

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) 22.107(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. IPL – Lime Creek Combustion Turbines Station, located at 24510 Orchid Ave., Mason City, IA 50402 has applied to renew their Title V Operating Permit. The designated responsible official of this facility is James Fleming, Manager GENCO Operations.
2. IPL – Lime Creek Combustion Turbines Station is an electrical generation station. This facility consists of 4 emission units with potential emissions of:

| Pollutant | Abbreviation | Potential Emissions (Tons per Year) |
|---|---------------------|--|
| Particulate Matter ($\leq 2.5 \mu\text{m}$) | PM _{2.5} | 45.07 |
| Particulate Matter ($\leq 10 \mu\text{m}$) | PM ₁₀ | 45.81 |
| Particulate Matter | PM | 48.39 |
| Sulfur Dioxide | SO ₂ | 133.42 |
| Nitrogen Oxides | NO _x | 249.00 |
| Volatile Organic Compounds | VOC | 16.03 |
| Carbon Monoxide | CO | 318.66 |
| Lead | Lead | 0.04 |
| Hazardous Air Pollutants ⁽¹⁾ | HAP | 4.80 |

⁽¹⁾ May include the following: Arsenic Compounds, Benzene, 1,3-Butadiene, Chromium Compounds, Ethyl Benzene, Formaldehyde, Manganese Compounds, Naphthalene, PAH, Selenium, Toluene, and Xylenes.

3. IPL – Lime Creek Combustion Turbines Station submitted a Title V Operating Permit renewal application on June 23, 2023. 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 22.107.
4. DNR has complied with the procedures set forth in 567 IAC 22.107, 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 April 11, 2024 through May 11, 2024. During the public comment period, anyone may submit written comments on the permit. Mail signed comments to Emilie Peterson 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 Emilie Peterson 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 20-35, 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 20-35.
4. DNR is required to comply with 567 IAC Chapter 22 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 REVIEW NOTES

Name of Permitted Facility: IPL-Lime Creek Combustion Turbines
Facility Location: 24510 Orchid Avenue, Mason City, Iowa 50402
Air Quality Operating Permit Number: 98-TV-003R5
EIQ Number: 92-2687
Facility File Number: 17-01-066
Reviewer: Emilie Peterson
Date: March 8, 2024

Background

IPL-Lime Creek Combustion Turbines submitted a Title V Operating Permit renewal application June 23, 2023. The facility uses two diesel-fired turbines, both are rated at 421 MMBtu/hr. Two diesel-fired internal combustion reciprocating engines, both rated at 4.72 MMBtu/hr are also used and function as starters for the turbines. These are the only significant sources at the IPL-Lime Creek Combustion Turbines facility.

Regulatory Status

The facility is not a PSD major facility.

PTE values reported on the June 2023 Permit Renewal Application. The following Potential Emissions table reflect recalculated values, and remain acceptable.

Potential Emissions

| PM _{2.5} tons/yr | PM ₁₀ tons/yr | PM tons/yr | SO ₂ tons/yr | NO _x tons/yr | VOC tons/yr | CO tons/yr | Lead tons/yr | Total HAPs tons/yr |
|------------------------------|-----------------------------|---------------|----------------------------|----------------------------|----------------|---------------|-----------------|--------------------------|
| 45.07 | 45.81 | 48.39 | 133.42 | 249.00 | 16.03 | 318.66 | 0.04 | 4.80 |

General

1. There are not any facility operation and maintenance plans imposed upon the facility at this time.
2. There are not any agency operation and maintenance plans imposed upon the facility at this time.
3. The Title V Permit Number has been updated to 98-TV-003R5.
4. Page numbers in the Title V Permit have been updated.
5. The facility has plant-wide emission limits of 249 tons/yr for NO_x and SO₂.
6. This facility is considered an affected source under 40 CFR Part 72, 73, 75, 76, 77 and 78 definitions as units at this source are subject to acid rain emission reduction requirements or acid rain emission limitations.
7. Cross-State Air Pollution Rule (CSAPR) Requirements for this facility are included in the Title V Permit.

Emission Point Information

CT1 & CT2:

- Emission points are subject to NSPS 40 CFR 60 Subpart GG: Stationary Gas Turbines
- Emission points meet CAM plan requirements through the monitoring requirements of the Acid Rain Program

D1 & D2:

- Emission points are subject to NESHAP 40 CFR 63 Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)