



January 16, 2017

Xcel Energy, Inc.
Sherburne County Generating Station
13999 Industrial Blvd.
Becker, MN, 55308

Re: 2016 Annual Inspection of Unit 3 Landfill

The Unit 3 Landfill (landfill) inspection was conducted on November 8th, 2016 by Daniel J. Riggs, a professional engineer licensed in the State of Minnesota. This was the second inspection done in accordance with the EPA's published Coal Combustion Residual (CCR) Rules under section 257.84. Inspections prior to 2015 were conducted by the Minnesota Pollution Control Agency (MPCA).

The following items were evaluated as a part of the Section 257.84 Inspection:

i) Any changes in geometry of the structure since the previous annual inspection

Annual topographic surveys have been conducted on the landfill since initial construction. During that time, no changes in landfill geometry or embankment alignment have been observed.

ii) The approximate volume of CCR contained in the unit at the time of the inspection

There was approximately 6.9 Million Cubic Yards of CCR in the landfill at the time of inspection.

iii) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit

The landfill was inspected for structural weakness by walking a traverse at the base and top of the embankment. There were no signs that structural weakness had previously or is presently occurring on the landfill.

The active area sump panel controls and riser access panels were opened to verify that the leachate management system is functioning properly. There are no conditions disrupting the operation or safety of the CCR unit.

iv) Any other changes(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection

The CCR placed in the landfill is a lime-stabilized, Type C fly-ash with pozzolanic properties. This creates a structurally stable fill that is not subject to settlement or shifting once placed and compacted.

I have reviewed the CCR Unit Design, Construction information and weekly/monthly inspections performed by qualified personnel and concur with their conclusions.

Sincerely,
Daniel J. Riggs, PE

A handwritten signature in black ink, appearing to read "Dan Riggs", with a stylized flourish at the end.

License No. 49559
Senior Engineer
Carlson McCain, Inc.



FIGURE 1
UNIT 3 LANDFILL 2016
ANNUAL INSPECTION
PHOTO LOCATIONS

Unit 3 Landfill Annual Inspection – November 2016



Photo 1	Open portion of landfill, looking northwest



Photo 2	Final cover along east side of landfill. Leachate run-off containment flap can be seen in the foreground. Looking north

Unit 3 Landfill Annual Inspection – November 2016



Photo 3	Stormwater control system inlet along east side of final cover, looking east.



Photo 4	Run-on/run-off containment berm along south side of open area
10/19/2015	

Unit 3 Landfill Annual Inspection – November 2016



Photo 5	CCR Unit identification marked placed in accordance with Section 257.73



Photo 6	Exterior of north embankment, looking southwest

Unit 3 Landfill Annual Inspection – November 2016



Photo 7	Run-on/run-off containment berm along west side of landfill, looking south
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Photo 8	Access road on top of north embankment, looking east
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Unit 3 Landfill Annual Inspection – November 2016



Photo 9	Display screen on properly function Pump No. 1
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Photo 10	Display screen on properly function Pump No. 2
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