



# 2025 Annual CCR Fugitive Dust Control Report



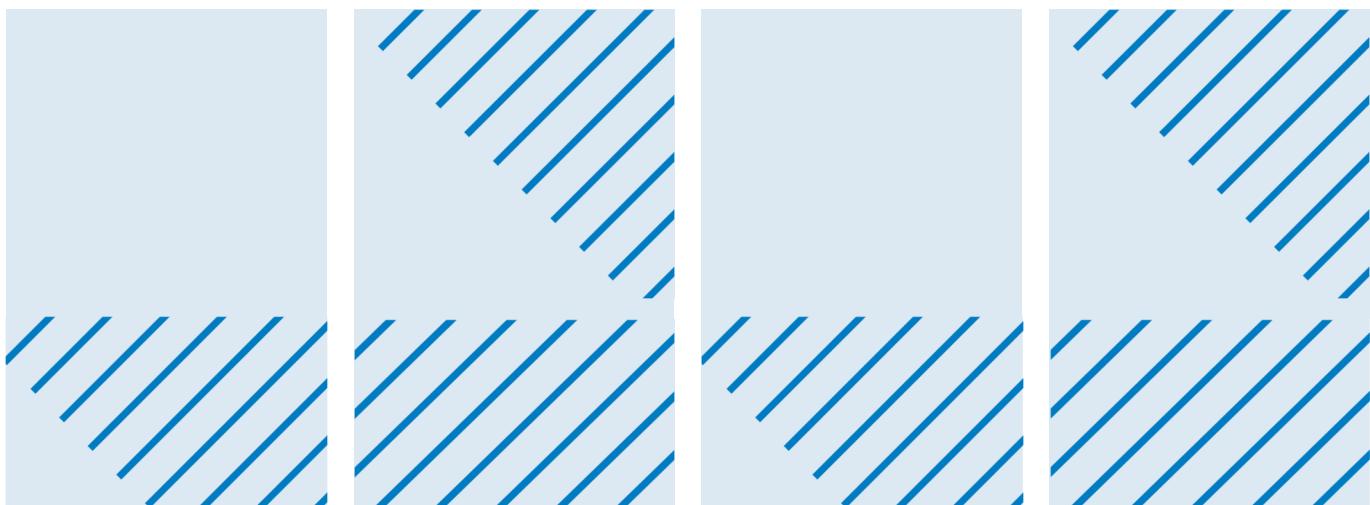
Prepared for  
Minnkota Power Cooperative  
Milton R. Young Station

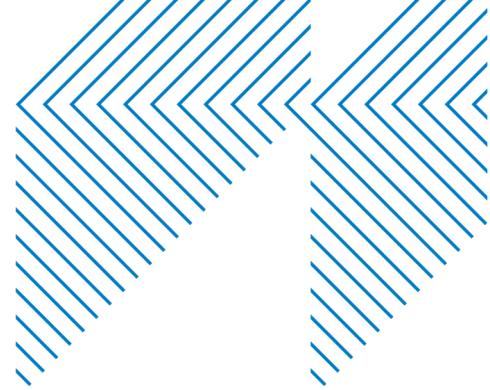
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December 2025

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# 2025 Annual CCR Fugitive Dust Control Report

December 2025

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# 1 Introduction

Minnkota Power Cooperative, Inc. (MPC) operates the Milton R. Young Station (MRY), near Center, North Dakota. MRY operates two lignite-fired cyclone boilers, resulting in production of coal combustion residuals (CCR). Cells 2, 3, 4 and 5 currently operate under North Dakota Department of Environmental Quality (NDDEQ) solid waste management facility Permit 0159.

This report has been developed to satisfy the requirements of NDAC 33.1-20-08-05.1.c, annual CCR fugitive dust control report, as they apply to Minnkota Power Cooperative's (MPC) Milton R. Young Station. Appendix A contains a copy of NDAC 33.1-20-08-05.1.c.

## 2 Summary of Activity

NDAC 33.1-20-08-05.1.c states:

*"The owner or operator of a CCR unit shall prepare an annual CCR fugitive dust control report that includes a description of the actions taken by the owner or operator to control CCR fugitive dust, a record of all citizen complaints, and a summary of any corrective measures taken."*

In 2025, MPC took the following actions to control fugitive dust:

1. Boiler slag/bottom ash was conditioned to a moisture content of approximately 10% prior to being hauled and placed in the CCR disposal unit.
2. Boiler slag/bottom ash was stored and loaded into haul trucks within an enclosed building.
3. Haul truck operators observed truck loading and ensured trucks were not overfilled to reduce the risk of spilling during hauling.
4. Fly ash was moisture-conditioned in the fly ash silos prior to loading into haul trucks.
5. Placed fly ash was encapsulated with bottom ash and other suitable wastes to minimize fly ash exposure to wind and vehicle traffic.
6. CCR hauling and other activity in the CCR disposal units was postponed during periods of high winds.
7. Haul roads were routinely watered to minimize fugitive dust emissions from vehicle traffic on the haul roads.
8. Speeds for loaded haul truck were reduced to minimize risk of CCR spills along the haul road. If a spill occurred, the spilled CCR was removed and disposed in the CCR disposal units before the end of the day.
9. Sequential partial closure has been implemented to reduce the overall open acreage of the CCR disposal units.

MPC maintains a record of all citizen complaints and subsequent corrective measures taken in response to any complaints. In 2025, MPC received zero (0) citizen complaints, and MPC therefore implemented zero (0) corrective measures.

### 3 Recordkeeping & Reporting

NDAC 33.1-20-08-05.1.c states, *“The annual CCR fugitive dust control report shall be included with the facility's annual report required by subsection 4 of section 33.1-20-04.1-04. For purposes of this subdivision, the owner or operator has completed the annual CCR fugitive dust control report when the annual report has been submitted to the department and placed in the facility's operating record.”* MPC will include this report with the facility's annual report required by subsection 4 of section 33.1-20-04.1-04.

MPC will maintain a copy of the most recent annual CCR fugitive dust control report in the facility's operating record *“for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, record, or study,”* in accordance NDAC 33.1-20-08-08.1.b.



## **Appendix A**

**NDAC 33.1-20-08-05.1**

completed an assessment if the relevant assessment has been approved by the department and placed in the facility's operating record.

- (4) Failure to document minimum safety factors during the initial assessment for new CCR surface impoundments or lateral expansions of a CCR surface impoundment. Until an owner or operator of a CCR unit documents that the calculated factors of safety achieve the minimum safety factors specified in paragraph 1 of subdivision e, the owner or operator is prohibited from placing CCR in such unit.
- (5) Closure of the CCR unit. An owner or operator of a CCR unit who either fails to complete a timely safety factor assessment or fails to demonstrate minimum safety factors as required by this section is subject to the closure requirements of subdivision b of subsection 2 of section 33.1-20-08-07.

**History:** Effective July 1, 2020; amended effective October 1, 2024.

**General Authority:** NDCC 23.1-08-03

**Law Implemented:** NDCC 23.1-08-03, 23.1-08-04

### **33.1-20-08-05. Operating criteria.**

1. Air criteria.
  - a. The owner or operator of a CCR landfill, CCR surface impoundment, or any lateral expansion of a CCR unit shall adopt measures that will effectively minimize CCR from becoming airborne at the facility, including CCR fugitive dust originating from CCR units, roads, and other CCR management and material handling activities.
  - b. The CCR fugitive dust control plan. The owner or operator of the CCR unit shall prepare and operate in accordance with a CCR fugitive dust control plan as specified in paragraphs 1 through 6. This requirement applies in addition to, not in place of, any applicable standards under the Occupational Safety and Health Act.
    - (1) The CCR fugitive dust control plan shall identify and describe the CCR fugitive dust control measures the owner or operator will use to minimize CCR from becoming airborne at the facility. The owner or operator shall select, and include in the CCR fugitive dust control plan, the CCR fugitive dust control measures that are most appropriate for site conditions, along with an explanation of how the measures selected are applicable and appropriate for site conditions. Examples of control measures that may be appropriate include: Locating CCR inside an enclosure or partial enclosure; operating a water spray or fogging system; reducing fall distances at material drop points; using wind barriers, compaction, or vegetative covers; establishing and enforcing reduced vehicle speed limits; paving and sweeping roads; covering trucks transporting CCR; reducing or halting operations during high wind events; or applying a daily cover.
    - (2) If the owner or operator operates a CCR landfill or any lateral expansion of a CCR landfill, the CCR fugitive dust control plan must include procedures to emplace CCR as conditioned CCR. Conditioned CCR means wetting CCR with water to a moisture content that will prevent wind dispersal but will not result in free liquids. In lieu of water, CCR conditioning may be accomplished with an appropriate chemical dust suppression agent.
    - (3) The CCR fugitive dust control plan must include procedures to log citizen complaints received by the owner or operator involving CCR fugitive dust events at the facility.

- (4) The CCR fugitive dust control plan must include a description of the procedures the owner or operator will follow to periodically assess the effectiveness of the control plan.
- (5) The owner or operator of an existing CCR unit shall include an initial CCR fugitive dust control plan for the facility with the application for a permit. For new CCR units or lateral expansions of CCR units, the fugitive dust control plan must be included with the application for a new permit or permit modification. The owner or operator has completed the initial CCR fugitive dust control plan if the plan has been approved by the department and placed in the facility's operating record.
- (6) Amendment of the plan. The owner or operator of a CCR unit subject to the requirements of this section may amend the written CCR fugitive dust control plan at any time with approval by the department, provided the revised plan is placed in the facility's operating record. The owner or operator shall amend the written plan whenever there is a change in conditions that would substantially affect the written plan in effect, such as the construction and operation of a new CCR unit.

c. Annual CCR fugitive dust control report. The owner or operator of a CCR unit shall prepare an annual CCR fugitive dust control report that includes a description of the actions taken by the owner or operator to control CCR fugitive dust, a record of all citizen complaints, and a summary of any corrective measures taken. The annual CCR fugitive dust control report must be included with the facility's annual report required by subsection 4 of section 33.1-20-04.1-04. For purposes of this subdivision, the owner or operator has completed the annual CCR fugitive dust control report if the annual report has been submitted to the department and placed in the facility's operating record.

2. Run-on and runoff controls for CCR landfills.
  - a. The owner or operator of an existing or new CCR landfill or any lateral expansion of a CCR landfill shall design, construct, operate, and maintain:
    - (1) A run-on control system to prevent flow onto the active portion of the CCR unit during the peak discharge from a twenty-four-hour, twenty-five-year storm; and
    - (2) A run-off control system from the active portion of the CCR unit to collect and control at least the water volume resulting from a twenty-four-hour, twenty-five-year storm.
  - b. Run-off from the active portion of the CCR unit must be handled in accordance with the surface water requirements in chapters 33.1-16-01 and 33.1-16-02.1.
  - c. Run-on and run-off control system plan:
    - (1) Content of the plan. The owner or operator shall prepare initial and periodic run-on and run-off control system plans for the CCR unit according to the time frames specified in this subsection. These plans must document how the run-on and run-off control systems have been designed and constructed to meet the applicable requirements of this subsection. Each plan must be supported by appropriate engineering calculations. The owner or operator has completed the initial run-on and run-off control system plan if the plan has been approved by the department and placed in the facility's operating record.
    - (2) Amendment of the plan. The owner or operator may amend the written run-on and run-off control system plan at any time provided the revised plan is placed in the facility's operating record. The owner or operator shall amend the written run-on and run-off control system plan whenever there is a change in conditions that would substantially affect the written plan in effect.