

General information

Public comment period begins: October 8, 2020

Public comment period ends: November 9, 2020 (4:30 p.m.)

Name and address of Permittee:

Polk County Solid Waste Resource
Recovery
708 8th Street Northwest
P.O. Box 179
Fosston, MN 56542

Facility name and location:

Polk County Solid Waste Resource
Recovery
708 8th Street Northwest
Fosston, MN 56542
Polk County

MPCA contact person:

Andrea Walkush
Industrial Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St Paul, MN 55155
Phone: 651-757-2484
Email: andrea.walkush@state.mn.us

File manager phone: 651-757-2728 or
1-844-828-0942

A draft permit and supporting documentation are available for review on the MPCA Public Notices webpage at <http://www.pca.state.mn.us/publicnotices>. 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/mpca-offices>) 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 time identified above.

Description of the permitted facility

Polk County Solid Waste Resource Recovery (PCSWRR) is a solid waste incineration facility. PCSWRR consists of a materials recovery facility (MRF), two waste combustor units (EQUI 1, Incinerator 2, and EQUI 19, Incinerator 1), and an auxiliary boiler (EQUI 22). The waste combustors are allowed to burn natural gas and mixed municipal solid waste (MSW) processed at the facility to generate steam. EQUIs 1 and 19 may be operated independently. The waste combustors consist of primary and secondary combustion chambers, waste heat boilers, and economizers. The primary chambers are modular, starved-air units capable of burning 1.6 tons of mixed MSW per hour for a combined total capacity of 76.6 tons of mixed MSW per day. This equates to a heat input rate of 17.6 Million Btu/hr at an assumed heat content of 5500 Btu/lb for mixed MSW processed at the facility. EQUIs 1 and 19 also burn natural gas in auxiliary burners in the primary and secondary chambers for combustion system and pollution control equipment startup.

Each waste combustor is controlled by an electrostatic precipitator (TREAs 1 and 2) for particulate matter, particulate matter less than 10 microns (PM10), and particulate matter less than 2.5 microns (PM2.5), activated carbon absorber (TREAs 3 and 4) for volatile organic compounds (VOC), mercury, and dioxins/furans, and a sodium carbonate injection scrubber (TREAs 5 and 6) for acid gases. Exhaust gases from EQUIs 1 and 19 are vented through a common stack. Each waste combustor also has a dump stack for emergencies. Exhaust gases are continuously monitored for carbon monoxide (CO), sulfur dioxide (SO₂), opacity, and oxygen (O₂). A number of operating parameters, including ESP inlet temperature, steam flow rate, and mercury and dioxin/furan (PCDD/PCDF) control additive feed rate are also monitored continuously.

Bottom ash from the primary combustion chambers and fly ash from electrostatic precipitator control equipment are conveyed to a container located in an enclosed area of the facility. The ash is then loaded and transported by truck for disposal at the Polk County Sanitary Landfill (permit number SW-124).

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

| Pollutant | PM | PM ₁₀ | PM _{2.5} | SO ₂ | NO _x | VOCs | CO | CO _{2e} | Lead | Total HAP |
|--------------------|------|------------------|-------------------|-----------------|-----------------|------|------|------------------|------|-----------|
| Total Facility PTE | 10.6 | 10.6 | 10.6 | 28.3 | 145 | 2.11 | 18.9 | 21,943 | 0.22 | 52.5 |

PM = Particulate Matter
 PM_{2.5} = PM, 2.5 microns and smaller
 NO_x = Nitrogen Oxides
 CO = Carbon Monoxide
 HAP = Hazardous Air Pollutant

PM₁₀ = PM, 10 microns and smaller
 SO₂ = Sulfur Dioxide
 VOCs = Volatile Organic Compounds
 CO_{2e} = Carbon Dioxide Equivalents as defined in Minn. R. 7007.0100

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

To submit comments or petitions to the MPCA through the mail or email, you 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.