

**Iowa Department of Natural Resources
Title V Operating Permit**

Name of Permitted Facility: Willow Creek / Ginger East Data Centers

Facility Location:

**550 SE White Crane Road & 1475 SE Maffitt Lake Road
West Des Moines, IA 50265**

Air Quality Operating Permit Number: 24-TV-005

Expiration Date: December 8, 2029

Permit Renewal Application Deadline: June 8, 2029

EIQ Number: 92-7016

Facility File Number: 77-02-040

Responsible Official

Name: Mr. Rich Massie

Title: Data Center Campus Director

Mailing Address:

Microsoft Corporation

550 SE White Crane Road

West Des Moines, Iowa 50265

Phone #: 360-633-5051

Permit Contact Person for the Facility

Name: Teleri Smith

Title: Staff Environmental Scientist

Mailing Address:

Burns & McDonnell Engineering Company, Inc.

777 Main Street, Suite 2500

Fort Worth, TX 76102

Phone #: 682-382-0472

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

For the Director of the Department of Natural Resources



12/09/2024

Marnie Stein, Supervisor of Air Operating Permits Section

Date

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Abbreviations

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

Pollutants

PM.....	Particulate Matter
PM ₁₀	Particulate Matter ten microns or less in diameter
PM _{2.5}	Particulate Matter 2.5 microns or less in diameter
SO ₂	Sulfur dioxide
NO _x	Nitrogen Oxides
VOC(s).....	Volatile Organic Compound(s)
CO.....	Carbon Monoxide
HAP(s).....	Hazardous Air Pollutant(s)

I. Facility Description and Equipment List

Facility Name: Willow Creek / Ginger East Data Centers

Permit Number: 24-TV-005

Facility Description: Data processing and preparation (SIC 7374) and Data Processing, Hosting, and Related Services (NAICS 518210)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
1	1	Cummins Diesel IC engine, model QSK23-G7 NR2 DQCC with closed crankcase ventilation	2714 Modified#3
2	2	Cummins Diesel IC engine, model QSK60-G6 NR2 DQKAB with closed crankcase ventilation	2715 Modified#2
3	3	Cummins Diesel IC engine, model QSK60-G6 NR2 DQKAB with closed crankcase ventilation	2716 Modified#2
4	4	Cummins Diesel IC engine, model QSK60-G6 NR2 DQKAB with closed crankcase ventilation	2717 Modified#2
5	5	Cummins Diesel IC engine, model QSK60-G6 NR2 DQKAB with closed crankcase ventilation	2718 Modified#2
6	6	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2719 Modified#2
7	7	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2720 Modified#2
8	8	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2721 Modified#2
9	9	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2722 Modified#2
10	10	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2723 Modified#2
11	11	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2724 Modified#2
12	12	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2725 Modified#2
13	13	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2726 Modified#2
14	14	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2727 Modified#2
15	15	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2728 Modified#2
16	16	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2729 Modified#2

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
17	17	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2730 Modified#2
18	18	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2731 Modified#2
19	19	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2732 Modified#2
20	20	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2733 Modified#2
21	21	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2734 Modified#2
22	22	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2778 Modified#2
23	23	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2779 Modified#2
24	24	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2780 Modified#2
25	25	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2781 Modified#2
26	26	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2782 Modified#2
27	27	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2783 Modified#2
28	28	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2784 Modified#2
29	29	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2785 Modified#2
30	30	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2786 Modified#2
31	31	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2787 Modified#2
32	32	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2788 Modified#2
33	33	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2789 Modified#2
34	34	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2790 Modified#2
35	35	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2791 Modified#2
36	36	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2792 Modified#2
37	37	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2793 Modified#2
38	38	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2957 Modified#2
39	39	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2958 Modified#2

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
40	40	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2959 Modified#2
41	41	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2960 Modified#2
42	42	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2973 Modified#2
43	43	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2974 Modified#2
44	44	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2975 Modified#2
45	45	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2976 Modified#2
46	46	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3010 Modified#2
47	47	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3011 Modified#2
48	48	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3012 Modified#2
49	49	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3013 Modified#2
50	50	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3014 Modified#2
51	51	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3015 Modified#2
52	52	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3016 Modified#2
53	53	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3017 Modified#2
54	54	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3018 Modified#2
55	55	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3019 Modified#2
56	56	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3020 Modified#2
57	57	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3021 Modified#2
58	58	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3022 Modified#2
59	59	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3023 Modified#2
60	60	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3024 Modified#2
61	61	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3025 Modified#2

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
62	62	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3026 Modified#2
63	63	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3027 Modified#2
64	64	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3028 Modified#2
65	65	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	3029 Modified#2
66	66	Cummins Diesel IC engine, model QST30-G5 NR2 DQFAD with closed crankcase ventilation	3310 Modified#2
67	67	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3311 Modified#2
68	68	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3312 Modified#2
69	69	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3313 Modified#2
70	70	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3314 Modified#2
71	71	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3315 Modified#2
72	72	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3316 Modified#2
73	73	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3317 Modified#2
74	74	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3318 Modified#2
75	75	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3319 Modified#2
76	76	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3320 Modified#2
77	77	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3321 Modified#2
78	78	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3322 Modified#2
79	79	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3323 Modified#2
80	80	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3324 Modified#2
81	81	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3325 Modified#2
82	82	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3326 Modified#2
83	83	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3327 Modified#2

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
84	84	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3328 Modified#2
85	85	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3329 Modified#2
86	86	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3330 Modified#2
101	101	Cummins Diesel IC engine, model QSX15-G9 NR2 DFEK with closed crankcase ventilation	3654 Modified
102	102	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3655 Modified
103	103	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3656 Modified
104	104	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3657 Modified
105	105	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3658 Modified
106	106	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3659 Modified
107	107	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3660 Modified
108	108	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3661 Modified
109	109	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3662 Modified
110	110	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3663 Modified
111	111	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3664 Modified
112	112	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3665 Modified
113	113	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3666 Modified
114	114	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3667 Modified
115	115	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3668 Modified
116	116	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3669 Modified
117	117	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3670 Modified
118	118	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3671 Modified
119	119	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3672 Modified

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
120	120	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3673 Modified
121	121	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3674 Modified
122	122	Cummins Diesel IC engine, model QSX15-G9 NR2 DFEK with closed crankcase ventilation	3870
123	123	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3847
124	124	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3848
125	125	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3849
126	126	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3850
127	127	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3851
128	128	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3852
129	129	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3853
130	130	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3854
131	131	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3855
132	132	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3856
133	133	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3857
134	134	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3858
135	135	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3859
136	136	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3860
137	137	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3861
138	138	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3862
139	139	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3863
140	140	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3864
141	141	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3865
142	142	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3866

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
I1	3,036 Gallon Fixed Roof Diesel Storage Tank (1)
I2 – I5	8,300 Gallon Fixed Roof Diesel Storage Tanks (4)
I6 – I21	9,600 Gallon Fixed Roof Diesel Storage Tanks (16)
I22 – I65	8,000 Gallon Fixed Roof Diesel Storage Tanks (44)
I66	4,200 Gallon Fixed Roof Diesel Storage Tank (1)
I67 – I86	8,000 Gallon Fixed Roof Diesel Storage Tanks (20)
I101 and I122	2,100 Gallon Fixed Roof Diesel Storage Tanks (2)
I102 – I121	8,000 Gallon Fixed Roof Diesel Storage Tanks (20)
I123 – I142	8,000 Gallon Fixed Roof Diesel Storage Tanks (20)

II. Plant-Wide Conditions

Facility Name: Willow Creek / Ginger East Data Centers
Permit Number: 24-TV-005

Permit conditions are established in accord with 567 Iowa Administrative Code rule 24.108. When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 22. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024 and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix 2.

Permit Duration

The term of this permit is: 5 years
Commencing on: 12/9/2024
Ending on: 12/8/2029

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

Emission Limits

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

Opacity (visible emissions) (for each generator): <20% opacity
Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9

Visible Emissions (VE) shall be observed during operating periods greater than or equal to one hour, to ensure none occur during steady state conditions of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than the next scheduled operating period greater than or equal to one hour. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity greater than or equal to 20% is observed, this would count as an excess emission event and corrective action will be taken as soon as possible, but no later than the next scheduled operating period greater than or equal to one hour. If weather conditions prevent the observer from conducting a VE observation, the observer shall note such conditions on the data observation sheet. A VE observation shall be made during the next operating period greater than or equal to one hour, where weather permits.

Authority for Requirement: 567 IAC 24.108(3)

Sulfur Dioxide (SO₂): 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"

Polk County Board of Health Rules and Regulations: Chapter V,
Article IX, Section 5-27

Particulate Matter: If the Polk County Health Officer determines that a process complying with the emission rates specified in Table 1 of Section 5-15 of Polk County Board of Health Rules and Regulations Chapter V is causing or will cause air pollution, the Polk County Health Officer will notify the source of such determination. Upon notification, the source shall not emit particulates in amounts greater than 0.10 grain per standard cubic foot of exhaust gas.

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

Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed on or after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from the equation provided in 23.3(2)"a"(2) or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

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

Combustion for indirect heating: Inside any metropolitan statistical area, the maximum allowable emission from each stack, irrespective of stack height, shall be 0.6 pounds of particulates per million Btu input.

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

Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-15(b)

Fugitive Dust: It shall be unlawful for any person handling, loading, unloading, reloading, storing, transferring, transporting, placing, depositing, throwing, discarding, or scattering any ashes, fly ash, cinders, slag or dust collected from any combination process, any dust, dirt, chaff, wastepaper, trash, rubbish, waste or refuse matter of any kind, or any other substance or material whatever, which is likely to be scattered by the wind, or is susceptible to being wind-borne, to do so without taking reasonable precautions or measures to prevent particulate matter from becoming airborne so as to minimize atmospheric pollution.

Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V,
Article IX, Section 5-24

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

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

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

Combined Emission Limits

EPs	Pollutant	tons/yr ¹	Other Limits	Reference/Basis
See footnote 2	Nitrogen Oxides (NO _x)	224.22 ²	NA	Synthetic Minor for PSD

¹ The emission limit is based on a 12-month rolling total.

² The emission limit is based on the facility-wide fuel usage limits in Table 1 for all stationary IC engines at the Willow Creek / Ginger East Data Centers (facility ID 77-02-040). Limit established to make the combined facilities a synthetic minor source for PSD.

- A. To maintain the facility’s status of a synthetic minor source for the PSD program, the owner or operator shall not exceed the fuel usage limitations listed in Table 1 below. The limit is a 12-month rolling total, rolled monthly per group of identical units.

Table 1 - Total Annual Gallon Limits for each Series of Generators

Emission Unit IDs	Permit Number, Authority For Requirement	Annual operating limit in Gallons of fuel: 12-month rolling period, rolled monthly, per group of identical units
EU-1	2714 Modified#3	5,290
EU-66	3310 Modified#2	7,220
EU-2 to EU-5	2715 Modified#2 – 2718 Modified#2	37,869
EU-67 to EU-86	3311 Modified#2 – 3330 Modified#2	278,720
EU-6 to EU-65	2719 Modified#2 – 2734 Modified#2, 2778 Modified#2 – 2793 Modified#2, 2957 Modified#2 – 2960 Modified#2, 2973 Modified#2 – 2976 Modified#2, 3010 Modified#2 – 3029 Modified#2	664,104
EU-101 and EU-122	3654 Modified and 3870	6,940
EU-102 to EU-121	3655 Modified-3674 Modified	278,720
EU-123 to EU-142	3847-3866	274,700

1. Federal Standards

- A. New Source Performance Standards (NSPS):

Table 2 – Applicable NSPS Standards

Subpart	Title	Type	Polk County Reference (Chapter V)	State Reference (567 IAC)	Federal Reference (40 CFR)
A	General Provisions	NA	Article VI, Section 5-16(n)	23.1(2)	§60.1 – §60.19
III	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	Emergency Engine	Article VI, Section 5-16(n)(77)	23.1(2)“yyy”	§60.4200 – §60.4219

- (1) In accordance with 40 CFR §60.4211(c), the engine must be certified by its manufacturer to comply with the emissions standards for emergency engines from 40 CFR §60.4205(b) and 40 CFR §60.4202(a)(2) or 40 CFR §60.4202(b)(2). The emission standards that the engine must be certified by the manufacturer to meet are:

Table 3 - NSPS Certification Standards

Pollutant	Emission Standard	Basis/Reference
Particulate Matter (PM)	0.20 grams/kW-hr	40 CFR Part 1039, Appendix I
NMHC + NO _x	6.4 grams/kW-hr	40 CFR Part 1039, Appendix I ¹
Carbon Monoxide (CO)	3.5 grams/kW-hr	40 CFR Part 1039, Appendix I ¹

¹ Table 2 of Appendix I is for Tier 2 Emission Standards and Table 3 of Appendix I is for Tier 3 Emissions Standards.

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

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

Authority for Requirement: 40 CFR Part 60 Subpart III

567 IAC 23.1(2)"yyy"

Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-16 (n)(77)

Polk County Construction Permit Number 2714 Modified #3,
PR-000650-2023; PR-000651-2023; 3310 Modified#2; PR-000652-2023;
PR-000656-2023; PR-000653-2023; and PR-000655-2023

B. National Emission Standards for Hazardous Air Pollutants (NESHAP):

Table 4 – Applicable NESHAP Standards

Subpart	Title	Type	Polk County Reference (Chapter V)	State Reference (567 IAC)	Federal Reference (40 CFR)
A	General Provisions	NA	Article VIII, Section 5-20(a)	23.1(4)	§63.1 – §63.15
ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	New Emergency Engine	Article VIII, Section 5-20(zzzz)	23.1(4)“cz”	§63.6580 – §63.6675

(1) This engine is a new reciprocating internal combustion engine located at an area source of HAP. In accordance with 40 CFR §63.6590(c)(1), the engine must comply with the requirements of Subpart ZZZZ by meeting the requirements of NSPS subpart III. No further requirements apply to this engine under Subpart ZZZZ.

2. Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by any federal regulation, all records as required by this permit shall be available on-site for a minimum of five (5) years and shall be available for inspection by the Local Program. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. Each engine is limited to burning the following fuels:
 - (1) Petroleum diesel fuel oil that meets the specifications of Condition 2.B.;
 - (2) REG 9000/RHD fuel and other Hydrogenated Vegetable Oil (HVO) fuels, provided they meet the specifications of Conditions 2.B. and 2.C.; and
 - (3) Blends of petroleum diesel fuel and REG 9000/RHD and other HVO fuels that meet the specifications of Conditions 2.B. and 2.C.

In this permit, “*diesel fuel oil*” or “*diesel fuel*” shall mean petroleum diesel fuel oil and HVO fuel that meets Condition 5.C. REG-9000/RHD is a type of HVO fuel. The engines’ manufacturer, Cummins, has approved HVO fuels as a fuel that can be used in the QSK23, QSK60, QST30, QSK95, and X15 series generator sets and has extended warranty coverage to the engines provided the HVO fuel meets the fuel specifications applicable to HVO fuels listed in its “*Required Diesel Fuels Specifications.*” REG-9000/RHD is an HVO fuel that meets Cummins’ fuel specifications in its “*Required Diesel Fuels Specifications.*” REG-9000/RHD also meets the specifications of ASTM D975, “*Standard Specification for Diesel Fuel Oils*”, and therefore meets the definition of “*diesel fuel*” from Polk County Board of Health Rules and Regulations, Chapter V, Article I, Section 5-2.

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

Table 5 - Diesel Fuel Specifications

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

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

- C. The HVO fuels must also meet the following specifications:
 - (1) ASTM D975, “*Standard Specification for Diesel Fuel Oils,*” or other specifications that enable the fuel to satisfy the definition of “diesel fuel” from Polk County Board of Health Rules and Regulations, Chapter V, Article I, Section 5-2.
 - (2) EN 15940, “*Automotive fuels – Paraffinic diesel fuel from synthesis or hydrotreatment – Requirements and test methods,*” or other specifications that enable the fuel to meet the paraffinic fuel requirements in the engine manufacturer’s “*Required Diesel Fuels Specifications.*”

- D. The owner or operator of each engine shall comply with the requirements of Condition 2.C. by one of the following methods:
 - (1) Have the fuel supplier certify that the fuel delivered meets all the specifications of Condition 2.C;
 - (2) Obtain a fuel analysis from the supplier that shows that all specifications of Condition 2.C. are met for the fuel delivered;
 - (3) Perform an analysis of the fuel to verify that all specifications of Condition 2.C. are met for the fuel delivered.

- E. Prior to using any HVO fuel that is not REG-9000/RHD in the engines, the owner or operator shall submit a written determination request to Polk County Air Quality Division (PCAQD) to use the proposed HVO fuel and shall receive written approval by PCAQD. Information submitted to PCAQD shall include the following:
 - (1) The supplier and name of the HVO fuel;
 - (2) A copy of the fuel analysis done on the fuel;
 - (3) A statement that the fuel meets the definition of “*diesel fuel*” from Polk County Board of Health Rules and Regulations Chapter V, Article I, Section 5-2;
 - (4) A statement that the fuel meets the fuel specifications in EN 15940 or meets other specifications that enable the fuel to meet the paraffinic fuel requirements in the engine manufacturer’s “*Required Diesel Fuels Specifications;*”
 - (5) An evaluation of the impact of air emissions due to the use of the fuel; and
 - (6) Any other information that is relevant to the approval request, including stack data or emissions data from the fuel supplier or engine manufacturer.

If PCAQD approves the use of the proposed HVO fuel in the engines, PCAQD may require additional modifications to the construction permits or additional demonstrations of compliance, including stack testing, with any applicable regulation, permit limitation, or permit condition.

- F. To maintain compliance with the 24-hour PM_{2.5} NAAQS, the owner or operator shall comply with the following operating limits:
- (1) On a “*standard activity day*”, the facility may operate any combination of generator engines for up to a combined total of 18 engine-hours.
 - (2) Any day that exceeds the operating limits in 2.F.(1) shall be considered a “*PM_{2.5} high activity day*”.
 - (3) The facility shall be limited to seven (7) “*PM_{2.5} high activity days*” in a calendar year.
- G. To maintain compliance with the 24-hour PM₁₀ NAAQS, the owner or operator shall comply with the following operating limits for the seven (7) “*PM_{2.5} high activity days*” per calendar year:
- (1) On a “*PM_{2.5} high activity day*”, the facility may operate any combination of generator engines for any amount of time, provided that the following daily fuel usage limits are not exceeded:
 - a. Generator Engines EU-1 through EU-86 are limited to burning a maximum of 265,723 gallons of diesel fuel; and
 - b. Generator Engines EU-101 through EU-142 are limited to burning a maximum of 176,178 gallons of diesel fuel.
 - (2) Any “*PM_{2.5} high activity day*” during which fuel usage exceeds a daily limitation of 2.G.(1).a or 2.G.(1).b shall be considered a “*PM₁₀ high activity day*”.
 - (3) The facility shall be limited to three (3) “*PM₁₀ high activity days*” per rolling three (3)-year period.
- H. In accordance with U.S. EPA modeling guidance, each engine qualifies as an intermittent source and is not required to demonstrate predicted attainment with the 1-hour NO₂ ambient air quality standard. Per this guidance, scheduled operation of an engine for maintenance and readiness testing should be done during favorable dispersion conditions. Favorable dispersion conditions are generally considered daytime hours between 9 AM and 4 PM. The owner or operator should develop and implement written procedures to ensure operation of each engine for maintenance and readiness testing is done during favorable dispersion conditions to the extent practicable. A copy of these procedures shall be made available to the PCAQD upon request.
- I. Each engine is limited to operate as an emergency stationary internal combustion engine as defined in §60.4219 and in accordance with §60.4211. There is no limit on the use of the engine in emergency situations provided that the annual fuel usage limits set in Table 1 above are not exceeded.
- (1) In accordance with §60.4211, the engine is limited to a maximum of 100 hours per calendar year for maintenance checks and readiness testing.
 - (2) The engine is allowed to operate up to 50 hours per calendar year in non-emergency situations, but the 50 hours are counted toward the 100 hours provided for maintenance and testing. The 50 hours per calendar year for non-emergency operation cannot be used to generate income for the facility to supply power to the electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. This engine is not allowed to operate as a peak shaving unit.
- J. In accordance with 40 CFR §60.4209(a), each engine shall be equipped with a non-resettable hour meter.

- K. In accordance with §60.4211(a), these engines and applicable control devices (i.e. Diesel Particulate Filter, Selective Catalytic Reduction) shall be operated and maintained in accordance with the manufacturer’s emission-related written instructions. The owner or operator may only change emission-related engine settings that are permitted by the manufacturer. If the engines are not operated and maintained according to manufacturer’s emission-related written instructions or if the emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator shall comply with the requirements of 60.4211(g)(3), including the requirement to conduct performance tests to demonstrate compliance with applicable emission standards.
- L. The owner or operator shall record the date, time and run time used each time the units are operated. The log shall indicate the purpose of operation, i.e., maintenance check, readiness testing or emergency use per §60.4214.
- M. The owner or operator shall maintain the following daily records for each emission unit:
- (1) The total amount of petroleum diesel fuel burned for all engines at the facility (gallons).
 - (2) The total amount of HVO fuel burned for all engines at the facility (gallons).
 - (3) The number of engine-hours that the engine operated.
 - (4) The total number of engine-hours that all engines at the facility operated.
 - (5) If an engine was operated, the start-up and shutdown time of day that the engine operated.
 - (6) Whether the day is a “*PM_{2.5} high activity day*”, “*PM₁₀ high activity day*” or a “*standard activity day*” in accordance with conditions 2.F and 2.G above.
- N. The owner or operator shall maintain the following monthly records for each emission unit:
- (1) The total amount of petroleum diesel fuel burned in each engine at the facility (gallons).
 - (2) The total amount of HVO fuel burned in each engine at the facility (gallons).
 - (3) The number of hours that the engine is operated for maintenance checks and readiness testing.
 - (4) The number of hours that the engine is operated for allowed non-emergency operations.
 - (5) The total number of hours that the engine is operated.
 - (6) Each of the above records shall include the rolling 12-month total of hours for each category of operation (i.e., total hours of operation, total amount of fuel burned in gallons).
- O. The owner or operator shall maintain the following annual records for each emission unit on a calendar year basis:
- (1) The number of hours that the engine operated for maintenance checks and readiness testing.
 - (2) The number of hours that the engine operated for allowed non-emergency operations.
 - (3) The total number of “*PM_{2.5} high activity days*” or “*PM₁₀ high activity days*” that the facility had.
 - (4) The total amount of petroleum diesel fuel burned in all engines at the facility (gallons).
 - (5) The total amount of HVO fuel burned in all engines at the facility (gallons).
- P. The owner or operator shall maintain the following records:
- (1) A copy of the Certificate of Conformity issued by the US EPA to the engine manufacturer for each stationary diesel engine.
 - (2) A record of all inspections and maintenance performed on each diesel engine.
 - (3) A record of any Determination Request that was sent to this agency, seeking review and approval for the use of an HVO fuel that has not been approved. The record shall include a copy of PCAQD’s written approval letter.

Records required by Condition 2.P.(1) and 2.P.(3) shall be maintained on-site for the life of the equipment.

- Q. The owner or operator shall submit an annual report to PCAQD for any exceedance of the annual limits for “*PM_{2.5} high activity days*” or “*PM₁₀ high activity days*” or for any exceedance of the 12-month fuel usage limitations. This report shall be submitted no later than January 31 of each calendar year. The report shall identify the number of exceedances, the extent of the exceedance and the corrective action taken. If no exceedance of these limits occurs, the owner or operator is not required to submit a report.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
Polk County Board of Health Rules and Regulations Chapter V,
Article VIII, Section 5-20 (zzzz)
Polk County Construction Permit Number 2714 Modified #3,
PR-000650-2023; PR-000651-2023; 3310 Modified#2; PR-000652-2023;
PR-000656-2023; PR-000653-2023; and PR-000655-2023

III. Emission Point-Specific Conditions

Facility Name: Willow Creek / Ginger East Data Centers
Permit Number: **24-TV-005**

Emission Point ID Number: 1

Emission Unit vented through this Emission Point: 1
Emission Unit Description: Cummins Diesel IC engine, model QSK23-G7 NR2 DQCC with closed crankcase ventilation
Raw Material/Fuel: Diesel Fuel
Rated Capacity: 800 kW; 52.9 gal/hr

Applicable Requirements

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

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

Pollutant	lb/hr	tons/yr	Other Limits	Reference/Basis
Particulate Matter (PM)	0.38	NA	0.10 gr/dscf	PCBHRR Chapter V Article VI, Section 5-14(b)
PM ₁₀	0.38	NA	NA	NAAQS
PM _{2.5}	0.38	NA	NA	NAAQS
Opacity	NA	NA	20%, and See Plant-Wide Conditions	PCBHRR Chapter V, Article IV, Section 5-9
Sulfur Dioxide (SO ₂)	NA	NA	0.5 lb/MMBtu, and See Plant-Wide Conditions	PCBHRR Chapter V Article IX, Section 5-27 & Article VI, Section 5-16(n)(77)
Nitrogen Oxides (NO _x)	18.96	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS
Carbon Monoxide (CO)	2.81	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS

Authority for Requirement: Polk County AQD Construction Permit 2714 Modified #3

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be available on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

(See Plant-Wide Conditions for requirements.)

Authority for Requirement: 40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-16 (n)(77)
40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
Polk County Board of Health Rules and Regulations Chapter V,
Article VIII, Section 5-20 (zzzz)
Polk County Construction Permit Number 2714 Modified #3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 34.7
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): 2,112
Exhaust Temperature (°F): 905
Discharge Style: Vertical, unobstructed
Authority for Requirement: Polk County AQD Construction Permit 2714 Modified #3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Numbers: EP-2 – EP 5

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description	Permit #
2	2	Cummins Diesel IC engine, model QSK60-G6 NR2 DQKAB with closed crankcase ventilation	2000 kW 141.3 gal/hr	NA	2715 Modified#2
3	3	Cummins Diesel IC engine, model QSK60-G6 NR2 DQKAB with closed crankcase ventilation	2000 kW 141.3 gal/hr	NA	2716 Modified#2
4	4	Cummins Diesel IC engine, model QSK60-G6 NR2 DQKAB with closed crankcase ventilation	2000 kW 141.3 gal/hr	NA	2717 Modified#2
5	5	Cummins Diesel IC engine, model QSK60-G6 NR2 DQKAB with closed crankcase ventilation	2000 kW 141.3 gal/hr	NA	2718 Modified#2

Applicable Requirements

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

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

Pollutant	lb/hr	tons/yr	Other Limits	Reference/Basis
Particulate Matter (PM)	0.82	NA	0.10 gr/dscf	PCBHRR Chapter V Article VI, Section 5-14(b)
PM ₁₀	0.82	NA	NA	NAAQS
PM _{2.5}	0.82	NA	NA	NAAQS
Opacity	NA	NA	20%, and See Plant-Wide Conditions	PCBHRR Chapter V, Article IV, Section 5-9
Sulfur Dioxide (SO ₂)	NA	NA	0.5 lb/MMBtu, and See Plant-Wide Conditions	PCBHRR Chapter V Article IX, Section 5-27 & Article VI, Section 5-16(n)(77)
Nitrogen Oxides (NO _x)	42.63	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS
Carbon Monoxide (CO)	4.22	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS

Authority for Requirement: Polk County Construction Group of Permits Number PR-000650-2023

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be available on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

(See Plant-Wide Conditions for requirements.)

Authority for Requirement: 40 CFR Part 60 Subpart IIII
 567 IAC 23.1(2)"yyy"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VI, Section 5-16 (n)(77)
 40 CFR Part 63 Subpart ZZZZ
 567 IAC 23.1(4)"cz"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VIII, Section 5-20 (zzzz)
 Polk County Construction Group of Permits Number PR-000650-2023

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

EP ID	Stack Height (feet)	Discharge Style	Stack Opening (inches)	Stack Temperature (°F)	Exhaust Flowrate (scfm)
2	34.4 feet	Vertical, unobstructed	18 inches	893°F	5,822 scfm
3	34.4 feet	Vertical, unobstructed	18 inches	893°F	5,822 scfm
4	34.4 feet	Vertical, unobstructed	18 inches	893°F	5,822 scfm
5	34.4 feet	Vertical, unobstructed	18 inches	893°F	5,822 scfm

Authority for Requirement: PR-000650-2023

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Numbers: EP-6 – EP-65

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description	Permit #
6	6	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2719 Modified#2
7	7	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2720 Modified#2
8	8	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2721 Modified#2
9	9	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2722 Modified#2
10	10	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2723 Modified#2
11	11	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2724 Modified#2
12	12	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2725 Modified#2
13	13	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2726 Modified#2
14	14	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2727 Modified#2
15	15	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2728 Modified#2

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description	Permit #
16	16	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2729 Modified#2
17	17	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2730 Modified#2
18	18	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2731 Modified#2
19	19	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2732 Modified#2
20	20	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2733 Modified#2
21	21	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2734 Modified#2
22	22	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2778 Modified#2
23	23	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2779 Modified#2
24	24	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2780 Modified#2
25	25	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2781 Modified#2
26	26	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2782 Modified#2

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description	Permit #
27	27	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2783 Modified#2
28	28	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2784 Modified#2
29	29	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2785 Modified#2
30	30	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2786 Modified#2
31	31	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2787 Modified#2
32	32	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2788 Modified#2
33	33	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2789 Modified#2
34	34	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2790 Modified#2
35	35	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2791 Modified#2
36	36	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2792 Modified#2
37	37	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2793 Modified#2

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description	Permit #
38	38	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2957 Modified#2
39	39	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2958 Modified#2
40	40	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2959 Modified#2
41	41	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2960 Modified#2
42	42	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2973 Modified#2
43	43	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2974 Modified#2
44	44	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2975 Modified#2
45	45	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	2976 Modified#2
46	46	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3010 Modified#2
47	47	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3011 Modified#2
48	48	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3012 Modified#2

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description	Permit #
49	49	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3013 Modified#2
50	50	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3014 Modified#2
51	51	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3015 Modified#2
52	52	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3016 Modified#2
53	53	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3017 Modified#2
54	54	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3018 Modified#2
55	55	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3019 Modified#2
56	56	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3020 Modified#2
57	57	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3021 Modified#2
58	58	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3022 Modified#2
59	59	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3023 Modified#2

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description	Permit #
60	60	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3024 Modified#2
61	61	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3025 Modified#2
62	62	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3026 Modified#2
63	63	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3027 Modified#2
64	64	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3028 Modified#2
65	65	Cummins Diesel IC engine, model QSK60-G19 NR2 DQKAN with closed crankcase ventilation	2500 kW 165.2 gal/hr	NA	3029 Modified#2

Applicable Requirements

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

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

Pollutant	lb/hr	tons/yr	Other Limits	Reference/Basis
Particulate Matter (PM)	1.28	NA	0.10 gr/dscf	PCBHRR Chapter V Article VI, Section 5-14(b)
PM ₁₀	1.28	NA	NA	NAAQS
PM _{2.5}	1.28	NA	NA	NAAQS
Opacity	NA	NA	20%, and See Plant-Wide Conditions	PCBHRR Chapter V, Article IV, Section 5-9
Sulfur Dioxide (SO ₂)	NA	NA	0.5 lb/MMBtu, and See Plant-Wide Conditions	PCBHRR Chapter V Article IX, Section 5-27 & Article VI, Section 5-16(n)(77)
Nitrogen Oxides (NO _x)	61.21	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS
Carbon Monoxide (CO)	7.84	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS

Authority for Requirement: Polk County Construction Group of Permits Number PR-000651-2023

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be available on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. (See Plant-Wide Conditions for requirements.)
- B. If the consumption of approved HVO fuels exceeds 35,000 gallons in a calendar year for EU-6 through EU-65, the owner or operator shall conduct additional stack tests. To satisfy this requirement, the owner or operator may perform the tests on approved HVO fuels at any time prior to exceeding the 35,000 gallon limit.
 - (1) The tests shall be done to demonstrate compliance with the emission limits for particulate matter (PM) and oxides of nitrogen (NO_x) above.
 - (2) Testing shall be done while burning 100% HVO fuel unless otherwise approved by the PCAQD.
 - (3) Two of the engines from the group of 60 emission units (EU-6 to EU-65) shall be tested as a representative engine.
 - (4) The tests shall be conducted by no later than March 31 of the year following the calendar year in which consumption of the approved HVO fuels exceeds 35,000 gallons for EU-6 through EU-65.

This testing requirement is considered a one-time stack test requirement provided that compliance with the emission limits is demonstrated. This requirement does not limit the PCAQD from requiring additional stack testing on proposed HVO fuels in accordance with Polk County Board of Health Rules and Regulations, Chapter V, Article VII, Section 5-18(1)(c) and Plantwide Condition 2.E.

Authority for Requirement: 40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-16 (n)(77)
40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
Polk County Board of Health Rules and Regulations Chapter V,
Article VIII, Section 5-20 (zzzz)
Polk County Construction Group of Permits Number PR-000651-2023

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

EP ID	Stack Height (feet)	Discharge Style	Stack Opening (inches)	Stack Temperature (°F)	Exhaust Flowrate (scfm)
6	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
7	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
8	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
9	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
10	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
11	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
12	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
13	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
14	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
15	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
16	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
17	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
18	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
19	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
20	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
21	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
22	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
23	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
24	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
25	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
26	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
27	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
28	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
29	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
30	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
31	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
32	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
33	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
34	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
35	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
36	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
37	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
38	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
39	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
40	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
41	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
42	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
43	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
44	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
45	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
46	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
47	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm

EP ID	Stack Height (feet)	Discharge Style	Stack Opening (inches)	Stack Temperature (°F)	Exhaust Flowrate (scfm)
48	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
49	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
50	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
51	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
52	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
53	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
54	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
55	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
56	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
57	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
58	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
59	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
60	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
61	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
62	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
63	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
64	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm
65	34.3 feet	Vertical, unobstructed	18 inches	1,022°F	5,949 scfm

Authority for Requirement: Polk County Construction Group of Permits Number PR-000651-2023

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

Monitoring Requirements

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

Compliance Demonstrations

Pollutant	Compliance Methodology	Frequency	Test Run Time	Test Method
PM – State	Stack Test	See footnote 1 below	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
NO _x	Stack Test	See footnote 1 below	1 hour	40 CFR 60, Appendix A, Method 7E

¹ Additional stack tests may be required if HVO fuel is burned in the engines. See Condition B Operating Requirements with Associated Monitoring and Recordkeeping above.

Authority for Requirement: Polk County Construction Group of Permits Number PR-000651-2023

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Number: 66

Emission Unit vented through this Emission Point: 66

Emission Unit Description: Cummins Diesel IC engine, model QST30-G5 NR2 DQFAD with closed crankcase ventilation

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 1000 kW; 72.2 gal/hr

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

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

Pollutant	lb/hr	tons/yr	Other Limits	Reference/Basis
Particulate Matter (PM)	0.62	NA	0.10 gr/dscf	PCBHRR Chapter V Article VI, Section 5-14(b)
PM ₁₀	0.62	NA	NA	NAAQS
PM _{2.5}	0.62 ⁴	NA	NA	NAAQS
Opacity	NA	NA	20%, and See Plant-Wide Conditions	PCBHRR Chapter V, Article IV, Section 5-9
Sulfur Dioxide (SO ₂)	NA	NA	0.5 lb/MMBtu, and See Plant-Wide Conditions	PCBHRR Chapter V Article IX, Section 5-27 & Article VI, Section 5-16(n)(77)
Nitrogen Oxides (NO _x)	16.14	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS
Carbon Monoxide (CO)	2.48	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS

Authority for Requirement: Polk County AQD Construction Permit 3310 Modified #2

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be available on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

(See Plant-Wide Conditions for requirements.)

Authority for Requirement: 40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-16 (n)(77)
40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
Polk County Board of Health Rules and Regulations Chapter V,
Article VIII, Section 5-20 (zzzz)
Polk County Construction Permit Number 3310 Modified #2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 25
Stack Opening, (inches, dia.): 10
Exhaust Flow Rate (scfm): 2,949
Exhaust Temperature (°F): 890
Discharge Style: Vertical, unobstructed
Authority for Requirement: Polk County AQD Construction Permit 3310 Modified #2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Numbers: EP-67 – EP-86

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description	Permit #
67	67	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3311 Modified#2
68	68	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3312 Modified#2
69	69	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3313 Modified#2
70	70	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3314 Modified#2
71	71	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3315 Modified#2
72	72	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3316 Modified#2
73	73	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3317 Modified#2
74	74	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3318 Modified#2
75	75	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3319 Modified#2
76	76	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3320 Modified#2

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description	Permit #
77	77	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3321 Modified#2
78	78	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3322 Modified#2
79	79	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3323 Modified#2
80	80	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3324 Modified#2
81	81	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3325 Modified#2
82	82	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3326 Modified#2
83	83	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3327 Modified#2
84	84	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3328 Modified#2
85	85	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3329 Modified#2
86	86	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3330 Modified#2

Applicable Requirements

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

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

Emission Point Specific Emission Limits

Pollutant	lb/hr	tons/yr	Other Limits	Reference/Basis
Particulate Matter (PM)	1.20	NA	0.10 gr/dscf	PCBHRR Chapter V Article VI, Section 5-14(b)
PM ₁₀	1.20	NA	NA	NAAQS
PM _{2.5}	1.20	NA	NA	NAAQS
Opacity	NA	NA	20%, and See Plant-Wide Conditions	PCBHRR Chapter V, Article IV, Section 5-9
Sulfur Dioxide (SO ₂)	NA	NA	0.5 lb/MMBtu, and See Plant-Wide Conditions	PCBHRR Chapter V Article IX, Section 5-27 & Article VI, Section 5-16(n)(77)
Nitrogen Oxides (NO _x)	63.32	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS
Carbon Monoxide (CO)	6.33	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS

Authority for Requirement: Polk County Construction Group of Permits Number PR-000652-2023

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be available on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

(See Plant-Wide Conditions for requirements.)

Authority for Requirement: 40 CFR Part 60 Subpart IIII
 567 IAC 23.1(2)"yyy"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VI, Section 5-16 (n)(77)
 40 CFR Part 63 Subpart ZZZZ
 567 IAC 23.1(4)"cz"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VIII, Section 5-20 (zzzz)
 Polk County Construction Group of Permits Number PR-000652-2023

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

EP ID	Stack Height (feet)	Discharge Style	Stack Opening (inches)	Stack Temperature (°F)	Exhaust Flowrate (scfm)
67	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
68	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
69	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
70	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
71	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
72	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
73	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
74	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
75	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
76	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
77	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
78	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
79	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
80	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
81	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
82	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
83	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
84	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
85	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm
86	25.3 feet	Vertical, unobstructed	22 inches	830°F	9,565 scfm

In addition, the engines are equipped with an open crankcase vent with a coalescing breather system that exhausts inside the building.

Authority for Requirement: Polk County Construction Group of Permits Number PR-000652-2023

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Numbers: EP-101 & EP-122

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description	Permit #
101	101	Cummins Diesel IC engine, model QSX15-G9 NR2 DFEK with closed crankcase ventilation	500 kW 34.7 gal/hr	NA	3654 Modified
122	122	Cummins Diesel IC engine, model QSX15-G9 NR2 DFEK with closed crankcase ventilation	500 kW 34.7 gal/hr	NA	3870

Applicable Requirements

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

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

Pollutant	lb/hr	tons/yr	Other Limits	Reference/Basis
Particulate Matter (PM)	0.15	NA	0.10 gr/dscf	PCBHRR Chapter V Article VI, Section 5-14(b)
PM ₁₀	0.15	NA	NA	NAAQS
PM _{2.5}	0.15	NA	NA	NAAQS
Opacity	NA	NA	20%, and See Plant-Wide Conditions	PCBHRR Chapter V, Article IV, Section 5-9
Sulfur Dioxide (SO ₂)	NA	NA	0.5 lb/MMBtu, and See Plant-Wide Conditions	PCBHRR Chapter V Article IX, Section 5-27 & Article VI, Section 5-16(n)(77)
Nitrogen Oxides (NO _x)	9.20	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS
Carbon Monoxide (CO)	1.10	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS

Authority for Requirement: Polk County Construction Group of Permits Number PR-000656-2023

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be available on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

(See Plant-Wide Conditions for requirements.)

Authority for Requirement: 40 CFR Part 60 Subpart IIII
567 IAC 23.1(2)"yyy"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-16 (n)(77)
40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"
Polk County Board of Health Rules and Regulations Chapter V,
Article VIII, Section 5-20 (zzzz)
Polk County Construction Group of Permits Number PR-000656-2023

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

EP ID	Stack Height (feet)	Discharge Style	Stack Opening (inches)	Stack Temperature (°F)	Exhaust Flowrate (scfm)
101	25.9 feet	Vertical, unobstructed	8 inches	900°F	1,407 scfm
122	25.9 feet	Vertical, unobstructed	8 inches	900°F	1,407 scfm

Authority for Requirement: PR-000656-2023

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

Emission Point ID Numbers: EP-102 – EP-121

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description	Permit #
102	102	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3655 Modified
103	103	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3656 Modified
104	104	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3657 Modified
105	105	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3658 Modified
106	106	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3659 Modified
107	107	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3660 Modified
108	108	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3661 Modified
109	109	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3662 Modified
110	110	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3663 Modified
111	111	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3664 Modified

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description	Permit #
112	112	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3665 Modified
113	113	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3666 Modified
114	114	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3667 Modified
115	115	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3668 Modified
116	116	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3669 Modified
117	117	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3670 Modified
118	118	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3671 Modified
119	119	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3672 Modified
120	120	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3673 Modified
121	121	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 208.0 gal/hr	NA	3674 Modified

Applicable Requirements

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

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

Emission Point Specific Emission Limits

Pollutant	lb/hr	tons/yr	Other Limits	Reference/Basis
Particulate Matter (PM)	1.20	NA	0.10 gr/dscf	PCBHRR Chapter V Article VI, Section 5-14(b)
PM ₁₀	1.20	NA	NA	NAAQS
PM _{2.5}	1.20	NA	NA	NAAQS
Opacity	NA	NA	20%, and See Plant-Wide Conditions	PCBHRR Chapter V, Article IV, Section 5-9
Sulfur Dioxide (SO ₂)	NA	NA	0.5 lb/MMBtu, and See Plant-Wide Conditions	PCBHRR Chapter V Article IX, Section 5-27 & Article VI, Section 5-16(n)(77)
Nitrogen Oxides (NO _x)	63.32	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS
Carbon Monoxide (CO)	6.33	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS

Authority for Requirement: Polk County Construction Group of Permits Number PR-000653-2023

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be available on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

(See Plant-Wide Conditions for requirements.)

Authority for Requirement: 40 CFR Part 60 Subpart III
 567 IAC 23.1(2)"yyy"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VI, Section 5-16 (n)(77)
 40 CFR Part 63 Subpart ZZZZ
 567 IAC 23.1(4)"cz"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VIII, Section 5-20 (zzzz)
 Polk County Construction Group of Permits Number PR-000653-2023

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

EP ID	Stack Height (feet)	Discharge Style	Stack Opening (inches)	Stack Temperature (°F)	Exhaust Flowrate (scfm)
102	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
103	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
104	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
105	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
106	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
107	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
108	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
109	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
110	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
111	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
112	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
113	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
114	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
115	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
116	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
117	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
118	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
119	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
120	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm
121	27.1 feet	Vertical, unobstructed	21.5 inches	830°F	9,565 scfm

In addition, the engines are equipped with an open crankcase vent with a coalescing breather system that exhausts inside the building.

Authority for Requirement: Polk County Construction Group of Permits Number PR-000653-2023

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Emission Point ID Numbers: EP-123 – EP-142

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description¹	Permit #
123	123	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-123)	3847
124	124	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-124)	3848
125	125	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-125)	3849
126	126	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-126)	3850
127	127	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-127)	3851
128	128	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-128)	3852
129	129	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-129)	3853
130	130	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-130)	3854
131	131	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-131)	3855
132	132	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-132)	3856

EP #	EU #	Emission Unit Description	Maximum Design Capacity	Control Equipment Description¹	Permit #
133	133	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-133)	3857
134	134	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-134)	3858
135	135	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-135)	3859
136	136	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-136)	3860
137	137	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-137)	3861
138	138	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-138)	3862
139	139	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-139)	3863
140	140	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-140)	3864
141	141	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-141)	3865
142	142	Cummins Diesel IC engine, model QSK95-G9 C3000-D6e with open crankcase ventilation	3000 kW 205.0 gal/hr	Diesel Particulate Filter – Selective Catalytic Reduction System (CE-142)	3866

¹ The Control System consists of a Diesel Oxidation Catalyst (DOC) in series with a Diesel Particulate Filter (DPF), which is also in series with Selective Catalytic Reduction (SCR).

Applicable Requirements

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

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

Emission Point Specific Emission Limits

Pollutant	lb/hr	tons/yr	Other Limits	Reference/Basis
Particulate Matter (PM) – Federal	NA	NA	NA	PCBHRR Chapter V Article VI, Section 5-16(n)(77)
Particulate Matter (PM) – State	0.18	NA	0.10 gr/dscf	PCBHRR Chapter V Article VI, Section 5-14(b)
PM ₁₀	0.18	NA	NA	NAAQS
PM _{2.5}	0.18	NA	NA	NAAQS
Opacity	NA	NA	20%, and See Plant-Wide Conditions	PCBHRR Chapter V, Article IV, Section 5-9
Sulfur Dioxide (SO ₂)	NA	NA	0.5 lb/MMBtu, and See Plant-Wide Conditions	PCBHRR Chapter V Article IX, Section 5-27 & Article VI, Section 5-16(n)(77)
Nitrogen Oxides (NO _x)	11.28	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS
Carbon Monoxide (CO)	6.33	NA	See Plant-Wide Conditions	PCBHRR Chapter V Article VI, Section 5-16(n)(77), NAAQS

Authority for Requirement: Polk County Construction Group of Permits Number PR-000655-2023

Operating Requirements with Associated Monitoring and Recordkeeping

All records as required by this permit shall be available on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. (See Plantwide Conditions for requirements.)
- B. If the consumption of approved HVO fuels exceeds 30,000 gallons in a calendar year for EU-123 through EU-142, the owner or operator shall conduct additional stack tests. To satisfy this requirement, the owner or operator may perform the tests on approved HVO fuels at any time prior to exceeding the 30,000 gallon limit.
 - (1) The tests shall be done to demonstrate compliance with the emission limits for particulate matter (PM) and oxides of nitrogen (NO_x).

- (2) Testing shall be done while burning 100% HVO fuel unless otherwise approved by the PCAQD.
- (3) One of the engines from the group of 20 emission units (EU-123 to EU-142) shall be tested as a representative engine.
- (4) The tests shall be conducted by no later than March 31 of the year following the calendar year in which consumption of the approved HVO fuels exceeds 30,000 gallons for EU-123 through EU-142.

This testing requirement is considered a one-time stack test requirement provided that compliance with the emission limits is demonstrated. This requirement does not limit the PCAQD from requiring additional stack testing on proposed HVO fuels in accordance with Polk County Board of Health Rules and Regulations, Chapter V, Article VII, Section 5-18(1)(c) and Plantwide Condition 2.E.

- C. Each engine (EU-123 to EU-142) shall be equipped with a Diesel Particulate Filter (DPF) in series with Selective Catalytic Reduction (SCR) System for controls (CE-123 to CE-142). The DPF-SCR system is equipped with a controller which monitors system parameters to determine if the control system is operating properly, and displays alarms to alert operators when errors occur. The controller shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals or per a written facility specific operation and maintenance plan.
- (1) The DPF is a control technology that traps the particulate matter in a flow filter substrate and periodically removes the collected particles by either physical action or by oxidizing (burning off) the particles in a process called regeneration. The DPF uses a passive regeneration system. The controller shall monitor backpressure and notify the owner or operator when the low back pressure limit and the high back pressure limit of the engine is approached. This controller shall measure the backpressure of the engine in inches water column.
 - a. The engine's backpressure shall be maintained between the low and high setpoints recommended by the DPF manufacturer (Miratech Group LLC) for the different engine loads. A copy of the setpoints shall be maintained on-site for each engine (EU-123 to EU-142).
 - b. The owner or operator shall collect and record the pressure drop across each DPF, in inches of water, continuously while in operation. It is acceptable to average the continuous readings over a 15-minute (or less) time period and to record the average pressure drop.
 - c. If the pressure drop across the DPF falls outside the range specified in Condition C(1), the owner or operator shall investigate the engine (EU-123 to EU-142) and the DPF and make corrections to them as necessary. The owner or operator shall maintain a record of all corrective actions taken after the backpressure monitor has alerted that the low or high backpressure limit is approached.

- d. The owner or operator may use a different unit of measure for the backpressure without modifying the construction permits for the engines provided that they submit a written notification to the PCAQD prior to making that change. The owner or operator shall also provide the PCAQD the manufacturer's recommended setpoints for the backpressure in the new units of measure.
- (2) Miratech Group LLC, the manufacturer of the DPF, has established the following operating criteria that should be followed to ensure proper control of particulate matter:
 - a. The engine's minimum exhaust temperature for filter regeneration is 500°F. At 550°F, regeneration takes approximately 45 minutes.
 - b. The maximum number of consecutive minutes that an engine can operate with an exhaust temperature below 500°F is 720 minutes.
 - c. The maximum number of cold starts and 40 minute idle sessions that an engine can have before regeneration is required is 18.
 - d. Each engine's (EU-123 to EU-142) controller shall monitor and record the engine's exhaust temperature continuously at the inlet to the DPF, while in operation. It is acceptable to average the continuous readings over a 15 minute (or less) time period and to record the average temperature.
 - (3) The owner or operator shall develop an operating and maintenance plan for the DPF, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.
 - a. The DPFs shall be cleaned of ash at the frequency recommended by the DPF's manufacturer. The date of cleaning shall be recorded.
 - b. The owner or operator shall maintain a record of all inspections and maintenance and any actions resulting from the inspections and maintenance of the DPFs.
 - c. Before replacing a DPF System entirely, the owner or operator shall apply for and obtain a modification to the engine's construction permit.
 - (4) As part of the Selective Catalytic Reduction (SCR) control system for controlling NOx emissions, a diesel exhaust fluid (DEF) is injected into the engine's exhaust gases. A DEF tank is located within the bottom of the engine fuel tank. Per the manufacturer, 18.5 gallons per hour of DEF is consumed per hour at 100% load. The owner or operator shall:
 - a. Use the DEF that is recommended by the engine's manufacturer.
 - b. DEF injection rates, based on engine load, shall be established during commissioning of each engine. Maintain a record of the engine's (EU-123 to EU-142) DEF injection rate for each engine load.
 - c. Maintain a record of the identification of the DEF used (i.e. purchase records, SDS, etc.).
 - d. Maintain a record of the amount of DEF used (gallons) each time the engines (EU-123 to EU-142) are in operation.
 - (5) Miratech Group LLC, the manufacturer of the SCR, has established the following operating criteria that should be followed to ensure proper control of NOx:
 - a. The catalyst's (extruded ceramic honeycomb) optimum temperature range is 572°F to 977°F.

- b. The DEF is injected into the mixing section after the exhaust temperature has reached approximately 575°F.
 - c. Each engine's controller shall monitor and record the exhaust temperature continuously at the outlet of the SCR while the engines are in operation. It is acceptable to average the continuous readings over a 15 minute (or less) time period and to record the average temperature.
 - d. Excluding the initial startup period and once the engine has reached the injection temperature of 575°F, if the exhaust temperature falls outside the range specified in Condition 5.A(5), the owner or operator shall investigate the engine (EU-123 to EU-142) and the SCR system and make corrections to them as necessary. The owner or operator shall maintain a record of all corrective actions taken.
- (6) The owner or operator shall develop an operating and maintenance plan for the SCR system, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.
- a. The owner or operator shall establish a schedule for replenishing the DEF to ensure that the tank never runs dry. Each engine's controller shall monitor the DEF tank level. A low DEF tank alarm shall be used to indicate when the tank needs to be refilled.
 - b. A fuel circulation heating system shall be used to maintain DEF temperatures during cold climate conditions. The owner or operator shall ensure that the temperature of the DEF is maintained at levels conducive to operation during winter conditions.
 - c. The owner or operator shall establish criteria to validate the condition and effectiveness of the of the catalyst.
 - d. The owner or operator shall maintain a record of all inspections and maintenance and any action resulting from the inspection and maintenance of the SCR system.
 - e. Before replacing a SCR System entirely, the owner or operator shall apply for and obtain a modification to the engine's construction permit.

Authority for Requirement: 40 CFR Part 60 Subpart III
 567 IAC 23.1(2)"yyy"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VI, Section 5-16 (n)(77)
 40 CFR Part 63 Subpart ZZZZ
 567 IAC 23.1(4)"cz"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VIII, Section 5-20 (zzzz)
 Polk County Construction Group of Permits Number PR-000655-
 2023

Emission Point Characteristics

The emission points shall conform to the specifications listed below.

EP ID	Stack Height (feet)	Discharge Style	Stack Opening (inches)	Stack Temperature (°F)	Exhaust Flowrate (scfm)
123	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
124	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
125	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
126	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
127	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
128	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
129	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
130	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
131	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
132	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
133	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
134	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
135	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
136	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
137	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
138	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
139	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
140	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
141	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm
142	32.2 feet	Vertical, unobstructed	30.0 inches	828°F	9,398 scfm

In addition, the engines are equipped with an open crankcase vent with a coalescing breather system that exhausts inside the building.

Authority for Requirement: Polk County Construction Group of Permits Number PR-000651-2023

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

Monitoring Requirements

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

Compliance Demonstrations

If an initial stack test is specified in the “Compliance Demonstration” table, the owner or the owner’s authorized agent shall demonstrate compliance with the emission limitations contained in Condition 1 (Emission Limits) within the applicable time period specified below:

- Within sixty (60) days after achieving the maximum production rate but not later than one hundred eighty (180) days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.

Table 5 - Compliance Demonstrations

Pollutant	Compliance Methodology	Frequency	Test Method
PM – State	Stack Test ¹	One time ²	40 CFR 60, Appendix A, Method 5 40 CFR 51 Appendix M Method 202
NO _x	Stack Test ¹	One time ²	40 CFR 60, Appendix A, Method 7E

¹ The facility may choose to test any two of the twenty engines and use the test results as representative data for all twenty engines. Testing shall not include a measurement of crankcase emissions unless directed through a permitted emission point.

² Additional stack tests may be required if HVO fuel is burned in the engines. See Condition B of the Operating Requirements with Associated Monitoring and Recordkeeping section above.

Authority for Requirement: Polk County Construction Group of Permits Number PR-000655-2023

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 24.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code (IAC). When 567 IAC as amended May 15, 2024, and cited in this permit becomes State Implementation Plan (SIP) approved, it will supersede 567 IAC as amended February 8, 2023. Prior to May 15, 2024, all Title V rule citations in this Title V permit were found and cited in 567 IAC Chapter 22. During the period from May 15, 2024, to the date that 567 IAC as amended May 15, 2024, is approved into the SIP, both 567 IAC as amended May 15, 2024, and 567 IAC as amended February 8, 2023 form the legal basis for the applicable requirements included in this permit. A crosswalk showing the citation changes is attached to this permit in Appendix 2.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 24.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 24.105(2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 24.108(1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 24.108(14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 24.108(9)"b"*
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 24.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—24.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—24.105(455B). *567 IAC 24.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 24.105(2). *567 IAC 24.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable

inquiry, the statements and information in the document are true, accurate, and complete. 567 IAC 24.107(4)

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and Polk County Air Quality Division. 567 IAC 24.108(15)"e"

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 24.107(4). The semi-annual monitoring report shall be submitted to the director and Polk County Air Quality Division. 567 IAC 24.108 (5)

G6. Annual Fee

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

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

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

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 24.108 (15)"b" and Chapter V, Article II, 5-3 and 5-4.*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 24.108 (9)"e" and Chapter V, Article X, 5-46 and 5-47.*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 21.8(1)*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:

- a. The date, place and time of sampling or measurements
- b. The date the analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses; and
- f. The operating conditions as existing at the time of sampling or measurement.
- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance

records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

- a. Comply with all terms and conditions of this permit specific to each alternative scenario.
- b. Maintain a log at the permitted facility of the scenario under which it is operating.
- c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 24.108(4), 567 IAC 24.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

- a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 24;
- b. Compliance test methods specified in 567 Chapter 21; or
- c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 24.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

- a. Any monitoring or testing methods provided in these rules; or
- b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 24.108(6)*

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process

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

2. Excess Emissions Reporting

a. **Initial Reporting of Excess Emissions.** An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 21.10(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 21.10(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. **Written Reporting of Excess Emissions.** A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.

- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 21.7(1)-567 IAC 21.7(4) and Chapter V, Article VI, 5-17.*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 24.108(5)"b"*

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 24.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—24.140(455B) through 567 - 24.144(455B));.
 - e. The changes comply with all applicable requirements.
 - f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

- i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.
- 567 IAC 24.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 24.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 24.110(1). *567 IAC 24.110(3)*

4. The permit shield provided in subrule 24.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 24.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 24.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that does any of the following:

- i. Correct typographical errors
- ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
- iii. Require more frequent monitoring or reporting by the permittee; or
- iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Title V Permit Modification.

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

- i. Do not violate any applicable requirement;
- ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
- iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
- iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
- v. Are not modifications under any provision of Title I of the Act; and
- vi. Are not required to be processed as significant modification under rule 567 - 24.113(455B).

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
- ii. The permittee's suggested draft permit;
- iii. Certification by a responsible official, pursuant to 567 IAC 24.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
- iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 24.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 24.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the

method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 24, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. 567 IAC 24.111-567 IAC 24.113

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 24.1(2) and Chapter V, Article X, 5-33, or to meet the parameters established in 567 IAC 24.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 24.8 & Polk County Chapter V, Article X, 5-28, or permits required pursuant to rules 567 IAC 24.4, 567 IAC 24.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 24.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. 567 IAC 24.1(1) and Chapter V, Article X, 5-28.

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations (567 IAC 23.1(3)"a"); training fires and controlled burning of a demolished building (567 IAC 23.2).

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in Chapter V, Article III, 5-7- State Only.

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. 567 IAC 24.108(7)

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 24.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
 - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original

permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 24.108(17)"a", 567 IAC 24.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 24.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 24.114(2)*
5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 24.114(3)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. Such applicable requirements are included and are specifically identified in the permit;
or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:

- a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
- d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 24.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 24.108 (8)* and *Chapter V, Article XVII, 5-77.*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 24.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of *567 IAC 24.111(1)*. *567 IAC 24.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 24.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks (42 days) of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing,

continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 343-6589

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 21.10(7)"a", 567 IAC 21.10(9) and Chapter V, Article VII, 5-18 and 5-19.

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Iowa Compliance Officer
Air Branch
Enforcement and Compliance Assurance Division
U.S. EPA Region 7
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
6200 Park Ave
Suite 200
Des Moines, IA 50321
(515) 313-8325

Reports or notifications to the local program shall be directed to the supervisor at the appropriate local program. Current address and phone number is:

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

V. Appendix 1: Weblinks to applicable NSPS and NESHAP

- **40 CFR 60 Subpart III—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-III>
- **40 CFR 63- Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ>

VI. Appendix 2: Crosswalk showing the AQB Chapter citation changes/ crosswalk

VI. Appendix 2: Crosswalk showing the AQB Chapter citation changes/ crosswalk

AQB Chapter Tracking Crosswalk

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

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

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

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

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

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

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

23	23	Emission Standards	Air Emission Standards	Kept
23.1	23.1	Emission standards	Emission standards	Kept, language updated, tables used
23.2	23.2	Open burning	Open burning	Kept, some language updated
23.3	23.3	Specific contaminants	Specific contaminants	Kept, some language updated
23.4	23.4	Specific processes	Specific processes	Kept, some language updated
23.5	23.5	Anaerobic lagoons	Anaerobic lagoons	Kept, some language updated
23.6	23.6	Alternative emission limits (the “bubble concept”)	Reserved	Removed

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

Previous Chapter Number (Prior to 5/15/2024)	Current Chapter Number	Previous Title and Description (Prior to 5/15/2024)	Current Title and Description	Actions Taken
30	30	Fees	Fee	Kept
30.1	30.1	Purpose	Purpose	Kept, language updated
30.2	30.2	Fees associated with new source review applications	Fees associated with new source review applications	Kept, some language updated
30.3	30.3	Fees associated with asbestos demolition or renovation notification	Fees associated with asbestos demolition or renovation notification	Kept, some language updated
30.4	30.4	Fees associated with Title V operating permits	Fees associated with Title V operating permits	Kept, some language updated
30.5	30.5	Fee advisory groups	Fee advisory groups	Kept, language updated
30.6	30.6	Process to establish or adjust fees and notification of fee rates	Process to establish or adjust fees and notification of fee rates	Kept, some language updated
30.7	30.7	Fee revenue	Reserved	Language removed

31	31	Nonattainment Areas	Nonattainment New Source Review	Kept
31.1	31.1	Permit requirements relating to nonattainment areas	Permit requirements relating to nonattainment areas	Kept, some language updated
31.2	31.2	Conformity of general federal actions to the Iowa state implementation plan or federal implementation plan - Rescinded	Reserved	Language removed
31.3	31.3	Nonattainment new source review requirements for areas designated nonattainment on or after May 18, 1998	Nonattainment new source review (NNSR) requirements for areas designated nonattainment	Kept, some language updated
31.4	31.4	Preconstruction review permit program	Preconstruction review permit program	Kept
31.5 - 31.8	31.5 - 31.8	Reserved	Reserved	Kept
31.9	31.9	Actuals PALs	Actuals PALs	Kept, some language updated
31.10	31.10	Validity of rules	Validity of rules	Kept
31.11 - 31.19	N/A	Reserved	N/A	Rescinded and removed
31.20	N/A	Special requirements for nonattainment areas designated before May 18, 1998	N/A	Rescinded and removed

32	N/A	AFO Field Study	N/A	Rescinded Ch. 32. (Reserved)
32.1	N/A	Animal feeding operations field study	N/A	Rescinded, reserved, and language removed
32.2	N/A	Definitions	N/A	Rescinded, reserved, and language removed
32.3	N/A	Exceedance of the health effects value (HEV) for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.4	N/A	Exceedance of the health effects standard (HES) for hydrogen sulfide	N/A	Rescinded, reserved, and language removed
32.5	N/A	Iowa Air Sampling Manual	N/A	Rescinded, reserved, and language removed

33	33	Special regulations and construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD) of air quality	Construction permit requirements for major stationary sources—Prevention of significant deterioration (PSD)	Kept
33.1	33.1	Purpose	Purpose	Kept, some language updated
33.2	33.2	Reserved	Reserved	Kept
33.3	33.3	Special construction permit requirements for major stationary sources in areas designated attainment or unclassified (PSD)	PSD construction permit requirements for major stationary sources	Kept, some language updated
33.4 - 33.8	33.4 - 33.8	Reserved	Reserved	Kept
33.9	33.9	Plantwide applicability limitations (PALs)	Plantwide applicability limitations (PALs)	Kept, some language updated
33.10	33.10	Exceptions to adoption by reference	Exceptions to adoption by reference	Kept, some language updated

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

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

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