Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: **MidAmerican Energy Company**
George Neal South
Facility Location: **2761 Port Neal Circle**
Salix, IA 51052
Air Quality Operating Permit Number: 97-TV-003R1-M001
Expiration Date: March 16, 2011

EIQ Number: 92-3599
Facility File Number: 97-04-011

Responsible Official
Mr. Steven J. Brewer
Vice President – Supply
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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

Douglas A. Campbell, Supervisor of Air Operating Permits Section Date

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Abbreviations

acfm.....actual cubic feet per minute
BIF .....boilers and industrial furnaces
BHP.....brake horsepower
CFR.....Code of Federal Regulation
CE .....control equipment
CEM.....continuous emission monitor
^{o}F .....degrees Fahrenheit
EIQ.....emissions inventory questionnaire
EP.....emission point
EU .....emission unit
gr./dscf .....grains per dry standard cubic foot
gr./100 cf.....grains per one hundred cubic feet
IAC.....Iowa Administrative Code
IDNR.....Iowa Department of Natural Resources
MVAC.....motor vehicle air conditioner
NAICS.....North American Industry Classification System
NSPS.....new source performance standard
ppmv .....parts per million by volume
lb./hr.....pounds per hour
lb./MMBtu .....pounds per million British thermal units
SCC.....Source Classification Codes
scfm.....standard cubic feet per minute
SIC .....Standard Industrial Classification
TPY .....tons per year
USEPA.....United States Environmental Protection Agency

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

I. Facility Description and Equipment List

Facility Name: MidAmerican Energy Company - George Neal South
Permit Number: 97-TV-003R1-M001
Facility Description: Electric Utility (SIC 4911)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
001	001a	Coal Storage Pile: Bulldozing Coal	
001	001b	Coal Storage Pile: Open Storage	
002	002	Ash Hauling	
003	003	Neal 4 Boiler (Pulverized coal, dry-bottom wall fired unit)	05-A-655-P
004	004	Flyash Truck Loading	
005	005a	Flyash Storage Pile - Grading	
005	005b	Flyash Storage Pile - Topsoil Unloading,	
005	005c	Flyash Storage Pile - Wind Erosion	
006	006	Transfer Tower #3 - Coal Conveying	77-A-322-S1
007	007a	Tower #1 - Coal Conveying	77-A-320-S2
007	007b	Tower #1 - Coal Conveying	77-A-320-S2
007c	007c	Tower 1 Bin Vent	05-A-688
008	008	Transfer Tower #2 - Coal Conveying	77-A-321-S1
009	009	Coal Silos and Tripper - Coal Conveying	77-A-323-S1
010	010a	Coal UnloadingPit: Coal Hopper – Feeder	77-A-319-S2
010	010b	Coal Unloading Pit: Feeder – Belt #1	77-A-319-S2
010	010c	Coal Unloading Pit: Belt #1 – Belt #2	77-A-319-S2
011	011	Inactive Flyash Storage Pile	
012	012	Diesel Generator (1300 BHP)	96-A-1281-S2
016	016	Ethylene Glycol Storage	
017	017	Transfer Tower #2 Glycol Storage Tank	
018	018	Transfer Tower #1 Glycol Storage Tank	
022	022	Flyash Storage Silo B	78-A-148
023	023	Flyash Storage Silo A	78-A-147
041	041	Diesel Engine for Emergency Fire Pump (266 BHP)	
045	045	Coal Unloading (Fugitive)	
046	046a	3 Belt-Boom Coal Conveying	05-A-689
046	046b	Boom Belt-3Belt Coal Conveying	05-A-689
046	046c	Stockout Coal Conveying	05-A-689
046	046d	Reclaim Wheel Coal Conveying	05-A-689
046	046e	Elevator Belt – Boom Belt	05-A-689
051	051	Water Lab Fume Hood (FH3)	01-A-1149

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
013	Transfer Tower - #2 Heating Boiler
014	Transfer Tower #1 Heating Boiler
015	Solvent Parts Cleaning
019	Turbine Lube Oil Tank (8,550 gallons)
020	Diesel UST (2,000 gallons)
026	Unit 4 Fuel Oil Tank (500,000 gallons)
027	Turbine Lube Oil Conditioner (1,850 gallons)
028	Bead Blaster
029	Diesel Tank (275 gallons)
033	Turbine Lube Oil Batch Tank (12,000 gallons)
035	Hydrazine Solution Tank
037	Unleaded Gasoline UST (1,000 gallons)
040	Welding Operations
057	Fire Pump (275 gallons)
050	Water Lab Fume Hood (FH1) 01-A-1148[(1)]
052	Water Lab Fume Hood (FH3) 01-A-1150[(1)]
053	Oil Lab Fume Hood (FH4) 01-A-1151[(1)]
054	Oil Lab Fume Hood (FH5) 01-A-1152[(1)]
055	Oil Lab Fume Hood (FH6) 01-A-1153[(1)]
056	Lab Warehouse (FH7) 01-A-1154[(1)]
058	Coal Yard AST 1
059	Coal Yard AST 2
060	Transfer Tower 2
061	Economizer Ash Truck Loading
062	Bottom Ash Truck Loading A
063	Bottom Ash Truck Loading B
064	Economizer Ash Bin Vent

[(1)] The construction permit associated with this emission unit does not contain any specific terms or conditions, therefore it qualifies as an insignificant activity per rule 567 IAC 22.103.

II. Plant-Wide Conditions

Facility Name: MidAmerican Energy Company - George Neal South
Permit Number: 97-TV-003R1-M001

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

Permit Duration

The term of this permit is: Five years
Commencing on: March 17, 2006
Ending on: March 16, 2011

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

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

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

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

Particulate Matter (state enforceable only)[2]:
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 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 Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a" (as revised 7/21/1999)

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[2] Pending approval into Iowa's State Implementation Plan (SIP), paragraph 567 IAC 23.3(2)"a" (as revised 7/21/1999) is considered *state enforceable only*.

Particulate Matter[3]:
The emission of particulate matter from any process shall not exceed the amount determined from Table I, except as provided in 567 — 21.2(455B), 23.1(455B), 23.4(455B) and 567 — Chapter 24. If the director determines that a process complying with the emission rates specified in Table I is causing or will cause air pollution in a specific area of the state, an emission standard of 0.1 grain per standard cubic foot of exhaust gas may be imposed.
Authority for Requirement: 567 IAC 23.3(2)"a" (prior to 7/21/1999)

Fugitive Dust: Attainment and Unclassified Areas - 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, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. 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 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 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, fertilizers 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.

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

Compliance Plan
The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, George Neal South is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, George Neal South shall comply with such requirements in a timely manner.
Authority for Requirement: 567 IAC 22.108(15)

[3] Paragraph 567 IAC 23.3(2)"a" (prior to 7/21/1999) is the general particulate matter emission standard currently in the Iowa SIP.

40 CFR 63 Subpart ZZZZ Requirements

This facility is subject to National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines – 40 CFR 63 subpart ZZZZ and the affected unit is EU 12 (Diesel Generator) because it has the rated capacity of 1300 BHP which is greater than the threshold of 500 BHP. 40 CFR 63.6590(a).

Because the affected unit is an existing stationary RICE, the facility does not have to meet the requirements of this subpart and of subpart A of part 63. No initial notification is necessary according to 40 CFR 63.6590(b)(3).

Authority for Requirement: 40 CFR 63 Subpart ZZZZ

III. Emission Point-Specific Conditions

Facility Name: MidAmerican Energy Company - George Neal South
Permit Number: 97-TV-003R1-M001

Emission Point ID Number: 001

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 001a and 001b

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Emission Unit vented through this Emission Point: 001a
Emission Unit Description: Coal Storage Pile - Bulldozing Coal
Raw Material/Fuel: Coal
Rated Capacity: Potential is based on 2 bulldozers operating

Emission Unit vented through this Emission Point: 001b
Emission Unit Description: Coal Storage Pile - Open Storage
Raw Material/Fuel: Coal
Rated Capacity: 26.90 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.

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"

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 22.108(3)

Emission Point ID Number: 002

Associated Equipment

Associated Emission Unit ID Number: 002
Emissions Control Equipment ID Number: CE001
Emissions Control Equipment Description: Water Spray

Emission Unit vented through this Emission Point: 002
Emission Unit Description: Ash Haul Road
Raw Material/Fuel: Ash
Rated Capacity: 5.4 vehicle miles/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: 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"

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 22.108(3)

Emission Point ID Number: 003

Associated Equipment

Associated Emission Unit ID Number: 003
Emissions Control Equipment ID Number: CE002, CE003
Emissions Control Equipment Description: Electrostatic Precipitator, Over Fire Air Ports and Low NO_x Burners
Continuous Emissions Monitors ID Numbers: ME001A (SO_2), ME001B (NO_x), ME001C (Diluent CO_2), ME001D (Flow), ME001E (Opacity) and ME001F (CO)

Emission Unit vented through this Emission Point: 003
Emission Unit Description: Neal 4 Boiler (Pulverized coal, dry-bottom wall-fired unit)
Raw Material/Fuel: Coal (Auxiliary Fuels: #2 fuel oil, used oil, used ethylene glycol, and small quantity hazardous waste per EPA BIF notification IAD000678052)
Rated Capacity: 6,900 MMBtu/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limits: 20% except for one 6-minute period per hour of not more than 27% opacity
Authority for Requirement: Iowa DNR Construction Permit 05-A-655-P
567 IAC 23.1(2)"a"
40 CFR 60.42(a)(2)

Pollutant: Particulate Matter
Emission Limits: 0.10 lb/MMBtu, 43ng/J heat input
Authority for Requirement: Iowa DNR Construction Permit 05-A-655-P
567 IAC 23.1(2)"a"
40 CFR 60.42(a)(1)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 1.20 lb/MMBtu, 520 ng/J heat input, 3-hour rolling average basis
Authority for Requirement: Iowa DNR Construction Permit 05-A-655-P
567 IAC 23.1(2)"a"
40 CFR 60.43(a)(2)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: Sulfur Dioxide Allowances
Authority for Requirement: 567 IAC 22.108(7) (Attached Phase II Permit)

Pollutant: Nitrogen Oxides (NO_x)
Emission Limits: 0.70 lb/MMBtu, 300 ng/J heat input, 3 hour rolling average basis
7,555.5 Tons/yr
Authority for Requirement: Iowa DNR Construction Permit 05-A-655-P
567 IAC 23.1(2)"a"
40 CFR 60.44(a)(3)

Pollutant: Nitrogen Oxides (NO_x)
Emission Limits: See attached Phase II Permit
Authority for Requirement: 567 IAC 22.125(4) (Attached Phase II Permit)
40 CFR 76.5(a)(2)

Pollutant: Carbon Monoxide (CO)
Emission Limits: 8,694 lb/hr, 0.42 lb/MMBtu, 12,693 Tons/Yr
Authority for Requirement: Iowa DNR Construction Permit 05-A-655-P

Operational Limits & Requirements

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

NSPS Requirements:

The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. 40 CFR 60.7(b)

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve

compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)"a"

Used Oil and Used Ethylene Glycol Requirements:
The burning of used oil and used ethylene glycol in this emission unit is limited to that which is generated on-site.
Authority for Requirement: 567 IAC 22.108(3)

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

Stack Height (feet, from the ground): 469
Stack Opening (inches, dia.): 300
Exhaust Flow Rate (scfm): 2,168,100
Exhaust Temperature (^{o}F): 300
Discharge Style: Vertical Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 05-A-655-P

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the Monitoring requirements listed below.
Stack Testing:
Pollutant - Particulate Matter
1st Stack Test to be Completed by (date) – March 16, 2007
2nd Stack Test to be Completed between (dates) – September 17, 2008 and September 16, 2009
Test Method - EPA Method 5
Authority for Requirement - 567 IAC 22.108(3)

Continuous Emissions Monitoring:
Pollutant - Opacity
Operational Specifications - 40 CFR Part 75, Part 60 Subpart A, and D
Initial System Calibration/Quality Assurance - 7/94
Ongoing System Calibration/Quality Assurance - 40 CFR Part 75, Part 60 Subpart A, and D
Reporting & Record keeping - 40 CFR Part 75, Part 60 Subpart A, and D
Authority for Requirement - 567 IAC 25.1(1), 567 IAC 25.2, and 567 IAC 23.1(2)"a"

Pollutant - Sulfur Dioxide (SO_2)
Operational Specifications - 40 CFR Part 75, Part 60 Subpart A, and D

Initial System Calibration/Quality Assurance - 7/94
Ongoing System Calibration/Quality Assurance - 40 CFR Part 75, Part 60 Subpart A, and D
Reporting & Record keeping - 40 CFR Part 75, Part 60 Subpart A, and D
Authority for Requirement - 567 IAC 25.2 and 567 IAC 23.1(2)"a"

Pollutant - Nitrogen Oxides (NO_x)
Operational Specifications - 40 CFR Part 75, Part 60 Subpart A, and D
Initial System Calibration/Quality Assurance - 7/94
Ongoing System Calibration/Quality Assurance - 40 CFR Part 75, Part 60 Subpart A, and D
Reporting & Record keeping - 40 CFR Part 75, Part 60 Subpart A, and D
Authority for Requirement - 567 IAC 25.2 and 567 IAC 23.1(2)"a"

Pollutant – Carbon Monoxide (CO)
Operational Specifications - 40 CFR Part 75, Part 60 Subpart A, and D
Initial System Calibration/Quality Assurance - To be completed by June 1, 2006
Ongoing System Calibration/Quality Assurance - 40 CFR Part 75, Part 60 Subpart A, and D
Reporting & Record keeping - 40 CFR Part 75, Part 60 Subpart A, and D
Authority for Requirement - 567 IAC 25.2 and 567 IAC 23.1(2)"a"

Other Parameters

Pollutant - Carbon Dioxide (CO_2)
Operational Specifications - 40 CFR Part 75, Part 60 Subpart A, and D
Initial System Calibration/Quality Assurance - 7/94
Ongoing System Calibration/Quality Assurance - 40 CFR Part 75, Part 60 Subpart A, and D
Reporting & Record keeping - 40 CFR Part 75, Part 60 Subpart A, and D
Authority for Requirement - 567 IAC 25.2 and 567 IAC 23.1(2)"a"

Pollutant - Flow Rate
Operational Specifications - 40 CFR Part 75, Part 60 Subpart A, and D
Initial System Calibration/Quality Assurance - 7/94
Ongoing System Calibration/Quality Assurance - 40 CFR Part 75, Part 60 Subpart A, and D
Reporting & Record keeping - 40 CFR Part 75, Part 60 Subpart A, and D
Authority for Requirement - 567 IAC 25.2 and 567 IAC 23.1(2)"a"

The owner of this equipment or his 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 tests 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 22.108(3)

Compliance Assurance Monitoring Plan
Electrostatic Precipitator for PM Control

I. Background

A. Emissions Unit:
Description: Neal 4 Boiler, Dry-Bottom Pulverized Coal Unit
Identification: EU 003
Facility: MidAmerican Energy Company, George Neal South

B. Applicable Regulation, Emission Limit, and Monitoring Requirements:
Regulation No.: Permit 05-A-655-P
Particulate emission limit: 0.10 lb/MMBtu PM
Opacity emission limit: 20%
Current Monitoring requirements: Stack Testing
Continuous opacity monitoring system (COMS)
Audible Precipitator Malfunction Alarm

C. Control Technology: Electrostatic Precipitator

II. Monitoring Approach

1. Indicator	Opacity of ESP exhaust	Audible Precipitator Malfunction Alarm
Measurement Approach	COMS in ESP exhaust	The audible alarm will continuously monitor T-R set failure and rapper control malfunction, combined with daily inspections of the ESP electro-mechanical operation as the monitoring method.
2. Indicator Range	When the opacity exceeds 20% over any 6-minute average, corrective action will be implemented within 8 hours plus the period of time until generating capacity is available to meet consumer demand. An exceedance of the 20% opacity limit, except for one 6-minute period per hour of not more than 27% opacity, is considered a violation, and shall be reported as required in General Condition G14.	The precipitator malfunction alarm will continuously monitor T-R set failure and rapper control malfunction. Corrective action measures will be implemented on the occurrence of a precipitator malfunction alarm. The appropriate measures for remediation will be implemented within 8 hours plus the period of time until generating capacity is available to meet consumer demand. Random T-R set failure and rapper failure (up to five T-R sets and 20% of the rappers per precipitator section) will not significantly affect precipitator performance. Failure of more than five T-R sets or 20% of the rappers is an abnormal condition.
3. Performance Criteria	Install the COMS at a representative	Rapper system operation, T-R set

II. Monitoring Approach

A. Data Representativeness	location in the ESP exhaust per 40 CFR 60, Appendix B, Performance Specification 1 (PS-1).	operation and ash removal system operation are indicators of the proper electro-mechanical operation of the electrostatic precipitator. An audible alarm will continuously monitor T-R set failure and rapper control health. Daily inspection of the rapper system operation, T-R set and ash removal system provides additional assurance of proper electro-mechanical operation of the electrostatic precipitator.
B. Verification of Operational Status	Results of initial COMS performance evaluation conducted per PS-1 (July, 1994).	Results of equipment verification tests conducted to calibrate the audible alarm.
C. QA/QC Practices/Criteria	Install and evaluate the COMS per PS-1. The continuous opacity monitor will be automatically calibrated for zero and span adjustments daily.	All instruments and control equipment will be calibrated, maintained, and operated according to the manufactures specifications.
D. Monitoring Frequency	Monitor the opacity of the ESP exhaust continuously (every 10 seconds).	An audible alarm will continuously monitor T-R set failure and rapper control malfunction. Daily: • Inspection of rapper operation. • Inspection of T-R set operation including power usage level. • Inspection of ash removal system operation. Each Major Scheduled Unit Outage Lasting Four or More Weeks: • Check and correct plate electrode alignment. • Inspect for collection surface fouling. • Inspect T-R set mechanical condition. • Inspect internal structural components.
E. Data Collection Procedures	Set up the data acquisition system (DAS) to retain all 6-minute and hourly average opacity data.	Maintain opacity reports, supporting data, all inspection records, and any action resulting from the inspection for 5 years and available upon request.
F. Averaging period	Use the 10-second opacity data to calculate 6-minute averages. Use the 6-minute averages to calculate the hourly block average opacity.	None.

Emission Point ID Number: 004

Associated Equipment

Associated Emission Unit ID Number: 004
Emissions Control Equipment ID Number: CE 004
Emissions Control Equipment Description: Telescopic Chute

Emission Unit vented through this Emission Point: 004
Emission Unit Description: Flyash Truck Loading
Raw Material/Fuel: Flyash
Rated Capacity: 23.5 tons/hr

Applicable Requirements

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

Pollutant: 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"

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 22.108(3)

Emission Point ID Number: 005

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 005a, 005b, and 005c
Emissions Control Equipment ID Number: CE005
Emissions Control Equipment Description: Water Spray

Emission Unit vented through this Emission Point: 005a
Emission Unit Description: Flyash Storage Pile - Grading
Raw Material/Fuel: Flyash
Rated Capacity: 2 vehicle miles/hr

Emission Unit vented through this Emission Point: 005b
Emission Unit Description: Flyash Storage Pile - Flyash and Topsoil Unloading
Raw Material/Fuel: Flyash and Topsoil
Rated Capacity: 51 tons/hr

Emission Unit vented through this Emission Point: 005c
Emission Unit Description: Flyash Storage Pile - Wind Erosion
Raw Material/Fuel: Flyash
Rated Capacity: 7.64 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.

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"

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 22.108(3)

Emission Point ID Number: 006

Associated Equipment

Associated Emission Unit ID Number: 006

Emission Unit vented through this Emission Point: 006
Emission Unit Description: Transfer Tower #3 - Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 1600 tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limits: 20%[(1)]
Authority for Requirement: Iowa DNR Construction Permit 77-A-322-S1
567 IAC 23.1(2)"v"
40 CFR 60.252(c)
[(1)]An exceedance of the indicator opacity of No Visible Emissions (NVE) 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
Emission Limits: 0.1 gr/dscf, 0.4 lb/hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 77-A-322-S1
567 IAC 23.3(2)"a"

Pollutant: PM-10
Emission Limit(s): 0.4 lb/hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 77-A-322-S1

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

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

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 22.108(3)

Emission Point ID Number: 007

Associated Equipment

Associated Emission Unit ID Number: 007a & 007b

Emission Unit vented through this Emission Point: 007a & 007b
Emission Unit Description: Transfer Tower #1 - Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 3000 tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limits: 20%
Authority for Requirement: Iowa DNR Construction Permit 77-A-320-S2
567 IAC 23.1(2)"v"
40 CFR 60.252(c)

Pollutant: Particulate Matter
Emission Limits: 0.1 gr/dscf, 0.80 lb/hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 77-A-320-S2
567 IAC 23.3(2)"a"

Pollutant: PM-10
Emission Limit(s): 0.38 lb/hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 77-A-320-S2

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

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is

not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

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 22.108(3)

Emission Point ID Number: 007c

Associated Equipment

Associated Emission Unit ID Number: 007c
Emissions Control Equipment ID Number: CE007c
Emissions Control Equipment Description: Bag Filter

Emission Unit vented through this Emission Point: 007c
Emission Unit Description: Tower 1 Bin Vent
Raw Material/Fuel: Coal
Rated Capacity: 1600 tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limits: 20%
Authority for Requirement: Iowa DNR Construction Permit 05-A-688
567 IAC 23.1(2)"v"
40 CFR 60.252(c)

Pollutant: Particulate Matter
Emission Limits: 0.1 gr/dscf, 0.77 lb/hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 05-A-688
567 IAC 23.3(2)"a"

Pollutant: PM-10
Emission Limit(s): 0.77 lb/hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 05-A-688

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

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing

emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 20
Stack Opening (inches, dia.): 16
Exhaust Flow Rate (scfm): 4,500
Exhaust Temperature (^{o}F): Ambient
Discharge Style: Horizontal
Authority for Requirement: Iowa DNR Construction Permit 05-A-688

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Opacity Monitoring:

Visible emissions shall be observed on a weekly basis to ensure no visible emissions occur during the material handling operation of the unit. If visible emissions are observed this would be an excursion not a violation, and corrective action will be taken as soon as possible, but no later than 8 hours. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20%) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

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 22.108(3)

Emission Point ID Number: 008

Associated Equipment

Associated Emission Unit ID Number: 008
Emissions Control Equipment ID Number: CE008
Emissions Control Equipment Description: Bag Filter

Emission Unit vented through this Emission Point: 008
Emission Unit Description: Transfer Tower #2 - Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 1600 tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limits: 20%
Authority for Requirement: Iowa DNR Construction Permit 77-A-321-S1
567 IAC 23.1(2)"v"
40 CFR 60.252(c)

Pollutant: Particulate Matter
Emission Limits: 0.1 gr/dscf, 3.43 lb/hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 77-A-321-S1
567 IAC 23.3(2)"a"

Pollutant: PM-10
Emission Limit(s): 3.43 lb/hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 77-A-321-S1

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

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing

emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 43
Stack Opening (inches, dia.): 48 X 30
Exhaust Flow Rate (scfm): 40,000
Exhaust Temperature (^{o}F): Ambient
Discharge Style: Vertical unobstructed
Authority for Requirement: Iowa DNR Construction Permit 77-A-321-S1

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

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

Opacity Monitoring:

Visible emissions shall be observed on a daily basis to ensure no visible emissions occur during the material handling operation of the unit. If visible emissions are observed this would be an excursion not a violation, and corrective action will be taken as soon as possible, but no later than 8 hours. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20%) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

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

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

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

CAM Plan for EP 008 Bag filter

I. Background

A. Emissions Unit
Description: Transfer Tower #2- Coal Conveying
Identification: EU 008
Facility: MidAmerican Energy Company, George Neal South

B. Applicable Regulation, Emission Limit, and Monitoring Requirements
Regulation No.: Iowa DNR Construction Permit 77-A-321-S1
Particulate Matter Emission Limit: 3.43 lb/hr PM, 3.43 lb/hr PM-10
Opacity emission limit: 20%
Current Monitoring requirements: Stack testing, O & M plan and visible emissions
Alternative Monitoring requirements: In lieu of the visible emissions monitoring required below, the permittee may install and operate a bag leak detection system. If this option is chosen, the permittee shall following the monitoring approach listed under section III of this CAM plan.

C. Control Technology
Baghouse

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 baghouse.
- 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. QIP (Quality Improvement Plan) Threshold
Five excursions in a 6-month reporting period

E. Performance Criteria
Data Representativeness: Measurements are being made at the emission point (bag filter exhaust).

Verification of operational status: Records of visible emissions readings, a log of performance, inspections, and any corrective actions will be maintained for five years.

QA/QC practices and criteria: The observer will be familiar with Reference Method 22 and follow Method 22-like procedures.

Monitoring frequency: A 6-minute Method 22-like observation is performed daily, along with weekly and annual performance inspections.

Data collection procedures: The visible emissions observation, a log of performance inspections, and any corrective actions are documented by the observer.

Averaging Period: N/A

III. Alternative Monitoring Approach

A. Indicator to be Monitored: Bag leak detection monitor signal.
B. Rationale for Monitoring Approach: Bag leak detectors that operate on principles such as triboelectricity, 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.
C. Monitoring Locations: At the fabric filter outlet.
D. Analytical Devices Required: Bag leak detector and associated instrumentation.
E. 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.

F. Data Requirements

- Historical signal data showing baseline level and cleaning peak height during normal operation or signal data concurrent with emission testing.

G. Specific QA/QC Procedures: Calibrate, maintain, and operate instrumentation using procedures that take into account manufacture's specifications.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 009

Associated Equipment

Associated Emission Unit ID Number: 009
Emissions Control Equipment ID Number: CE009
Emissions Control Equipment Description: Bag Filter

Emission Unit vented through this Emission Point: 009
Emission Unit Description: Coal Silos and Tripper - Coal Conveying
Raw Material/Fuel: Coal
Rated Capacity: 1600 tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limits: 20%
Authority for Requirement: Iowa DNR Construction Permit 77-A-323-S1
567 IAC 23.1(2)"v"
40 CFR 60.252(c)

Pollutant: Particulate Matter
Emission Limits: 0.1 gr/dscf, 13.5 lb/hr hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 77-A-323-S1
567 IAC 23.3(2)"a"

Pollutant: PM-10
Emission Limit(s): 13.5 lb/hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 77-A-323-S1

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

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing

emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

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

Stack Height (feet, from the ground): 231
Stack Opening (inches, dia.): 28
Exhaust Flow Rate (scfm): 15,750
Exhaust Temperature (^{o}F): Ambient
Discharge Style: Vertical unobstructed
Authority for Requirement: Iowa DNR Construction Permit 77-A-323-S1

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

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

Opacity Monitoring:
Visible emissions shall be observed on a daily basis to ensure no visible emissions occur during the material handling operation of the unit. If visible emissions are observed this would be an excursion not a violation, and corrective action will be taken as soon as possible, but no later than 8 hours. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>20%) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

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

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

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

CAM Plan for EP 009 Bag filter

I. Background

A. Emissions Unit
Description: Coal Silos and Tripper - Coal Conveying
Identification: EU 009
Facility: MidAmerican Energy Company, George Neal South

B. Applicable Regulation, Emission Limit, and Monitoring Requirements
Regulation No.: Iowa DNR Construction Permit 77-A-321-S1
Particulate Matter Emission Limit: 13.5 lb/hr PM, 13.5 lb/hr PM-10
Opacity emission limit: 20%
Current Monitoring requirements: Stack testing, O & M plan and visible emissions
Alternative Monitoring requirements: In lieu of the visible emissions monitoring required below, the permittee may install and operate a bag leak detection system. If this option is chosen, the permittee shall following the monitoring approach listed under section III of this CAM plan.

C. Control Technology
Baghouse

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 baghouse.
- 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. QIP (Quality Improvement Plan) Threshold
Five excursions in a 6-month reporting period

E. Performance Criteria
Data Representativeness: Measurements are being made at the emission point (bag filter exhaust).

Verification of operational status: Records of visible emissions readings, a log of performance, inspections, and any corrective actions will be maintained for five years.

QA/QC practices and criteria: The observer will be familiar with Reference Method 22 and follow Method 22-like procedures.

Monitoring frequency: A 6-minute Method 22-like observation is performed daily, along with weekly and annual performance inspections.

Data collection procedures: The visible emissions observation, a log of performance inspections, and any corrective actions are documented by the observer.

Averaging Period: N/A

III. Alternative Monitoring Approach

H. Indicator to be Monitored: Bag leak detection monitor signal.
I. Rationale for Monitoring Approach: Bag leak detectors that operate on principles such as triboelectricity, 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.
J. Monitoring Locations: At the fabric filter outlet.
K. Analytical Devices Required: Bag leak detector and associated instrumentation.
L. 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.

M. Data Requirements

- Historical signal data showing baseline level and cleaning peak height during normal operation or signal data concurrent with emission testing.

N. Specific QA/QC Procedures: Calibrate, maintain, and operate instrumentation using procedures that take into account manufacture's specifications.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 010

Associated Equipment

Associated Emission Unit ID Number: 010a, 010b and 010c

Emission Unit vented through this Emission Point: 010a, 010b and 010c
Emission Unit Description: Coal Unloading Pit
Raw Material/Fuel: Coal
Rated Capacity: 3000 tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limits: 20%
Authority for Requirement: Iowa DNR Construction Permit 77-A-319-S2
567 IAC 23.1(2)"v"
40 CFR 60.252(c)

Pollutant: Particulate Matter
Emission Limits: 0.1 gr/dscf, 2.39 lb/hr hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 77-A-319-S2
567 IAC 23.3(2)"a"

Pollutant: PM-10
Emission Limit(s): 1.25 lb/hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 77-A-319-S2

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

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is

not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

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 22.108(3)

Emission Point ID Number: 011

Associated Equipment

Associated Emission Unit ID Number: 011
Emissions Control Equipment ID Number: CE011
Emissions Control Equipment Description: Topsoil/Vegetation

Emission Unit vented through this Emission Point: 011
Emission Unit Description: Inactive Flyash Storage Pile - Wind Erosion
Raw Material/Fuel: Flyash
Rated Capacity: 12.84 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.

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"

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 22.108(3)

Emission Point ID Number: 012

Associated Equipment

Associated Emission Unit ID Number: 012

Emission Unit vented through this Emission Point: 012
Emission Unit Description: Diesel Generator (1300 BHP)
Raw Material/Fuel: #2 Fuel Oil (Diesel)
Rated Capacity: 237.5 gallons/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 Limits: 20%
Authority for Requirement: Iowa DNR Construction Permit 96-A-1281-S2
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limits: 0.1 gr/scf
Authority for Requirement: Iowa DNR Construction Permit 96-A-1281-S2
567 IAC 23.3(2)"a"

Pollutant: SO_2
Emission Limits: 2.5 lb/MMBtu
Authority for Requirement: Iowa DNR Construction Permit 96-A-1281-S2
567 IAC 23.3(3)"b"

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

Hours of operation: The Unit 4 emergency generator administered under DNR permit 96-A-1281-S2 shall not be operated while the Unit 4 main boiler is operating, except for periods of testing not to exceed ten (10) hours per month.

Reporting & Record keeping: The permit holder shall maintain records on the premises to show the monthly hours of the testing periods of the Unit 4 emergency generator administered under DNR permit 96-A-1281-S2. Records will be kept for five years and available upon request by representatives of the Department of Natural Resources.
Authority for Requirement: Iowa DNR Construction Permit 96-A-1281-S2

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

Stack Height, (ft, from the ground): 30
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 2,660
Exhaust Temperature (°F): 950
Authority for Requirement: 96-A-1281-S2

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 any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

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

Monitoring is not required at this time. Monitoring will be required if the equipment is operated more than 876 hours per 12 month period, rolled monthly.

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 22.108(3)

Emission Point ID Number: 016

Associated Equipment

Associated Emission Unit ID Number: 016

Emission Unit vented through this Emission Point: 016
Emission Unit Description: Ethylene Glycol Storage
Raw Material/Fuel: Ethylene Glycol
Rated Capacity: 220 gallons/yr (500 gallon capacity)

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.

No applicable requirements

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 22.108(3)

Emission Point ID Number: 017

Associated Equipment

Associated Emission Unit ID Number: 017

Emission Unit vented through this Emission Point: 017
Emission Unit Description: Transfer Tower #2 Glycol Storage Tank
Raw Material/Fuel: Ethylene Glycol
Rated Capacity: 220 gallons/yr (500 gallon capacity)

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.

No applicable requirements

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 22.108(3)

Emission Point ID Number: 018

Associated Equipment

Associated Emission Unit ID Number: 018

Emission Unit vented through this Emission Point: 018
Emission Unit Description: Transfer Tower #1 Glycol Storage Tank
Raw Material/Fuel: Ethylene Glycol
Rated Capacity: 220 gallons/yr (500 gallon capacity)

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.

No applicable requirements

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 22.108(3)

Emission Point ID Number: 022

Associated Equipment

Associated Emission Unit ID Number: 022
Emissions Control Equipment ID Number: CE022
Emissions Control Equipment Description: Bag Filter

Emission Unit vented through this Emission Point: 022
Emission Unit Description: Flyash Storage Silo B
Raw Material/Fuel: Flyash
Rated Capacity: 46,933 lb/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limits: 40%
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limits: 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 78-A-148
567 IAC 23.3(2)"a"

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 22.108(3)

Emission Point ID Number: 023

Associated Equipment

Associated Emission Unit ID Number: 023
Emissions Control Equipment ID Number: CE023
Emissions Control Equipment Description: Bag Filter

Emission Unit vented through this Emission Point: 023
Emission Unit Description: Flyash Storage Silo A
Raw Material/Fuel: Flyash
Rated Capacity: 46,933 lb/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limits: 40%
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limits: 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 78-A-147
567 IAC 23.3(2)"a"

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 22.108(3)

Emission Point ID Number: 041

Associated Equipment

Associated Emission Unit ID Number: 041

Emission Unit vented through this Emission Point: 041
Emission Unit Description: Diesel Engine for Emergency Fire Pump (266 BHP)
Raw Material/Fuel: #2 Fuel Oil
Rated Capacity: 20 gallons/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 Limits: 40%
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: SO_2
Emission Limits: 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"

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

Monitoring is not required at this time. Monitoring will be required if the equipment is operated more than 876 hours per 12 month period, rolled monthly.

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 22.108(3)

Emission Point ID Number: 045

Associated Equipment

Associated Emission Unit ID Number: 045

Emission Unit vented through this Emission Point: 045
Emission Unit Description: Coal Unloading (Fugitive)
Raw Material/Fuel: Coal
Rated Capacity: 3000 tons/hr

Applicable Requirements

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

Pollutant: 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"

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 22.108(3)

Emission Point ID Number: 046

Associated Equipment

Associated Emission Unit ID Numbers: 046a, 046b, 046c, 046d and 046e

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Emission Unit vented through this Emission Point: 046a, 046b, 046c, 046d and 046e
Emission Unit Description: Stacker/Reclaimer
Raw Material/Fuel: Coal
Rated Capacity: 3000 tons/hr

Applicable Requirements

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

Pollutant: Opacity
Emission Limits: 20%
Authority for Requirement: Iowa DNR Construction Permit 05-A-689
567 IAC 23.1(2)"v"
40 CFR 60.252(c)

Pollutant: Particulate Matter
Emission Limits: 0.1 gr/dscf, 4.77 lb/hr hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 05-A-689
567 IAC 23.3(2)"a"

Pollutant: PM-10
Emission Limit(s): 2.25 lb/hr expressed as the average of 3 runs
Authority for Requirement: Iowa DNR Construction Permit 05-A-689

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

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is

not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

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 22.108(3)

Emission Point ID Number: 051

Associated Equipment

Associated Emission Unit ID Number: 051

Emission Unit vented through this Emission Point: 051
Emission Unit Description: Water Lab Fume Hood
Raw Material/Fuel: Nitric and Hydrochloric acid
Rated Capacity: 0.04 gallons/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.

No applicable requirements

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

Process throughput: The total quantity of acetylene shall not exceed 450 cubic feet (17,460 lbs) per twelve-month rolling total.
Authority for Requirement: Iowa DNR Construction Permit 01-A-1149

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 22.108(3)

General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

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 22.108(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 22.105 (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 22.108 (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 22.108 (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 22.108 (9)"b"*

G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(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 present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. 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 22.105(2). *567 IAC 22.105*

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 22.107 (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 22.108 (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 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 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 following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
    a. Form 1.0 "Facility Identification";
    b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
    c. Form 5.0 "Title V annual emissions summary/fee"; and
    d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
    a. Form 1.0 "Facility Identification";
    b. Form 5.0 "Title V annual emissions summary/fee";
    c. Part 3 "Application certification."
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 22.115(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 22.108 (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 22.108 (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 24.2(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 22.108(4), 567 IAC 22.108(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 22;

b. Compliance test methods specified in 567 Chapter 25; 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 22.108(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) 281-8694 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. 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. Oral 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 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(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 oral report may be made 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 oral 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 24.1(1)-567 IAC 24.1(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The facility at the time was being properly operated;

c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and

d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under

section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
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.
e. The changes comply with all applicable requirements.
f. For such a 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 22.110(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 22.110(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 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(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 22.110(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 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.
a. An administrative permit amendment is a permit revision that is required to do 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 Permit Modification.

a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:

i. Do not violate any applicable requirements

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 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.

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 22.107(4), that the proposed modification meets the criteria for use of a 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 22.107(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 22.112(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, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant 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 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* 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 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *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, training fires and controlled burning of a demolished building. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. *567 IAC 23.2 <u>except</u> 23.2(3)"h"; 567 IAC 23.2(3)"h" - 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 22.108(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 substance 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 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as

practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to June 25, 1993.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(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 June 25, 1993, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

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 22.108 (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 22.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (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 to determine transferability of the permit. *567 IAC 22.111 (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 an applicable requirement. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. 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. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. 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 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
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-6001

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 25.1(7)"a", 567 IAC 25.1(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:

Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
901 N. 5th Street
Kansas City, KS 66101
(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
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-5100

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
909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2
2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 3
1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 4
1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 5
401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

Field Office 6
1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

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

Linn County Public Health Dept.
Air Pollution Control Division
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

V. Appendices: Acid Rain Permit