



Golden Valley Electric Association

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## **Annual CCR Landfill Inspection Coal Combustion Residual Rule Compliance**

Facility  
Healy Power Plant  
2.5 Mile Healy Spur Road  
Healy, Alaska

January 2016  
(Update October 2016)

## 1.0 CERTIFICATION AND REVISION LOG

I hereby certify, as a Professional Engineer in the State of Alaska, that the information in the document was assembled by me or those under my direct supervision and that to the best of my knowledge and belief, the information is true, complete, and accurate.

  
Signature

11/16/14  
Date

Naomi J. Morton Knight, P.E.



### Revision Log

Issue No.	Date	Description	Prepared By
1	January 2016	Initial CCR Landfill Inspection Report	GVEA
2	October 2016	Updates for Format	GVEA

## 2.0 Introduction

On April 17, 2015 the final coal Combustion Residual Rule (CCR Rule) was issued. The CCR rule regulates disposal of coal combustion residual materials generated at coal-fired power plants as solid waste under subtitle D of the Resource Conservation and Recovery Act (RCRA).

Healy Power Plant is an electric power generating facility. It is located in a rural setting on approximately 65 acres of land along the eastern bank of the Nenana River where the Healy Spur Road crosses the Nenana River in Healy, Alaska (Latitude: 63° 51' 30" Longitude: 148° 56' 45"; SW ¼ SW ¼ Section 21, T 12S, R 7W, Fairbanks Meridian). The main access road to Healy Power Plant is approximately 550 feet east from the Nenana River along the Healy Spur Road (Figure 1). Healy Power Plant is located in Healy Creek-Nenana River drainage basin, approximately 0.5 mile north from the confluence of the Nenana River and Healy Creek.

The existing coal ash handling system for Unit 1 consists of a primary settling pond (Ash Pond), a Recirculating Pond, an Emergency Overflow Pond, and an Ash Drying Area. The Ash Pond, the Recirculating Pond, and the Emergency Overflow Pond are collectively referred to as the ash settling ponds. The CCR landfill subject to this report consists of the Ash Drying Area and a dewatering trench and must have an annual inspection performed per 40 CFR Part 257.84.

### 3.0 Annual Inspection Report

The annual inspection and accompanying report is performed to comply with 40 CFR 257.84(b), *Annual inspections by a qualified professional engineer* as outlined below.

#### **§257.84 Inspection requirements for CCR landfills.**

(b) *Annual inspections by a qualified professional engineer.*

- (1) Existing and new CCR landfills and any lateral expansion of a CCR landfill must be inspected on a periodic basis by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards. The inspection must, at a minimum, include:
  - (i) A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record (*e.g.*, the results of inspections by a qualified person, and results of previous annual inspections); and
  - (ii) A visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit.
- (2) *Inspection report.* The qualified professional engineer must prepare a report following each inspection that addresses the following:
  - (i) Any changes in geometry of the structure since the previous annual inspection;
  - (ii) The approximate volume of CCR contained in the unit at the time of the 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; and
  - (iv) Any other change(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection.

The CCR landfill was inspected on November 12, 2015 by Naomi J. Morton Knight of GVEA and a review of records and weekly inspection reports prepared by qualified personnel was conducted with the following results.

**§257.84(b)(2)(i) Changes in Geometry.** This inspection is the first annual inspection, so there are no previous conditions documented with which to compare the geometry.

**§257.84(b)(2)(ii) Approximate Volume of CCR Material.** The footprint of the drying area and the dewatering trench at the time of inspection covered approximately 1.2 acres and contained approximately 11,500 cy of CCR Material.

**§257.84(b)(2)(iii) Structural Integrity.** No structural weaknesses were visible in or around the CCR landfill unit.

**§257.84(b)(2)(iv) Other Changes.** This inspection was the first annual inspection of the CCR landfill unit. There are no previous inspections with which to compare conditions, however there were no observed issues that would indicate problems with stability or operation.

## 4.0 Summary

This inspection was the first annual inspection of this CCR landfill unit as required by 40 CFR Part 257.84. At the time of the inspection the landfill contained an estimated 11,500 cy of CCR material and showed no indication of malfunction or weakness. There were no other conditions that would interfere with the landfill's safe operation.