TR NO_X Ozone Season Group 2 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NO_X Ozone Season Group 2 allowance that was allocated for such control period or a control period in a prior year.

(ii). A TR NO_X Ozone Season Group 2 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO_X Ozone Season Group 2 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR NO_X Ozone Season Group 2 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart EEEEE.

(6) Limited authorization. A TR NO_X Ozone Season Group 2 allowance is a limited authorization to emit one ton of NO_X during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the TR NO_X Ozone Season Group 2 Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR part 97, subpart EEEEE, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR NO_X Ozone Season Group 2 allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_X Ozone Season Group 2 allowances in accordance with 40 CFR part 97, subpart EEEEE.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.830 through 97.835, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring

system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.806(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each TR NO_X Ozone Season Group 2 source and each TR NO_X Ozone Season Group 2 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.816 for the designated representative for the source and each TR NO_X Ozone Season Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.816 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart EEEEE.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_X Ozone Season Group 2 Trading Program.

(2) The designated representative of a TR NO_X Ozone Season Group 2 source and each TR NO_X Ozone Season Group 2 unit at the source shall make all submissions required under the TR NO_X Ozone Season Group 2 Trading Program, except as provided in 40 CFR 97.818. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

(1) Any provision of the TR NO_X Ozone Season Group 2 Trading Program that applies to a TR NO_X Ozone Season Group 2 source or the designated representative of a TR NO_X Ozone Season Group 2 source shall also apply to the owners and operators of such source and of the TR NO_X Ozone Season Group 2 units at the source.

(2) Any provision of the TR NO_X Ozone Season Group 2 Trading Program that applies to a TR NO_X Ozone Season Group 2 unit or the designated representative of a TR NO_X Ozone Season Group 2 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR NO_X Ozone Season Group 2 Trading Program or exemption under 40 CFR 97.805 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_X Ozone Season Group 2 source or TR NO_X Ozone Season Group 2 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

TR SO_2 Group 1 Trading Program requirements (40 CFR 97.606)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.613 through 97.618.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR SO_2 Group 1 source and each TR SO_2 Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.630 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of TR SO_2 Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO_2 Group 1 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO_2 emissions requirements.

(1) TR SO_2 Group 1 emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO_2 Group 1 source and each TR SO2 Group 1 unit at the source shall hold, in the source's compliance account, TR SO_2 Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO_2 emissions for such control period from all TR SO_2 Group 1 units at the source.

(ii). If total SO_2 emissions during a control period in a given year from the TR SO_2 Group 1 units at a TR SO_2 Group 1 source are in excess of the TR SO_2 Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each TR SO_2 Group 1 unit at the source shall hold the TR SO_2 Group 1 allowances required for deduction under 40 CFR 97.624(d); and

(B). The owners and operators of the source and each TR SO_2 Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(2) TR SO_2 Group 1 assurance provisions.

(i). If total SO_2 emissions during a control period in a given year from all TR SO_2 Group 1 units at TR SO_2 Group 1 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO_2 emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR SO_2 Group 1 allowances available for deduction for such control period under 40 CFR 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.625(b), of multiplying—

(A). The quotient of the amount by which the common designated representative's share of such SO_2 emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such SO_2 emissions exceeds the respective common designated representative's assurance level; and

(B). The amount by which total SO_2 emissions from all TR SO_2 Group 1 units at TR SO_2 Group 1 sources in the state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the TR SO_2 Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total SO_2 emissions from all TR SO_2 Group 1 units at TR SO_2 Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO_2 emissions exceed the sum, for such control period, of the state SO_2 Group 1 trading budget under 40 CFR 97.610(a) and the state's variability limit under 40 CFR 97.610(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart CCCCC or of the Clean Air Act if total SO_2 emissions from all TR SO_2 Group 1 units at TR SO_2 Group 1 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total SO_2 emissions from the TR SO_2 Group 1 units at TR SO_2 Group 1 sources in the state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold TR SO_2 Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each TR SO_2 Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(3) Compliance periods.

(i). A TR SO_2 Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(ii). A TR SO_2 Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A TR SO_2 Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR SO_2 Group 1 allowance that was allocated for such control period or a control period in a prior year.

(ii). A TR SO_2 Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR SO_2 Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR SO_2 Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart CCCCC.

(6) Limited authorization. A TR SO_2 Group 1 allowance is a limited authorization to emit one ton of SO_2 during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the TR SO_2 Group 1 Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR part 97, subpart CCCCC, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR SO_2 Group 1 allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR SO_2 Group 1 allowances in accordance with 40 CFR part 97, subpart CCCCC.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.630 through 97.635, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR part 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E), Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each TR SO_2 Group 1 source and each TR SO_2 Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each TR SO_2 Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.616 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart CCCCC.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR SO_2 Group 1 Trading Program.

(2) The designated representative of a TR SO_2 Group 1 source and each TR SO_2 Group 1 unit at the source shall make all submissions required under the TR SO_2 Group 1 Trading Program, except as provided in 40 CFR 97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(e) Liability.

(1) Any provision of the TR SO_2 Group 1 Trading Program that applies to a TR SO_2 Group 1 source or the designated representative of a TR SO_2 Group 1 source shall also apply to the owners and operators of such source and of the TR SO_2 Group 1 units at the source.

(2) Any provision of the TR SO_2 Group 1 Trading Program that applies to a TR SO_2 Group 1 unit or the designated representative of a TR SO_2 Group 1 unit shall also apply to the owners and operators of such unit.

(f) Effect on other authorities.

No provision of the TR SO_2 Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR SO_2 Group 1 source or TR SO_2 Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.