Iowa Department of Natural Resources DRAFT 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

Expiration Date: **DATE**

Permit Renewal Application Deadline: **DATE**

EIQ Number: 92-3600

Facility File Number: 78-01-026

Responsible Official

Name: Mr. Richard Parker Title: General Manager

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Permit Contact Person for the Facility

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

For the Director of the Department of Natural Resources

Marnie Stein, Supervisor of Air Operating Permits Section Date

Table of Contents

I. Facility Description and Equipment List	5
II. Plant - Wide Conditions	7
III. Emission Point Specific Conditions	11
IV. General Conditions	139
G1.Duty to Comply	
G2.Permit Expiration	
G3.Certification Requirement for Title V Related Documents	
G4. Annual Compliance Certification	
G5.Semi-Annual Monitoring Report	
G6.Annual Fee	
G7.Inspection of Premises, Records, Equipment, Methods and Discharges	
G8.Duty to Provide Information	
G9.General Maintenance and Repair Duties	
G10. Recordkeeping Requirements for Compliance Monitoring	
G11. Evidence used in establishing that a violation has or is occurring.	
G12. Prevention of Accidental Release: Risk Management Plan Notification and Complia Certification	ance
G13. Hazardous Release	
G14. Excess Emissions and Excess Emissions Reporting Requirements	
G15. Permit Deviation Reporting Requirements	
G16. Notification Requirements for Sources That Become Subject to NSPS and NESHA	P
Regulations	
G17. Requirements for Making Changes to Emission Sources That Do Not Require Title Permit Modification	V
G18. Duty to Modify a Title V Permit	
G19. Duty to Obtain Construction Permits	
G20. Asbestos	
G21. Open Burning	
G22. Acid Rain (Title IV) Emissions Allowances	
G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements	
G24. Permit Reopenings	
G25. Permit Shield	
G26. Severability	
G27. Property Rights	
G28. Transferability	
G29. Disclaimer	
G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification	
G31. Prevention of Air Pollution Emergency Episodes	
G32. Contacts List	

V. Appendix:		
	CAM Plans	153
	NSPS and NESHAP	
	Acid Rain	
Appendix D:	CSAPR Conditions	<mark>158</mark>
	Executive Order 10 (EO10) Rules Crosswalk	
	Abbreviations	
acfm	actual cubic feet per minute	
	Best Available Control Technology	
	Code of Federal Regulation	
	control equipment	
	continuous emission monitor	
	degrees Fahrenheit	
	Iowa Department of Natural Resources	
	emissions inventory questionnaire	
	emission point	
EU		
	grains per dry standard cubic foot	
_	grains per one hundred cubic feet	
•	Iowa Administrative Code	
MACT	Maximum Achievable Control Technology	
	North American Industry Classification System	
	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		
	particulate matter	
	particulate matter ten microns or less in diameter	
SO ₂		
	nitrogen oxides	
	volatile organic compound	
	carbon monoxide	
	carbon dioxide	
	carbon dioxide equivalent	
	hazardous air pollutant	

I. Facility Description and Equipment List

Facility Name: MidAmerican Energy Company - Walter Scott Jr. Energy Center

Permit Number: 97-TV-001R4

Facility Description: Electric Services (SIC 4911)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
ED 002	EII 002	WSEC 3 Boiler - Coal	75 A 257 D10
EP-003	EU-003	WESC 3 Boiler - #2 Fuel Oil	75-A-357-P10
EP-006	EU-006	Dumper Building	03-A-436-P2
EP-009	EU-009	Transfer House #1 - Coal Conveying	78-A-169-S5
ED 010	EU-010	Transfer House #2 - Coal Conveying	02 A 429 D2
EP-010	EU-117A	Emergency Reclaim Hopper to Belt 8	O3-A-438-P2
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
•	EU-019A	CCR Monofill Disposal	
EP-019	EU-019B	CCR Monofill Grading	None
	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
	EU-031A	Stacker/Reclaimer	
EP-031	EU-031B	Stacker/Reclaimer	03-A-425-P5
EP-031	EU-031C	Stacker/Reclaimer	03-A-423-P3
	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
EP-141	EU-141	Unit #4 Boiler – Sub-bituminous Coal	03-A-423-P3
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
•	EU-005A	Coal Pile Bulldozing	
EP-005	EU-005B	Inactive Coal Pile	02 A 425 D5
	EU-005C	Active Coal Pile	03-A-425-P5
EP-151	EU-151	Rail Unloading Stockout	

Emission		DNR
	Emission Unit Description	Construction
	11-1-44 C1 C'1	Permit Number
		03-A-440-P2
	Č ,	07-A-385-P
		03-A-435-P1
		07-A-386-P
		03-A-434-P2
		03-A-442-P2
		07-A-387-P
EU-165B	Unit #4 Activated Carbon Silo	07-A-388-P
EU-167	Unit #4 Flyash/FGD Waste Silo	03-A-433-P3
EU-168	Unit #4 Flyash/FGD Waste Exhauster#1	03-A-430-P2
EU-169	Unit #4 Flyash/FGD Waste Exhauster#2	03-A-431-P2
EU-170	Unit #4 Flyash/FGD Waste Exhauster#3	03-A-432-P2
EU-171	Unit #4 Flyash/FGD Recycle Exhauster#1	07-A-389-P
EU-172	Unit #4 Flyash/FGD Recycle Exhauster#2	07-A-390-P
EU-173	Unit #4 Flyash/FGD Recycle Exhauster#3	07-A-391-P
EU-174	Unit #4 Flyash/FGD Recycle Silo	07-A-392-P2
EU-180	Unit #4 Water Treatment Area Lime Storage Silo A	07-A-393-P
EU-181	Unit #4 Water Treatment Area Lime Storage Silo B	07-A-394-P
EU-182	Unit #4 Water Treatment - Soda Ash Silo	07-A-395-P
EU-200	Unit #3 Flyash/FGD Waste Silo	06-A-766-P1
EU-201	•	06-A-767-P1
		06-A-768-P1
		08-A-636-P
	7	06-A-769-P1
	E	06-A-770-P1
	E	06-A-772-P1
		06-A-773-P1
		06-A-774-P1
		06-A-775-P1
		06-A-776-P1
		14-A-461-P1
	Unit Number EU-160 EU-161 EU-162A EU-162B EU-163 EU-164 EU-165A EU-165B EU-167 EU-168 EU-169 EU-170 EU-171 EU-172 EU-173 EU-174 EU-180 EU-181 EU-182	Unit Number EU-160 Unit #4 Coal Silos EU-161 Unit #4 Lime Storage Day Bin EU-162A Unit #4 Lime Exhauster #1 EU-162B Unit #4 Lime Exhauster #2 EU-163 Unit #4 Lime Silo EU-164 Unit #4 Lime Silo EU-165 Unit #4 Activated Carbon Silo EU-165 Unit #4 Flyash/FGD Waste Silo EU-167 Unit #4 Flyash/FGD Waste Exhauster#1 EU-168 Unit #4 Flyash/FGD Waste Exhauster#1 EU-169 Unit #4 Flyash/FGD Waste Exhauster#2 EU-170 Unit #4 Flyash/FGD Recycle Exhauster#1 EU-171 Unit #4 Flyash/FGD Recycle Exhauster#1 EU-172 Unit #4 Flyash/FGD Recycle Exhauster#2 EU-173 Unit #4 Flyash/FGD Recycle Exhauster#3 EU-174 Unit #4 Flyash/FGD Recycle Exhauster#3 EU-180 Unit #4 Water Treatment Area Lime Storage Silo A EU-181 Unit #4 Water Treatment - Soda Ash Silo EU-200 Unit #3 Flyash/FGD Waste Exhauster#1 EU-201 Unit #3 Flyash/FGD Waste Exhauster#1 EU-202 Unit #3 Flyash/FGD Waste Exhauster#1 EU-203 Unit #3 Flyash/FGD Waste Exhauster#1 EU-204 Unit #3 Flyash/FGD Waste Exhauster#1 EU-205 Unit #3 Flyash/FGD Waste Exhauster#1 EU-207 Unit #3 Flyash/FGD Waste Exhauster#1 EU-208 Unit #3 Flyash/FGD Recycle Exhauster#1 EU-209 Unit #3 Flyash/FGD Recycle Exhauster#2 EU-201 Unit #3 Flyash/FGD Recycle Exhauster#1 EU-202 Unit #3 Flyash/FGD Recycle Exhauster#1

Insignificant Activities Equipment List

Insignificant Emission	Insignificant Emission Unit Description
Unit Number	
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

Permit conditions are established in accord with 567 Iowa Administrative Code rule 24.108. When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 22. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024 and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix E.

Permit Duration

The term of this permit is: Five years from permit issuance date

Commencing on: **DATE**

Ending on: **DATE**

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 (SO₂): 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"

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 Coaland 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

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	СО	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 (PM₁₀):

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 (SO₂):

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 SO₂ 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 SO₂ as measured by a CEMS exceed the applicable standard in 40 CFR §60.43. Facilities complying with the thirty (30) day SO₂ standard shall use the most current associated SO₂ 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.

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

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

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
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^{(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 $\S60.44(b)$, when different fossil fuels are combusted simultaneously in any combination, the applicable standard (i $p_{S_{NOx}} = \text{ill}$ be determined by proration using the following formula:

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

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 SO₂ 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 Peri	iod	Compliance Demonstration Method	Authority for Requirement	Other
30.7 lb/hr	3-test run aver	erage	Stack Testing	DNR Construction Permit 75-A-357-P10	None

Carbon Dioxide (CO₂):

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).

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 (CH₄) and nitrous oxide (N₂O) 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

⁽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.

- 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 \S 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 (NOx) Annual, Nitrogen Oxides (NOx) Ozone Season Group 2,

Sulfur Dioxide (SO₂) 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
- 2nd Stack Test to be completed between 30 months and 42 months from permit issuance 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.

• SO₂:

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 (SO₂) 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 $\S60.45(a)$, 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 $\S60.45(b)$.

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 (O₂) or carbon dioxide (CO₂) content of the flue gases at each location where SO₂ 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 SO₂, NO_x, and either O₂ or CO₂ 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 SO₂, NO_x, CO, and CO₂ 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, SO₂, CO, or CO₂), 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 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.
- 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 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:

Construction Permit 75-A-357-P10 Regulation No.:

0.027 lb/MMBtu; 43 ng/J Heat Input; 911 Particulate Emission Limit:

ton/yr

10%, 20% **Opacity Emission Limit:**

Current Monitoring Requirements: Alarm of the Bag Leak Detection System

Fabric Filter C. Control Technology:

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 6month period.

D. Performance Criteria

The alarm system will sound when the particulate Data representativeness:

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.

The bag leak detection system shall operate continuously. Records of the readings shall be maintained for five years.

Monitoring frequency and data Collection procedure:

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 (PM₁₀)

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 PM₁₀ 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/yd²);
 - 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) – Within 2 years of permit issuance.
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 – PM₁₀ Stack Test to be Completed by (date) – Within 2 years of permit issuance. 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 <u>Appendix A for the CAM Plan</u> . 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 (PM₁₀)

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) – Within 2 years of permit issuance.

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) – Within 2 years of permit issuance.

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 No
Facility Maintained Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Compliance Assurance Monitoring (CAM) Plan Required? See <u>Appendix A</u> for the CAM Plan.	Yes 🖂 No 🗌

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
ED 010	EU-010	Transfer House #2 - Coal Conveying	Coal	3,200.0 ton/hr
EP-010	EU-117A	Emergency Reclaim Hopper to Belt 8	Coai	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 (PM₁₀)

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) – Within 2 years of permit issuance.
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? Facility Maintained Operation & Maintenance Plan Required?	Yes ☐ No ⊠ 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 – PM₁₀ Stack Test to be Completed by (date) – Within 2 years of permit issuance. 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? See Appendix A for the CAM Plan.	Yes 🛛 No 🗌

Authority for Requirement: 567 IAC 24.108(3)

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 (PM₁₀)

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 PM₁₀ 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) – Within 2 years of permit issuance.

Test Method - 40 CFR 60, Appendix A, Method 5

40 CFR 51 Appendix M Method 202

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 <u>Appendix A f</u> or the CAM Plan.	

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 (PM₁₀) 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? See Appendix A for the CAM Plan.	Yes 🛛 No 🗌

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"

Pollutant: Particulate Matter (PM₁₀)

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.

⁽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).

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? See Appendix A for the CAM Plan.	Yes 🛛 No 🗌

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/m². 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° F (1.7° 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° F (1.7° 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/yd²),
 - 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	Reau	irements

The owner/operator of this equipment shall comply with the monitoring	requirements listed
below.	requirements tisted
Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🔀
Facility Maintained Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🗌 No 🖂

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
	EU-019A	CCR Monofill Disposal	CCR Material	80 Trucks per Day
EP-019	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? Facility Maintained Operation & Maintenance Plan Required? Compliance Assurance Monitoring (CAM) Plan Required? Authority for Requirement: 567 IAC 24.108(3) Yes □ No □ Yes □ No □ Yes □ No □

47

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 🖂

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 🖂

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	CE005:	03-A-425-P5
EP-030	EU-030	Coal Conveying	Dust Suppressant	78-A-169-S5
EP-031	EU-031A	Stacker/Reclaimer		
	EU-031B	Stacker/Reclaimer	CE-005:	03-A-425-P5
	EU-031C	Stacker/Reclaimer	Dust Suppressant	U3-A-423-F3
	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/yd²),
- 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/yd²);
 - 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/yd²);
 - 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)	

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 (PM₁₀) 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 (SO₂) 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 below.	requirements listed
Agency Approved Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Facility Maintained Operation & Maintenance Plan Required?	Yes 🗌 No 🖂
Compliance Assurance Monitoring (CAM) Plan Required?	Yes 🗌 No 🖂

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 (PM₁₀) 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	g 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 🖂
A 4 1 (C B 1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	

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
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⁽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 (PM₁₀):

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 (SO₂):

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 (H₂SO₄)

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	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	One (1) Calendar	CEMS	DNR Construction	Case-by
lb/MMBtu	Day Average	CENIS	Permit 03-A-425-P5	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	One (1) Calendar	CEMS	DNR Construction	Case-by
lb/MMBtu	Day Average		Permit 03-A-425-P5	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.

Draft 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, SO₂, and PM emissions shall be submitted to the Administrator.
- I. Per 40 CFR §60.51Da(b), the following information for NO_x and SO₂ 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 (SO₂ 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_0^*) 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_0^*) 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 SO₂ 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 SO₂ 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 SO₂.
- 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 (MMft³ 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/MMft³) 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:

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

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 Coaland 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 \S 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 (SO₂) 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
- 2nd Stack Test to be completed between 30 months and 42 months from permit issuance 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 (SO₂) 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 (SO₂) emissions discharged to the atmosphere or
- (2) If the owner or operator has installed and certified a SO₂ CEMS according to the

requirements of 40 CFR §75.21 and 40 CFR 75, Appendix B, that CEMS may be used to meet the SO₂ monitoring requirements provided:

- (i) A CO₂ or O₂ 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 SO₂ emission limit in lb/MMBTU under §60.43Da:
 - (a) When relative accuracy testing is conducted, the SO₂ concentration data and the CO₂ (or O₂) data are collected simultaneously; and
 - (b) In addition to meeting the applicable SO₂ and CO₂ (or O₂) 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 SO₂ and CO₂ (or O₂) 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 SO₂ 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.

• *NOx:*

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 (O₂) or carbon dioxide (CO₂) content of the flue gases at each location where SO₂ 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(1), 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 SO₂, NO_x, and either O₂ or CO₂ 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 SO₂ concentration at the same location as the SO₂ 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 O₂ or CO₂ concentration at the same location as the O₂ or CO₂ 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 O₂, SO₂, and NO_x concentrations, respectively.
 - (2) SO₂ or NO_x (NO), as applicable, shall be used for preparing the calibration gas mixtures (in N₂, 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 SO₂ 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, SO₂, 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, SO₂, 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:

QA/QC practices and criteria:

The bag leak record will be kept for five years.

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.

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 (PM₁₀)

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)

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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 (SO₂)

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

¹0.20 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		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	Stack Testing	DNR Construction Permit	BACT
0.064 10/1VIIVIDtu	Average	Stack Testing	03-A-426-P2	DACI
28.84 lb/hr	3-Test Run	Stack Testing	DNR Construction Permit	NAAQS
	Average		03-A-426-P2	
400 ppmv @3% O ₂	3-Test Run	Stack Testing	DNR Construction Permit	NA
400 ppinv @ 5% O ₂	Average	Stack Testing	03-A-426-P2	11/1

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) 140 CER Part 62 Submert DDDDD

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)

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 (PM₁₀)

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 (SO₂)

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?

Facility Maintained Operation & Maintenance Plan Required?

Compliance Assurance Monitoring (CAM) Plan Required?

Yes No X

Yes No X

Authority for Requirement: 567 IAC 24.108(3)

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 (PM₁₀)

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 (SO₂)

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)

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 (PM₁₀)

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.

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

⁽²⁾ This is the required control efficiency of the drift eliminator (gallons of drift per gallon of cooling water flow).

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
	EU-005A	Coal Pile Bulldozing	Coal	3.0 dozer/hr
EP-005	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	
	EU-005B	CE-005A Encapsulating Chemical	NO	02 A 425 D5
	EU-005C	CE-005 Dust Suppressant	NO	03-A-425-P5
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/yd²),
 - 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/yd²),
 - 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/yd²);
 - 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

equirements listed
Yes 🗌 No 🖂
Yes 🗌 No 🖂
Yes 🗌 No 🖂

Authority for Requirement: 567 IAC 24.108(3)

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 (PM₁₀)

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 PM₁₀ 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)

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 (PM₁₀)

Limit	Averaging	Compliance	Authority for	Other	
	Period	Demonstration Method	Requirement		
0.005 gr/dscf	3-Run	Stack Testing	DNR Construction Permit	BACT	
0.003 g1/usc1	Average	Stack Testing	07-A-385-P	BACI	
0.03 lb/hr	3-Run	Cural-Tradina	DNR Construction Permit	NAAQS	
	Average	Stack Testing	07-A-385-P		

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	g 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	0.01 gr/dscf	0.01 or/deef	DNR Construction Permit
EP-102A	EU-102A	Emissions	0.01 gr/dsci	0.01 gr/dscf	03-A-435-P1
EP-162B	EU-162B	No Visible	0.005 cm/doof	0.005 cm/doof	DNR Construction Permit
EP-102D	EU-102B	Emissions	0.005 gr/dscf	0.005 gr/dscf	07-A-386-P

Other Emission Limits

EP	EU	Opacity	PM10	Authority of Requirement
EP-162A	EU-162A	No Visible	0.03 lb/hr	DNR Construction Permit 03-A-435-P1
EP-102A	EU-102A	Emissions	0.03 10/111	567 IAC 23.3(2) "d"
ED 162D	EU-162B	No Visible	0.02 lb/bm	DNR Construction Permit 07-A-386-P
EP-162B	EU-102B	Emissions	0.03 lb/hr	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	DNR Construction Permit
Authority for Requirement	03-A-435-P1	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

<u>Montoring Requirements</u>	
The owner/operator of this equipment shall comply with the monitoring	g 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)	

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 (PM₁₀)

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 🖂

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 (PM₁₀)

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	Limit Averaging Compliance Period 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 (PM₁₀)

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 (PM₁₀)

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 r below.	equirements listea
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.

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 PM₁₀ 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 (PM₁₀)

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

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 (°F): 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

Withittoring Requirements	
The owner/operator of this equipment shall comply with the monitoring	g 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	СЕМ	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	imit Averaging Compliance Period 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 (PM₁₀)

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

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	80.8	80.8	80.8
ground)			
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 below.	g requirements listed
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 (PM₁₀)

Limit Averaging Compliance Period 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

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	N	Io	nito	ring	Req	uir	ement	S
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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 (PM₁₀)

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

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	30	30	30
ground)			
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	Vertical	Vertical
	Unobstructed	Unobstructed	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)

<u>Associated Equipment</u>

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:	06-A-769-P1
EP-205	EU-205	Unit #3 Lime Unloading Exhauster#2	Baghouse	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 (PM₁₀)

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 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 (PM₁₀)

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

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 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 (PM₁₀)

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

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 Requirement

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 (PM₁₀)

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

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	34	34	34
ground)			
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	Vertical	Vertical
	Unobstructed	Unobstructed	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-	EU-212	Mercury (Hg) Control Sorbent	Activate Carbon/Amended	79 ton
212	EU-212	Storage Silo	Silica Compounds	/9 1011

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})

I di ticaidte i	14112.3)			
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 (PM₁₀)

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 (IAC). When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 22. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024, and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix E.

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 Fee

- 1. The permittee is required under subrule 567 IAC 24.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
- 2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
- 3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
- 4. The fee shall be submitted annually by July 1 with forms specified by the department.
- 5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
- 6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
- 7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
- 8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 24.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

- 1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- 3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- 4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. 567 IAC 24.108 (15)"b"

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

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). 567 IAC Chapter 131-State Only

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a

violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

- a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 21.10(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 21.10(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:
 - i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
 - ii. The estimated quantity of the excess emission.
 - iii. The time and expected duration of the excess emission.
 - iv. The cause of the excess emission.
 - v. The steps being taken to remedy the excess emission.
 - vi. The steps being taken to limit the excess emission in the interim period.
- b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:
 - i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
 - ii. The estimated quantity of the excess emission.
 - iii. The time and duration of the excess emission.
 - iv. The cause of the excess emission.

- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. 567 IAC 21.7(1)-567 IAC 21.7(4)

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(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 <u>not</u> required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is <u>not</u> 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 <u>not</u> 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
- 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 or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1

1101 Commercial Court, Suite 10 Manchester, IA 52057 (563) 927-2640

Field Office 3

1900 N. Grand Ave. Spencer, IA 51301 (712) 262-4177

Field Office 5

6200 Park Ave Suite 200 Des Moines, IA 50321 (515) 725-0268

Polk County Public Works Dept.

Air Quality Division 5885 NE 14th St. Des Moines, IA 50313 (515) 286-3351

Field Office 2

2300-15th St., SW Mason City, IA 50401 (641) 424-4073

Field Office 4

1401 Sunnyside Lane Atlantic, IA 50022 (712) 243-1934

Field Office 6

1023 West Madison Street Washington, IA 52353-1623 (319) 653-2135

Linn County Public Health

Air Quality Branch 1020 6th Street SE Cedar Rapids, IA 52401 (319) 892-6000

V. Appendix

Appendix A: CAM Plan for Coal Conveying Units

Compliance Assurance Monitoring Plan for Coal Conveying Units

I. Background

A.	Emi	ssions	Unit:
		•1•.	

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. <u>Control Technology:</u> 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 Records of visible emissions readings, a log of

status: 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

AIR QUALITY BUREAU 6200 Park Ave Ste 200

Draft Phase II Acid Rain Permit

Issued to:	Walter Scott, Jr. Energy Center
Operated by:	MidAmerican Energy Company

ORIS code: 1082

Effective: Five years from issuance

For the Director of the Department of Natural Resource	Fo	or the	Director	of the I	Department	t of Natural	Resource
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Marnie Stein, Supervisor of Operating Permits Section Date

Acid Rain Permit comprises the following:

- 1) Statement of Basis.
- 2) SO₂ allowances allocated under this permit and NO_x requirements for each affected unit.
- 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.
- 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) SO₂ Allowance Allocations and NO_x Requirements for each affected unit

		2025	2026	2027	2028	2029	2030		
	SO ₂ allowances, under Table 2 of 40 CFR part 73.	15,985*	15,985* 15,985* 15,985* 15,985* 15,985* 15,985*						
Unit 3	NO _x limit	approves a NO _x compliance determined applicable lbs/mmBtu In addition all other applicable applicable	standard em liance plan is e plan, this ur in accordar emission lir for dry botto to the descril oplicable req	issions limitates effective from the seffective from the seffectiv	ation compliand through the date through the date through the date of the date	nent of Natura nce plan for Ungh date. Un mission rate for 5, shall not 76.7(a)(2), what this unit shall 76, including nirements cov	Jnit 3. The der the NO _x for each year, exceed the hich is 0.46 comply with g the duty to		

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 SO₂ allowance allocations identified in this permit (See 40 CFR 72.84).

3) Comments, Notes and Justifications:

Fourth renewal of the Phase II SO₂ 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.



Acid Rain Permit Application

For more information, see instructions ar	nd 40 CFR 72.30 and 72.31.
This submission is: new revised	for ARP permit renewal

STEP 1

Identify the facility name, State, and plant (ORIS) code.

Walter Scott Jr. Energy Center	Iowa	1082
Facility (Source) Name	State	Plant Code

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
3	Yes
4	Yes
	Yes

Walter Scott Jr. Energy Center

Facility (Source) Name (from STEP 1)

STEP 3

Permit Requirements

Read the standard requirements.

- (1) The designated representative of each affected source and each affected unit at the source shall:
 - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
 - Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
 - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
 - (ii) Have an Acid Rain Permit.

Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall:
 - (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
 - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Walter Scott Jr. Energy Center

Facility (Source) Name (from STEP 1)

STEP 3, Cont'd. Excess Emissions Requirements

- (1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
 - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
 - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
 - (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
 - (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
 - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Walter Scott Jr. Energy Center

Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

Read the certification statement, sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name	Richard Parker	
Signature	Rund Pune	Date 10-6-2022



any unit utilizing stack)

(b)(2)

(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_X Averaging form) (I) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17(a)(2)(i)(C), (a)(2)(iii)(B), or

covering the facility.

STEP 1

STEP 2

United States

Environmental Protection Agency Acid Rain Program

OMB No. 2060-0258 Approval expires 12/31/2021

Acid Pain NO. Compliance Plan

		ation, see instruct	ions and refe		iic e i		Page 1	
TEP 1 ndicate plant name, State, nd Plant code from the current	Walter Scott Jr. Energy Center					lowa	1082	
tertificate of Representation overing the facility.	Plant Name					State	Plant Code	
TEP 2	Representation cyclone, "DBW"	covering the fa	cility. Also wall-fired, "`	indicate the bo F" for tangential	iler type: "CE ly fired, "V" fo	3" for cell or vertical	rent Certificate of burner, "CY" for ly fired, and "WB" ne appropriate row	
	Unit 3	Unit 4	ID#	ID#	ID#	I	D#	
	DBW Type	DBW Type	Туре	Type	Туре		- Type	
(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for <u>Phase</u> I dry bottom wall-fired boilers)								
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for <u>Phase</u> I tangentially fired boilers)								
(c) Standard annual average emission limitation of 0.46 lb/mmBtu (for <u>Phase</u> <u>Il</u> dry bottom wall-fired boilers)	X	X				,		
(d) Standard annual average emission limitation of 0.40 lb/mmBtu (for <u>Phase</u> <u>Il</u> tangentially fired boilers)								
(e) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)								
(f) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)								
(g) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)								
(h) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)								
(i) NO _X Averaging Plan (include NO _X Averaging form)								
(j) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to								

EPA Form 7610-28 (Revised 8-2019)

Walter Scott Jr. Energy Center	NO _x Compliance - Page 2
	Page 2 of 2
Plant Name (from Step 1)	

STEP 3

Identify the first calendar year in which this plan will apply.

2023 January 1,

STEP 4

Read the special provisions and certification, enter the name of the General. designated representative, sign and date.

Special Provisions

This source is subject to the standard requirements in 40 CFR 72.9. These requirements are listed in this source's Acid Rain Permit.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Richard Parker	
Signature A mud for	Date 10-6-2022

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 NOx Annual Trading Program, TR NOx Ozone Season Group 2 Trading Program and TR SO₂ 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 (OR)	Unit ID: 4 (ORIS Code: 1082)				
MidAmerican	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 SO₂ 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 SO₂ 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 SO₂ 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 SO₂ 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 SO₂ 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 NOx 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 NOx Annual source and each TR NOx 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 NOx 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 NOx 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 NOx emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NOx emissions from all TR NOx Annual units at TR NOx 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 NOx Ozone Season Group 2 source and each TR NOx 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 NOx 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 NOx emissions during a control period in a given year from all TR NOx Ozone Season Group 2 units at TR NOx 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 NOx 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 NOx 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 NOx 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 NOx 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 NOx Ozone Season Group 2 source and each TR NOx Ozone Season Group 2 unit at the source shall make all submissions required under the TR NOx 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 SO₂ 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 SO₂ Group 1 source and each TR SO₂ 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 SO₂ Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO₂ 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) SO₂ emissions requirements.

- (1) TR SO₂ 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 SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, TR SO₂ 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 SO₂ emissions for such control period from all TR SO₂ Group 1 units at the source.
 - (ii). If total SO₂ emissions during a control period in a given year from the TR SO₂ Group 1 units at a TR SO₂ Group 1 source are in excess of the TR SO₂ Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:
 - (A). The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall hold the TR SO₂ Group 1 allowances required for deduction under 40 CFR 97.624(d); and
 - (B). The owners and operators of the source and each TR SO₂ 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 SO₂ Group 1 assurance provisions.
 - (i). If total SO₂ emissions during a control period in a given year from all TR SO₂ Group 1 units at TR SO₂ 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 SO₂ 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 SO₂ 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 SO₂ 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 SO₂ emissions exceeds the respective common designated representative's assurance level; and
- (B). The amount by which total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state for such control period exceed the state assurance level.
- (ii). The owners and operators shall hold the TR SO₂ 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 SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO₂ emissions exceed the sum, for such control period, of the state SO₂ 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 SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ 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 SO₂ emissions from the TR SO₂ Group 1 units at TR SO₂ 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 SO₂ 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 SO₂ 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 SO₂ 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 SO₂ 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 SO₂ 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 SO₂ Group 1 allowance that was allocated for such control period or a control period in a prior year.
 - (ii). A TR SO₂ 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 SO₂ 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 SO₂ 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 SO₂ Group 1 allowance is a limited authorization to emit one ton of SO₂ 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 SO₂ 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 SO₂ 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 SO₂ 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 SO₂ Group 1 source and each TR SO₂ 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 SO₂ 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 SO₂ Group 1 Trading Program.
- (2) The designated representative of a TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall make all submissions required under the TR SO₂ 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 SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 source or the designated representative of a TR SO₂ Group 1 source shall also apply to the owners and operators of such source and of the TR SO₂ Group 1 units at the source.
- (2) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 unit or the designated representative of a TR SO₂ Group 1 unit shall also apply to the owners and operators of such unit.

(f) Effect on other authorities.

No provision of the TR SO₂ 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 SO₂ Group 1 source or TR SO₂ 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.

Appendix E: Executive Order 10 (EO10) Rules Crosswalk

Previous Chapter	Current	Previous Title and	Current Title and	Actions Taken
Number (Prior to	Chapter	Description (Prior to 5/15/2024)	Description	
5/15/2024)	Number	, , , , , , , , , , , , , , , , , , , ,		
20	20 (Reserved)	Scope of Title - Definitions	N/A	Definitions moved to Ch. 21, 22 and 23.
				Rescinded Ch. 20. (Reserved)
21	21	Compliance	Compliance, Excess Emissions, and	Kept and combined with rules from Chapters 24, 25, 26, and 29.
			Measurement of Emissions	
22	22	Controlling Pollution-Permits	Controlling Air Pollution - Construction	Kept construction permit rules and combined with Ch. 20 (definitions) and Ch. 28 (NAAQS).
			Permitting	
				Moved operating permit rules to Chapter 24.
22.100 - 22.300(12)	(New) 24	N/A	Operating Permits	Moved operating permit rules from Ch. 22 to Ch. 24.
23	23	Emission Standards	Air Emission Standards	Kept
24	(New) 21	Excess Emissions	Compliance, Excess Emissions, and	Moved rules and combined with Ch. 21.
			Measurement of Emissions	
				Moved TV rules here (to Ch. 24).
25	(New) 21	Emissions Measurement	Compliance, Excess Emissions, and	Moved rules and combined with Ch. 21.
			Measurement of Emissions	
				Rescinded Ch. 25. (Reserved)
26	(New) 21	Emergency Air Pollution Episodes	Compliance, Excess Emissions, and	Moved rules and combined with Ch. 21.
			Measurement of Emissions	
				Rescinded Ch. 26. (Reserved)
27	27	Local Program Acceptance	Local Program Acceptance	Kept
28	22	NAAQS	N/A	Moved rules and combined with Ch. 22.
				Rescinded Ch. 28. (Reserved)
29	(New) 21	Opacity Qualifications	Compliance, Excess Emissions, and	Moved rules and combined with Ch. 21.
			Measurement of Emissions	
				Rescinded Ch. 29. (Reserved)
30	30	Fees	Fee	Kept
31	31	Nonattainment Areas	Nonattainment New Source Review	Kept
32	N/A	AFO Field Study	N/A	Rescinded Ch. 32. (Reserved)
33	33	Special regulations and construction permit		Kept
		requirements for major stationary	stationary sources—Prevention of significant	
		sources—Prevention of significant	deterioration (PSD)	
		deterioration (PSD) of air quality		
34	N/A	Emissions Trading-CAIR-CAMR	N/A	Rescinded Ch. 34. (Reserved)
35	N/A	Grant Assistance Programs	N/A	Rescinded Ch. 35. (Reserved)

1

Previous Chapter	Current	Previous Title and	Current Title and	Actions Taken
Number (Prior to	Chapter	Description (Prior to 5/15/2024)	Description	
5/15/2024)	Number			
20	20 (Reserved)	Scope of Title - Definitions	N/A	Definitions moved to Ch. 21, 22 and 23.
				Rescinded Ch. 20. (Reserved)
20.1	N/A	Scope of title	N/A	
20.2	Ch. 21, 22, 23	Definitions	Definitions	See beginning of Ch. 21, 22, and 23
20.3	N/A	Air quality forms generally	N/A	

21	21	Compliance	Compliance, Excess Emissions, and	Kept and combined with rules from Chapters 24, 25, 26, and 29.
			Measurement of Emissions	
21.1	21.1	Compliance Schedule	Definitions and compliance requirements	Added definitions from Ch. 21, some language updated
21.2	21.2	Variances	Variances	Some language updated
21.3	21.3	Emission reduction program	Reserved	Reserved
21.4	21.4	Circumvention of rules	Circumvention of rules	Minor language updated
21.5	21.5	Evidence used in establishing that a violation has	Evidence used in establishing that a violation has	21.5(2) Reserved, some language updated
		or is occurring	occurred or is occurring	
21.6	21.6	Temporary electricity generation for disaster	Temporary electricity generation for disaster	Minor language updated
		situations	situations	
24.1	21.7	Excess emission reporting	Excess emission reporting	Moved from Ch. 24, some language updated
24.2	21.8	Maintenance and repair requirements	Maintenance and repair requirements	Moved from Ch. 24, some language updated
N/A	21.9	N/A	Compliance with other requirements	New language
25.1	21.10	Testing and sampling of new and existing	Testing and sampling of new and existing	Moved from Ch. 25, some language updated
		equipment	equipment	
25.2	21.11	Continuous emission monitoring under the acid	Continuous emission monitoring under the acid	Moved from Ch. 25, some language updated
		rain program	rain program	
25.3	N/A	Mercury emissions testing and monitoring	N/A	Rescinded. Except 25.3(5)
25.3(5)	21.12	Affected sources subject to Section 112(g)	Affected sources subject to Section 112(g)	Moved from Ch. 25, some language updated
29.1	21.13	Methodology and qualified observer	Methodology and qualified observer	Moved from Ch. 29, some language updated
26.1	21.14	Prevention of air pollution emergency episodes -	Prevention of air pollution emergency episodes	Moved from Ch. 26, some language updated
		General		
26.2	21.15	Episode criteria	Episode criteria	Moved from Ch. 26, some language updated
26.3	21.16	Preplanned abatement strategies	Preplanned abatement strategies	Moved from Ch. 26, some language updated
26.4	21.17	Actions taken during episodes	Actions taken during episodes	Moved from Ch. 26, some language updated
Ch 26 Table III	Table I	Abatement strategies emission reduction actions	Abatement strategies emission reduction actions	Moved from Ch. 26, reference federal appendix table
		alert level	alert level	
Ch 26 Table IV	Table II	Abatement strategies emission reduction actions	Abatement strategies emission reduction actions	Moved from Ch. 26, reference federal appendix table
		warning level	warning level	
Ch 26 Table V	Table III	Abatement strategies emission reduction actions	Abatement strategies emission reduction actions	Moved from Ch. 26, reference federal appendix table
		emergency level	emergency level	

22	22	Controlling Pollution-Permits	Controlling Air Pollution - Construction	Kept construction permit rules and combined with Ch. 20 (definitions) and Ch. 28 (NAAQS).
			Permitting	
				Moved operating permit rules to Chapter 24.
22.1	22.1	Permits required for new or existing stationary	Definitions and permit requirements for new or	Added definitions from Ch. 20, some language updated
		sources	existing stationary sources	
22.2	22.2	Processing permit applications	Processing permit applications	
22.3	22.3	Issuing permits	Issuing permits	
22.4	22.4	Special requirements for major stationary	Major stationary sources located in areas	
		sources located in areas designated attainment	designated attainment or unclassified (PSD)	
		or unclassified (PSD)		
22.5	22.5	Special requirements for nonattainment areas	Major stationary sources located in areas	
			designated Nonattainment	
22.6	22.6	Nonattainment area designations	Reserved	

Number (Prior to	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
22.7	22.7	Alternative emission control program	Alternative emission control program	
22.8	22.8	Permit by rule	Permit by rule	
22.9	22.9	Special requirements for visibility protection	Special requirements for visibility protection	A lot of language updated or removed
22.10	22.10	elevators, country grain terminal elevators, grain	Permitting requirements for country grain elevators, country grain terminal elevators, grain terminal elevators and feed mill equipment	
28.1	22.11	Ambient air quality standards - Statewide standards	Ambient air quality standards	Moved from Ch. 28, minor language updated
22.12 to 22.99	N/A	Reserved	N/A	Removed

22.100 - 22.300(12)	(New) 24	N/A	Operating Permits	Moved operating permit rules from Ch. 22 to Ch. 24.
22.100	24.100	Definitions for Title V operating permits	Definitions for Title V operating permits	Moved from Ch. 22, some language updated, many 40 CFR 70 definitions adopted by reference
22.101	24.101	Applicability of Title V operating permit	Applicability of Title V operating permit	Moved from Ch. 22, some language updated to correct punctuation and remove old dates
		requirements	requirements	
22.102	24.102	Source category exemptions	Source category exemptions	Moved from Ch. 22, some language updated to correct punctuation
22.103	24.103	Insignificant activities	Insignificant activities	Moved from Ch. 22, some language updated to correct typos and remove old dates
22.104	24.104	Requirement to have a Title V permit	Requirement to have a Title V permit	Moved from Ch. 22, some language updated no changes to rule text
22.105	24.105	Title V permit applications	Title V permit applications	Moved from Ch. 22, updated language to address electronic submissions and remove past application due dates
22.106	24.106	Annual Title V emissions inventory	Annual Title V emissions inventory	Moved from Ch. 22, no changes to rule text
22.107	24.107	Title V permit processing procedures	Title V permit processing procedures	Moved from Ch. 22, some language updated to update locations of public records and remove old CFR amendment dates
22.108	24.108	Permit content	Permit content	Moved from Ch. 22, some language updated to correct punctuation, remove old dates, and adopt 40 CFR 70 rules by reference
22.109	24.109	General permits	General permits	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.110	24.110	Changes allowed without a Title V permit revision (off-permit revisions)	Changes allowed without a Title V permit revision (off-permit revisions)	Moved from Ch. 22, some language updated to remove redundant language
22.111	24.111		Administrative amendments to Title V permits	Moved from Ch. 22, no changes to rule text
22.112	24.112	Minor Title V permit modifications	Minor Title V permit modifications	Moved from Ch. 22, no changes to rule text
22.113	24.113	Significant Title V permit modifications	Significant Title V permit modifications	Moved from Ch. 22, no changes to rule text
22.114	24.114	Title V permit reopenings	Title V permit re-openings	Moved from Ch. 22 to Ch. 24, some language updated to adopt 40 CFR 70 rules by reference
22.115	24.115	Suspension, termination, and revocation of Title V permits	Suspension, termination, and revocation of Title V permits	Moved from Ch. 22, no changes to rule text
22.116	24.116	Title V permit renewals	Title V permit renewals	Moved from Ch. 22, no changes to rule text
22.117-22.119	24.117-24.119	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.120	24.120	Acid rain program—definitions	Acid rain program—definitions	Moved from Ch. 22, some language updated to remove old CFR amendment dates and address electronic submissions
22.121	24.121	Measurements, abbreviations, and acronyms	Reserved	Moved from Ch. 22, no changes to rule text
22.122	24.122	Applicability	Applicability	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.123	24.123	Acid rain exemptions	Acid rain exemptions	Moved from Ch. 22, some language updated to correct punctuation
22.124	24.124	Retired units exemption	Reserved	Moved from Ch. 22, no changes to rule text
22.125	24.125	Standard requirements	Standard requirements	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.126	24.126	Designated representative—submissions	Designated representative—submissions	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.127	24.127	Designated representative—objections	Designated representative—objections	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.128	24.128	Acid rain applications—requirement to apply	Acid rain applications—requirement to apply	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference

3

22.129	24.129	Information requirements for acid rain permit	Information requirements for acid rain permit	Moved from Ch. 22, no changes to rule text
		applications	applications	
Previous Chapter	Current	Previous Title and	Current Title and	Actions Taken
Number (Prior to	Chapter	Description (Prior to 5/15/2024)	Description	
•		Description (1 1101 to 5) 15/2024)	Description	
5/15/2024)	Number			
22.130	24.130	Acid rain permit application shield and binding	Acid rain permit application shield and binding	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
		effect of permit application	effect of permit application	
22.131	24.131	Acid rain compliance plan and compliance	Acid rain compliance plan and compliance	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
		options—general	options—general	
22.132	24.132	Repowering extensions	Reserved	Moved from Ch. 22, no changes to rule text
22.133	24.133	Acid rain permit contents—general	Acid rain permit contents—general	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.134	24.134	Acid rain permit shield	Acid rain permit shield	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.135	24.135	Acid rain permit issuance procedures—general	Acid rain permit issuance procedures—general	Moved from Ch. 22, no changes to rule text
22.136	24.136	Acid rain permit issuance	Acid rain permit issuance	Moved from Ch. 22, no changes to rule text
22.427	24.427	procedures—completeness	procedures—completeness	March Con Ch. 22 and a control of the L
22.137	24.137	Acid rain permit issuance procedures—statement	Acid rain permit issuance procedures—statement	INIOVED From Cn. 22, no changes to rule text
22.422	24.422	of basis	of basis	
22.138	24.138	Issuance of acid rain permits	Issuance of acid rain permits	Moved from Ch. 22, some language updated to remove old dates and deadlines
22.139	24.139	Acid rain permit appeal procedures	Acid rain permit appeal procedures	Moved from Ch. 22, no changes to rule text
22.140	24.140	Permit revisions—general	Permit revisions—general	Moved from Ch. 22, some language updated to remove old dates
22.141	24.141	Permit modifications	Permit modifications	Moved from Ch. 22, no changes to rule text
22.142	24.142	Fast-track modifications	Fast-track modifications	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.143	24.143	Administrative permit amendment	Administrative permit amendment	Moved from Ch. 22, some language updated to remove fax option
22.144	24.144	Automatic permit amendment	Automatic permit amendment	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.145	24.145	Permit reopenings	Permit re-openings	Moved from Ch. 22, language updated to adopt 40 CFR 70 rules by reference
22.146	24.146	Compliance certification—annual report	Compliance certification—annual report	Moved from Ch. 22, no changes to rule text
22.147	24.147	Compliance certification—units with repowering extension plans	Reserved	Moved from Ch. 22, no changes to rule text
22.148	24.148	Sulfur dioxide opt-ins	Sulfur dioxide opt-ins	Moved from Ch. 22, some language updated to update the 40 CFR Part 74 amendment date
22.149 - 22.199	24.149 - 24.299	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.200	24.200 - 24.299	Definitions for voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.201	24.200 - 24.299	Eligibility for voluntary operating permits	Reserved	Moved from Ch. 22, no changes to rule text
22.203	24.200 - 24.299	Voluntary operating permit applications	Reserved	Moved from Ch. 22, no changes to rule text
22.204	24.200 - 24.299	Voluntary operating permit fees	Reserved	Moved from Ch. 22, no changes to rule text
22.205	24.200 - 24.299	Voluntary operating permit processing procedures	Reserved	Moved from Ch. 22, no changes to rule text
22.206	24.200 - 24.299	Permit content	Reserved	Moved from Ch. 22, no changes to rule text
22.207	24.200 - 24.299	Relation to construction permits	Reserved	Moved from Ch. 22, no changes to rule text
22.208	24.200 - 24.299	Suspension, termination, and revocation of	Reserved	Moved from Ch. 22, no changes to rule text
		voluntary operating permits		
22.209	24.200 - 24.299	Change of ownership for facilities with voluntary	Reserved	Moved from Ch. 22, no changes to rule text
-		operating permits		,
22.210 - 22.299	24.200 - 24.299	Reserved	Reserved	Moved from Ch. 22, no changes to rule text
22.300	24.300	Operating permit by rule for small sources	Operating permit by rule for small sources	Moved from Ch. 22, no changes to rule text
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23	23	Emission Standards	Air Emission Standards	Kept
23.1	23.1	Emission standards	Emission standards	Kept, language updated, tables used
23.2	23.2	Open burning	Open burning	Kept, some language updated
23.3	23.3	Specific contaminants	Specific contaminants	Kept, some language updated
23.4	23.4	Specific processes	Specific processes	Kept, some language updated
23.5	23.5	Anaerobic lagoons	Anaerobic lagoons	Kept, some language updated
23.6	23.6	Alternative emission limits (the "bubble	Reserved	Removed
		concept")		

AQB Rule Tracking Crossv	vaik			
Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
24	(New) 21	Excess Emissions	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21.
				Moved operating permit rules here (to Ch. 24).
24.1	21.7	Excess emission reporting	Excess emission reporting	Moved from Ch. 24, some language updated
24.2	21.8	Maintenance and repair requirements	Maintenance and repair requirements	Moved from Ch. 24, some language updated
25	(New) 21	Emissions Measurement	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21.
25.1	21.10	Testing and sampling of new and existing equipment	Testing and sampling of new and existing equipment	Rescinded Ch. 25. (Reserved) Moved from Ch. 25, some language updated
25.2	21.11	Continuous emission monitoring under the acid rain program	Continuous emission monitoring under the acid rain program	Moved from Ch. 25, some language updated
25.3		Mercury emissions testing and monitoring	N/A	Rescinded. Except 25.3(5)
25.3(5)	21.12	Affected sources subject to Section 112(g)	Affected sources subject to Section 112(g)	Moved from Ch. 25, some language updated
26	(New) 21	Emergency Air Pollution Episodes	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21. Rescinded Ch. 26. (Reserved)
26.1	21.14	Prevention of air pollution emergency episodes - General	Prevention of air pollution emergency episodes	Moved from Ch. 26, some language updated
26.2	21.15	Episode criteria	Episode criteria	Moved from Ch. 26, some language updated
26.3	21.16	Preplanned abatement strategies	Preplanned abatement strategies	Moved from Ch. 26, some language updated
26.4	21.17	Actions taken during episodes	Actions taken during episodes	Moved from Ch. 26, some language updated
Ch 26 Table III	Table I	Abatement strategies emission reduction actions alert level	Abatement strategies emission reduction actions alert level	Moved from Ch. 26, reference federal appendix table
Ch 26 Table IV	Table II	Abatement strategies emission reduction actions warning level	Abatement strategies emission reduction actions warning level	Moved from Ch. 26, reference federal appendix table
Ch 26Table V	Table III	Abatement strategies emission reduction actions emergency level	Abatement strategies emission reduction actions emergency level	Moved from Ch. 26, reference federal appendix table
27	27	Local Program Acceptance	Local Program Acceptance	Kept
27.1	27.1	General	General	Kept, some language updated
27.2	27.2	Certificate of acceptance	Certificate of acceptance	Kept, some language updated
27.3	27.3	Ordinance or regulations	Ordinance or regulations	Kept, some language updated
27.4	27.4	Administrative organization	Administrative organization	Kept, some language updated
27.5	27.5	Program activities	Program activities	Kept, some language updated
28	22	NAAQS	N/A	Moved rules and combined with Ch. 22.
				Rescinded Ch. 28. (Reserved)
28.1	22.11	Ambient air quality standards - Statewide standards	Ambient air quality standards	Moved from Ch. 28, minor language updated Rescinded Ch. 28. (Reserved)
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29	(New) 21	Opacity Qualifications	Compliance, Excess Emissions, and Measurement of Emissions	Moved rules and combined with Ch. 21.
	1			Rescinded Ch. 29. (Reserved)
29.1	21.13	Methodology and qualified observer	Methodology and qualified observer	Moved from Ch. 29, some language updated

5

Previous Chapter	Current	Previous Title and	Current Title and	Actions Taken
				ACTIONS Taken
Number (Prior to	Chapter	Description (Prior to 5/15/2024)	Description	
5/15/2024)	Number			
30	30	Fees	Fee	Kept
30.1	30.1	Purpose	Purpose	Kept, language updated
30.2	30.2	Fees associated with new source review	Fees associated with new source review	Kept, some language updated
30.2	30.2	applications	applications	Rept, some language updated
30.3	30.3	Fees associated with asbestos demolition or	Fees associated with asbestos demolition or	Kept, some language updated
50.5	30.3	renovation notification	renovation notification	The property some tanguage aparted
30.4	30.4	Fees associated with Title V operating permits	Fees associated with Title V operating permits	Kept, some language updated
		,		
30.5	30.5	Fee advisory groups	Fee advisory groups	Kept, language updated
30.6	30.6	Process to establish or adjust fees and	Process to establish or adjust fees and	Kept, some language updated
		notification of fee rates	notification of fee rates	
30.7	30.7	Fee revenue	Reserved	Language removed
31	31	Nonattainment Areas	Nonattainment New Source Review	Kept
31.1	31.1	Permit requirements relating to nonattainment	Permit requirements relating to nonattainment	Kept, some language updated
		areas	areas	
31.2	31.2	Conformity of general federal actions to the Iowa	Reserved	Language removed
		state implementation plan or federal		
		implementation plan - Rescinded		
31.3	31.3	Nonattainment new source review requirements	Nonattainment new source review (NNSR)	Kept, some language updated
		for areas designated nonattainment on or after	requirements for areas designated	
		May 18, 1998	nonattainment	
31.4	31.4	Preconstruction review permit program	Preconstruction review permit program	Kept
31.5 - 31.8	31.5 - 31.8	Reserved	Reserved	Kept
31.9	31.9	Actuals PALs	Actuals PALs	Kept, some language updated
31.10	31.10	Validity of rules	Validity of rules	Kept
31.11 - 31.19	N/A	Reserved	N/A	Rescinded and removed
31.20	N/A	Special requirements for nonattainment areas	N/A	Rescinded and removed
		designated before May 18, 1998		
	10.10		1	
32	N/A	AFO Field Study	N/A	Rescinded Ch. 32. (Reserved)
32.1	N/A	Animal feeding operations field study	N/A	Rescinded, reserved, and language removed
32.2	N/A	Definitions	N/A	Rescinded, reserved, and language removed
32.3	N/A	Exceedance of the health effects value (HEV) for	N/A	Rescinded, reserved, and language removed
22.4	21/2	hydrogen sulfide	N/A	Destination of the second section of the section of the second section of the section of the second section of the
32.4	N/A	Exceedance of the health effects standard (HES)	N/A	Rescinded, reserved, and language removed
22.5	N/A	for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.5	IN/A	Iowa Air Sampling Manual	N/A	rescribed, reserved, and language removed
33	33	Special regulations and construction permit	Construction permit requirements for major	Kont
33	33	-		in the purious section of the purious section is a section of the purious section of the pu
		requirements for major stationary	stationary sources—Prevention of	
		sources—Prevention of significant	significant deterioration (PSD)	
		deterioration (PSD) of air quality		
33.1	33.1	Purpose	Purpose	Kept, some language updated
33.2	33.2	Reserved	Reserved	Kept
33.3	33.3	Special construction permit requirements for	PSD construction permit requirements for major	Kept, some language updated
		major stationary sources in areas designated	stationary sources	
		attainment or unclassified (PSD)		
33.4 - 33.8	33.4 - 33.8	Reserved	Reserved	Kept
33.9	33.9	Plantwide applicability limitations (PALs)	Plantwide applicability limitations (PALs)	Kept, some language updated
33.10 IRM 06/19/2024	33.10	Exceptions to adoption by reference	Exceptions to adoption by reference	Kept, some language updated

33.10 | 33.10 | Exceptions to adoption by reference | Exceptions to adoption by reference | Kept, some language updated | JRM 06/19/2024

Previous Chapter	Current	Previous Title and	Current Title and	Actions Taken
Number (Prior to	Chapter	Description (Prior to 5/15/2024)	Description	Testonia rancin
•	-	Description (Filor to 3/13/2024)	Description	
5/15/2024)	Number			
34	N/A	Emissions Trading-CAIR-CAMR	N/A	Rescinded Ch. 34. (Reserved)
34.1	N/A	Purpose	N/A	Rescinded, reserved, and language removed
34.2 - 34.199	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.200	N/A	Provisions for air emissions trading and other	N/A	Rescinded, reserved, and language removed
		requirements for the Clean Air Interstate Rule		
		(CAIR) - rescinded		
34.201	N/A	CAIR NOx annual trading program general	N/A	Rescinded, reserved, and language removed
		provisions - rescinded		
34.202	N/A	CAIR designated representative for CAIR NOx	N/A	Rescinded, reserved, and language removed
		sources - rescinded		
34.203	N/A	Permits - rescinded	N/A	Rescinded, reserved, and language removed
34.204	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.205	N/A	CAIR NOx allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.206	N/A	CAIR NOx allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed
34.207	N/A	CAIR NOx allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
34.208	N/A	Monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.209	N/A	CAIR NOx opt-in units - rescinded	N/A	Rescinded, reserved, and language removed
34.210	N/A	CAIR SO2 trading program - rescinded	N/A	Rescinded, reserved, and language removed
34.211 - 34.219	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.220	N/A	CAIR NOx ozone season trading program - rescinded	N/A	Rescinded, reserved, and language removed
34.221	N/A	CAIR NOx ozone season trading program general	N/A	Rescinded, reserved, and language removed
		provisions - rescinded		
34.222	N/A	CAIR designated representative for CAIR NOx ozone season sources - rescinded	N/A	Rescinded, reserved, and language removed
34.223	N/A	CAIR NOx ozone season permits - rescinded	N/A	Rescinded, reserved, and language removed
34.224	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.225	N/A	CAIR NOx ozone season allowance allocations -	N/A	Rescinded, reserved, and language removed
	'	rescinded		
34.226	N/A	CAIR NOx ozone season allowance tracking	N/A	Rescinded, reserved, and language removed
		system - rescinded		
34.227	N/A	CAIR NOx ozone season allowance transfers -	N/A	Rescinded, reserved, and language removed
24.222		rescinded	10.140	
34.228	N/A	CAIR NOx ozone season monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.229	N/A	CAIR NOx ozone season opt-in units - rescinded	N/A	Rescinded, reserved, and language removed
34.230 - 34.299	N/A	Reserved	N/A	Rescinded, reserved, and language removed
34.300	N/A	Provisions for air emissions trading and other	N/A	Rescinded, reserved, and language removed
	,	requirements for the Clean Air Mercury Rule (CAMR) - rescinded	,	
34.301	N/A	Mercury (Hg) budget trading program general provisions - rescinded	N/A	Rescinded, reserved, and language removed
34.302	N/A	Hg designated representative for Hg budget	N/A	Rescinded, reserved, and language removed
24 202	N/A	sources - rescinded	NI/A	Descinded recogned and language removed
34.303	N/A	General Hg budget trading program permit requirements - rescinded	N/A	Rescinded, reserved, and language removed
34.304	N/A	Hg allowance allocations - rescinded	N/A	Rescinded, reserved, and language removed
34.305	N/A	Hg allowance tracking system - rescinded	N/A	Rescinded, reserved, and language removed

AQB Rule Tracking Crosswalk

34.306	N/A	Hg allowance transfers - rescinded	N/A	Rescinded, reserved, and language removed
Previous Chapter	Current	Previous Title and	Current Title and	Actions Taken
Number (Prior to 5/15/2024)	Chapter Number	Description (Prior to 5/15/2024)	Description	
34.307	N/A	Monitoring and reporting - rescinded	N/A	Rescinded, reserved, and language removed
34.308	N/A	Performance specifications - rescinded	N/A	Rescinded, reserved, and language removed

35	N/A	Grant Assistance Programs	N/A	Rescinded Ch. 35. (Reserved)
35.1	N/A	Purpose	N/A	Rescinded, reserved, and language removed
35.2	N/A	Definitions	N/A	Rescinded, reserved, and language removed
35.3	N/A	Role of the department of natural resources	N/A	Rescinded, reserved, and language removed
35.4	N/A	Eligible projects	N/A	Rescinded, reserved, and language removed
35.5	N/A	Forms	N/A	Rescinded, reserved, and language removed
35.6	N/A	Project selection	N/A	Rescinded, reserved, and language removed
35.7	N/A	Funding sources	N/A	Rescinded, reserved, and language removed
35.8	N/A	Type of financial assistance	N/A	Rescinded, reserved, and language removed
35.9	N/A	Term of loans	N/A	Rescinded, reserved, and language removed
35.10	N/A	Reduced award	N/A	Rescinded, reserved, and language removed
35.11	N/A	Fund disbursement limitations	N/A	Rescinded, reserved, and language removed
35.12	N/A	Applicant cost share	N/A	Rescinded, reserved, and language removed
35.13	N/A	Eligible costs	N/A	Rescinded, reserved, and language removed
35.14	N/A	Ineligible costs	N/A	Rescinded, reserved, and language removed
35.15	N/A	Written agreement	N/A	Rescinded, reserved, and language removed
35.16	N/A	Financial assistance denial	N/A	Rescinded, reserved, and language removed

JRM 06/19/2024 8