

## General information

**Public comment period begins:** June 24, 2024

**Public comment period ends:** July 24, 2024

**Name and address of Permittee:**

Xcel Energy  
 414 Nicollet Mall # 414-2  
 Minneapolis, MN 55401-1927

**Facility name and location:**

Xcel Energy - Red Wing Generating Plant  
 801 5th St  
 Red Wing, MN 55066-2760  
 Goodhue County  
 T113N, R14W, Section 029

**MPCA contact person:**

Andrea Behrendt  
 Industrial Division  
 Minnesota Pollution Control Agency  
 520 Lafayette Rd  
 St Paul, MN 55155  
 Phone: 651-757-2484  
 Email: andrea.behrendt@state.mn.us

File manager phone: 651-757-2728 or 844-828-0942

A draft permit and supporting information are available for review on the MPCA Public Notices webpage at <https://www.pca.state.mn.us/get-engaged/public-comments>. Additional materials relating to the issuance of this permit are available for inspection by appointment at any MPCA office (<https://www.pca.state.mn.us/about-mPCA/contact-us>) between the hours of 8:00 a.m. and 4:30 p.m., Monday through Friday. The MPCA will mail or email a copy of the draft permit upon request. Comments, petitions, and other requests must be received at the MPCA in writing on or before the public comment period end date and U.S. Mail comments must be received by 4:30 p.m.

## Description of permitted facility

The permit action is for operation of the facility. The permit action is the reissuance of the Part 70 operating permit; therefore, the draft permit has been placed on public notice.

Xcel Energy - Red Wing Generating Plant (Xcel - Red Wing, or Facility) is a waste combustor electric power generating facility located along the Mississippi River in Red Wing, Minnesota. The Facility is rated at 25 Megawatts (MW) and consists of two boilers that primarily burn Refuse Derived Fuel (RDF). The RDF burned at this facility is processed under contract with the City of Red Wing Resource & Recovery Facility and the Ramsey/Washington Resource Recovery Facility in Newport, MN.

Energy is produced through combustion of RDF in the two traveling grate boilers installed in 1947. The units are identified in the permit as EQUIs 1 and 2. The units each have a rated capacity of 198 MMBtu/hr, which equates 18 tons of RDF per hour (at an assumed heat content of 5,500 Btu/lb). The waste combustors also burn wood and waste oil under the conditions of the permit, and natural gas which is used at start-up and is necessary to maintain proper combustion conditions.

Each boiler exhausts through separate pollution control equipment; dry lime injection for the control of acid gases and sulfur dioxide (SO<sub>2</sub>), and a fabric filter for the control of particulate matter (PM), particulate matter less than 10 microns (PM<sub>10</sub>), and particulate matter less than 2.5 microns (PM<sub>2.5</sub>). Exhaust gases from each boiler are continuously monitored for carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), opacity, and oxygen (O<sub>2</sub>). Operating parameters, including control equipment inlet temperature, lime feed rate, and steam flow rate, are also monitored continuously.

Hot water for internal use when EQUIs 1 and 2 are not in operation is provided by a natural gas-fired boiler. Ash produced in the course of waste combustion is stored in an enclosed area at the facility. The ash is transported using covered trucks to the Red Wing Ash Landfill. Other sources of PM emissions are the lime storage silos and RDF receiving building.

A summary of the Potential to Emit (PTE) in tons per year is as follows:

Pollutant	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	VOCs	CO	CO <sub>2e</sub>	Lead	Total HAP
Total Facility PTE	72.0	72.0	72.0	120	747	24.4	365	357,391	0.79	56.1

PM = Particulate Matter

PM<sub>2.5</sub> = PM, 2.5 microns and smaller

NO<sub>x</sub> = Nitrogen Oxides

CO = Carbon Monoxide

PM<sub>10</sub> = PM, 10 microns and smaller

SO<sub>2</sub> = Sulfur Dioxide

VOCs = Volatile Organic Compounds

CO<sub>2e</sub> = Carbon Dioxide Equivalents as defined in Minn. R. 7007.0100

HAP = Hazardous Air Pollutant

The Permittee is not required to submit a pollution prevention progress report pursuant to Minn. Stat. § 115D.08.

The preliminary determination to reissue this air permit is tentative.

## Procedure for public participation

As stated in Minn. R. chs. 7000 and 7001, there are three formal procedures for public participation in the MPCA's consideration of this matter. Interested persons may:

- 1) Submit written comments on the draft permit.
- 2) Petition the MPCA to hold a public informational meeting.
- 3) Petition the MPCA to hold a contested case hearing.

## Submitting written comments

Comments may be submitted:

- 1) Online at <https://mpca.commentinput.com/comment/search>; or
- 2) By U.S. postal mail to the following address:  
Andrea Behrendt  
Minnesota Pollution Control Agency  
520 Lafayette Rd  
St Paul, MN 55155

Submitted comments or petitions must state:

- 1) Your interest in the permit application or the draft permit.
- 2) The action you wish the MPCA to take, including specific references to the section of the draft permit you believe should be changed.
- 3) The reasons supporting your position, stated with sufficient specificity as to allow the MPCA to investigate the merits of the position.

## Public informational meeting

A public informational meeting is an informal meeting during which interested persons can ask questions concerning the proposed facility. MPCA staff will be present to provide information. If an interested person would like the MPCA to hold a public informational meeting, the person should include all information identified above and in addition include a statement of the reasons the person desires the MPCA to hold a public informational meeting and the issues that the person would like the agency to address at the public informational meeting.

## Contested Case Hearing

A contested case hearing is a formal proceeding before an administrative law judge empowered to advise the MPCA regarding issues of fact. As described in Minn. R. 7000.1800, persons who submit petitions for a contested case hearing must also state the issues they propose to address in a contested case hearing, the specific relief requested or resolution of the matter, and the reasons (which may be in the form of proposed findings) supporting an MPCA decision to hold a contested case hearing. Failure to comply with these rules exactly may result in a denial of the request. To the extent known, the petitioner may also submit a list of prospective witnesses to be called at a hearing, a proposed list of publications, references, or studies to be introduced at a hearing and the approximate time required for the petitioner to present the matter at a hearing. The decision whether to hold a contested case hearing will be made under Minn. R. 7000.1900.