

Iowa Department of Natural Resources

Draft Title V Operating Permit Fact Sheet

This document has been prepared to fulfill the public participation requirements of 40 CFR Part 70 and 567 Iowa Administrative Code (IAC) 24.107(6). 40 CFR Part 70 contains operating permit regulations pursuant to Title V of the Clean Air Act.

The Iowa Department of Natural Resources (DNR) finds that:

1. Ginger West Data Center, located at 11100 Booneville Rd, West Des Moines, IA 50266, has applied for a Title V Operating Permit. The designated responsible official of this facility is Rich Massie.
2. Ginger West Data Center is a data processing and preparation facility. This facility consists of 126 emission units with potential emissions of:

Pollutant	Abbreviation	Potential Emissions (Tons per Year)
Particulate Matter ($\leq 2.5 \mu\text{m}$)	PM _{2.5}	4.55
Particulate Matter ($\leq 10 \mu\text{m}$)	PM ₁₀	4.55
Particulate Matter	PM	4.55
Sulfur Dioxide	SO ₂	0.46
Nitrogen Oxides	NO _x	245.56
Volatile Organic Compounds	VOC	32.63
Carbon Monoxide	CO	55.67
Lead	Lead	0
Hazardous Air Pollutants ⁽¹⁾	HAP	0.42

⁽¹⁾ May include the following: Acetaldehyde, acrolein, benzene, formaldehyde, naphthalene, toluene, xylenes, total PAH.

3. Ginger West Data Center submitted a Title V Operating Permit application on August 6, 2025 and any additional information describing the facility on January 26, 2026. Based on the information provided in these documents, DNR has made an initial determination that the facility meets all the applicable criteria for the issuance of an operating permit specified in 567 IAC 24.107.
4. DNR has complied with the procedures set forth in 567 IAC 24.107, including those regarding public notice, opportunity for public hearing, and notification of EPA and surrounding state and local air pollution programs.

DNR procedures for reaching a final decision on the draft permit:

1. The public comment period for the draft permit will run from February 26, 2026 through March 28, 2026. During the public comment period, anyone may submit written comments on the permit. Mail signed comments to Zane Peters at the DNR address shown below. The beginning date of this public comment period also serves as the beginning of the U.S. Environmental Protection Agency's (EPA) 45-day review period, provided the EPA does not seek a separate review period.
2. Written requests for a public hearing concerning the permit may also be submitted during the comment period. Any hearing request must state the person's interest in the subject matter, and the nature of the issues proposed to be raised at the hearing. DNR will hold a public hearing upon finding, on the basis of requests, a significant degree of relevant public interest in a draft permit. Mail hearing requests to Zane Peters at the DNR address shown below.
3. DNR will keep a record of the issues raised during the public participation process, and will prepare written responses to all comments received. The comments and responses will be compiled into a responsiveness summary document. After the close of the public comment period, DNR will make a final decision on the permit application. The responsiveness summary and the final permit will be available to the public upon request.

Zane Peters
Iowa Department of Natural Resources - Air Quality Bureau
6200 Park Ave
Ste #200
Des Moines, Iowa 50321
Phone: (515) 808-0458
E-mail: zane.peters@dnr.iowa.gov

DNR concludes that:

1. DNR has authority under 455B.133 Code of Iowa to promulgate rules contained in 567 IAC Chapters 21-33, including, but not limited to, rules containing emission limits, providing for compliance schedules, compliance determination methods and issuance of permits.
2. DNR has the authority to issue operating permits for air contaminant sources and to include conditions in such permits under 455B.134 Code of Iowa.
3. The emission limits included in this permit are authorized by 455B.133 Code of Iowa and 567 IAC Chapters 21-33.
4. DNR is required to comply with 567 IAC Chapter 24 in conjunction with issuing a Title V Operating Permit.
5. The issuance of this permit does not preclude the DNR from pursuing enforcement action for any violation.

Title V Application Review Notes

Applicant:	Ginger West Data Center – 11100 Booneville Rd
SIC Code:	7374
City:	West Des Moines
County:	Dallas
EIQ#:	92-7022
Facility#:	25-17-008
Permit #:	????
Reviewer:	Zane Peters
Date:	11/04/2025

Facility Identification

Facility Name:	Ginger West Data Center – 11100 Booneville Rd
Facility Location:	11100 Booneville Rd, West Des Moines, IA 50266
Responsible Official:	Rich Massie
Phone:	360-633-5051

Background:

Ginger West Data Center is applying for a new Title V Operating Permit for facility number 25-17-008 located at 11100 Booneville Rd, West Des Moines, IA 50266, which has been recently constructed. Ginger West Data Center is owned by Microsoft Corporation. The only permitted air sources are stationary diesel engines for emergency power to support data center operations. Each engine has a storage tank of approximately 8000 gallons that meets the exemption from paragraph “m” or “t”. 567 IAC 22.1(2).

The Ginger West Data Center is now major for Title V because of potential NO_x emissions. It becomes major with the issuance of the construction permits in Project 24-180. Under the Title V rules, the facility has one year to apply for the Title V operating permit from the time it becomes major.

The facility currently consists of 126 significant emission units. The initial permit application was submitted on 08/06/2025.

Title V Applicability

Pollutant	Major for Title V?
PM ₁₀	<input type="checkbox"/>
SO ₂	<input type="checkbox"/>
NO _x	<input checked="" type="checkbox"/>
VOC	<input type="checkbox"/>
CO	<input type="checkbox"/>
Lead	<input type="checkbox"/>
Individual HAP	<input type="checkbox"/>
Total HAPs	<input type="checkbox"/>

Program Applicability:

- Major for PSD: No
- 40 CFR 60 NSPS: Yes
 - 40 CFR 60 Subpart A – General Provisions
 - 40 CFR 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- 40 CFR Part 61 NESHAP: No
- 40 CFR Part 63 NESHAP: Yes
 - 40 CFR 63 Subpart A – General Provisions
 - 40 CFR 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
- Major Source of HAPs: No
- Acid Rain: No.
- Stratospheric Ozone Protection: No
- Prevention of Accidental Releases: No

Stack Testing:

EP-2 – EP-42:

Pollutant – Particulate Matter (PM) ⁽¹⁾

Stack Test to be Completed by: ⁽²⁾⁽³⁾

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

40 CFR 51, Appendix M, Method 202

Authority for Requirement: Construction Permits listed in Table: 4,308/4,309 HP
Engines

Pollutant – Nitrogen Oxides (NO_x) ⁽⁴⁾

Stack Test to be Completed by: ⁽²⁾⁽³⁾

Test Method - 40 CFR 60, Appendix A, Method 7E

Authority for Requirement: Construction Permits listed in Table: 4,308/4309 HP
Engines

⁽¹⁾ A one-time PM stack test is required for the group of engines (i.e. EP-23 to EP-42). The facility may choose to test any two of the twenty engines from the group 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⁾ Within 60 days after achieving the maximum production rate but not later than 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.

⁽³⁾ Additional stack tests may be required for all emission points (EP-2 – EP-42) if Paraffinic fuel is burned in the engines. See Operating Requirements with Associated Monitoring and Recordkeeping Condition U.

⁽⁴⁾ A one-time NO_x stack test is required for the group of engines (i.e. EP-23 to EP-42). The facility may choose to test any two of the twenty engines from the group 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.

EP-44 – EP-126:

Pollutant – Particulate Matter (PM) ⁽¹⁾

Stack Test to be Completed by: ⁽²⁾⁽³⁾

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

40 CFR 51, Appendix M, Method 202

Authority for Requirement: Construction Permits listed in Table: 4,308/4,309 HP
Engines

Pollutant – Nitrogen Oxides (NO_x) ⁽¹⁾

Stack Test to be Completed by: ⁽²⁾⁽³⁾

Test Method - 40 CFR 60, Appendix A, Method 7E

Authority for Requirement: Construction Permits listed in Table: 4,308/4,309 HP
Engines

⁽¹⁾ A one-time PM and NO_x stack test is required for this group of engines. The facility may choose to test any eight of the eighty engines (EP-44-EP-126) from the group and use the test results as representative data for all eighty engines. Testing shall not include a measurement of crankcase emissions unless directed through a permitted emission point.

⁽²⁾ Within 60 days after achieving the maximum production rate but not later than 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.

⁽³⁾ Additional stack tests may be required for all emission points (EP-44-EP-126) if Paraffinic fuel is burned in the engines. See Operating Requirements with Associated Monitoring and Recordkeeping Condition U.

Stack Testing Completions:

EP-2 – EP-42:

- EP-8 and EP-9
 - Tested and passed on February 20-21, 2024
- EP-25 and EP-35
 - Tested and passed on October 22-23, 2024

EP-44 – E P-126:

- 2 of 8 initial tests completed
- EP-56 and EU-57
 - Tested and passed on February 14-17, 2025

Periodic Monitoring:

All periodic monitoring requirements are in accordance with the Department's Periodic Monitoring Guidance Document.

No monitoring requirements exist at this time.