

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. Maquoketa Municipal Electric Utility, a one-source facility located at 505 North Old Highway 61, 105 Generac Drive, and 110 Pershing Road, Maquoketa, IA 52060, has applied to renew their Title V Operating Permit. The designated responsible official of this facility is Chris Krogman.
2. Maquoketa Municipal Electric Utility is an electric services facility. This facility consists of thirty (30) significant emission units with potential emissions of:

Pollutant	Abbreviation	Potential Emissions (Tons per Year)
Particulate Matter ($\leq 2.5 \mu\text{m}$)	PM _{2.5}	14.31
Particulate Matter ($\leq 10 \mu\text{m}$)	PM ₁₀	14.44
Particulate Matter	PM	14.31
Sulfur Dioxide	SO ₂	5.52
Nitrogen Oxides	NO _x	245.00
Volatile Organic Compounds	VOC	46.04
Carbon Monoxide	CO	33.31
Lead	Lead	0
Hazardous Air Pollutants ⁽¹⁾	HAP	0.132

⁽¹⁾ May include the following: Acetaldehyde, Acrolein, Benzene, Formaldehyde, Naphthalene, Toluene, and Xylenes.

3. Maquoketa Municipal Electric Utility submitted a Title V Operating Permit renewal application on August 16, 2024. 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 June 5, 2025 through July 5, 2025. During the public comment period, anyone may submit written comments on the permit. Mail signed comments to Jason Dowie 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 Jason Dowie 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 renewal application. The responsiveness summary and the final permit will be available to the public upon request.

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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.

DRAFT TITLE V APPLICATION REVIEW NOTES

Applicant:	Maquoketa Municipal Electric Utility
SIC Code:	4911
City:	Maquoketa
County:	Jackson
EIQ#:	92-3383
Facility#:	49-01-013
Permit #:	04-TV-009R4
Reviewer:	Jason Dowie
Date:	May 27, 2025

Facility Identification

Facility Name:	Maquoketa Municipal Electric Utility
Facility Location:	505 North Old Highway 61; 105 Generac Drive; 110 Pershing Road
Responsible Official:	Chris Krogman, General Manager
Phone:	563-652-6891

Background

Maquoketa Municipal Electric Utility applied to renew their Part 70 Title V Operating Permit. The Title V Operating Permit Renewal Application was received August 16, 2024. The North Plant (505 North Old Highway 61), South Plant (105 Generac Drive) and Wastewater Treatment Plant (110 Pershing Road) are considered one source for Title V permitting purposes. The facility consists of 30 (thirty) significant emission units.

General Changes

- Permit number was updated to 04-TV-009R4 (pp. 1, 4, 6, 8, and footer)
- Permit effective dates were updated
- Permit Contact person was changed from Boyd Schoenthaler to AJ Bowman
- All references to IAC Chapter 22 were updated to Chapter 24
- The label for Operating Permits Section Supervisor was updated from Lori Hanson to Marnie Stein
- Iowa Code Changes Crosswalk was added to the permit as Appendix A
- EP 5N2833 has been removed from the Equipment List and Emission Point information because the equipment has been removed and the construction permit (13-A-542) has been rescinded
- EP-21 was added to the Equipment List and Emission Point information as a replacement for EP 5N2833
- Various typos, spelling, and punctuation errors were corrected
- The “temperature and flowrate” text following each Emission Point Characteristics section was updated
- The General Conditions were updated to the most recent version

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
Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Several tanks at this facility were subject to Subpart Kb, the Volatile Organic Liquid Storage Vessel NSPS. Due to revisions to this Subpart effective October 15, 2003, these tanks are now considered exempt from Subpart Kb. The requirement to keep records showing the dimensions and capacity of the tanks that were cited in construction permits no longer applies and have been intentionally omitted from the Title V permit.

- 40 CFR Part 61 NESHAP: No
- 40 CFR Part 63 NESHAP: Yes
Subpart ZZZZ – Reciprocating Engines (RICE)
- Major Source of HAPs: No
- Acid Rain: Units 1A, 2A, 4A, 8, 9, 11, 12, 13 and 14 qualify under the new unit exemption listed under 24.123(1). The remaining units are not affected units because they commenced commercial operation before November 15, 1990; and did not, as of November 15, 1990, and do not currently serve a generator with a nameplate capacity of greater than 25 MWe, [567 IAC 24.122(2)"b"].
- Stratospheric Ozone Protection: Yes (Air Conditioning only) see General Condition G23 in the Operating Permit.
- Prevention of Accidental Releases: No

Emission Point Information

- Maquoketa Municipal Electric Utility is limited to 245 tons of NO_x facility wide per rolling 12-month period. This includes all combustion sources.
- The insignificant equipment list had no changes since the last permit renewal.
- Emission Points EP-11 thru EP-14 were deemed to be valid for non-emergency operation and were re-grouped with Emission Points EP-1A thru EP-9 due to like requirements.

Potential Emissions

Summary of Potential Criteria Pollutant Emissions								
PM _{2.5} (tpy)	PM ₁₀ (tpy)	PM (tpy)	SO ₂ (tpy)	NO _x (tpy)	VOC (tpy)	CO (tpy)	Lead (tpy)	Total HAPs (tpy)
14.31	14.44	14.31	5.52	245.00	46.04	33.31	0.0	0.132

Discrepancies between facility provided emission totals and those DNR determined totals are due to differences in numerical rounding and the facility appears to have included only PM₁₀ values associated with the Cooling Towers.

List of Rescinded Construction Permits

Emission Point	Emission Unit	Description	Construction Permit	Date Rescinded
EP 5N2833	EU 5N2833	Diesel Generator (620 kW)	13-A-542	4/23/2025
EP-B4	EU-B4	25,000 Gallon Fuel Oil Storage Tank	02-A-700	1/7/2019
EP-B5	EU-B5	25,000 Gallon Fuel Oil Storage Tank	02-A-701	1/7/2019
EP-B1	EU-B1	Fuel Oil Storage Tank (12,000 gallons)	00-A-558	1/30/09
EP-B2	EU-B2	Fuel Oil Storage Tank (12,000 gallons)	00-A-559	1/30/09
EP-B3	EU-B3	Fuel Oil Storage Tank (12,000 gallons)	00-A-560	1/30/09
EP-1	EU-1	1300 kW Fulton Dual Fuel Generator	96-A-027-S6	4/5/04
EP-2	EU-2	800 kW McIntosh-Seymore Diesel Generator	96-A-028-S6	4/5/04

Periodic Monitoring/CAM

There have been no changes in Periodic Monitoring or CAM since the last renewal.