

Coal Combustion Residual Surface Impoundment Post-Closure Plan

**Basin Electric Power Cooperative
Laramie River Station**

October 2016

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Purpose

The purpose of this document is to demonstrate compliance with 40 CFR §257.104 (Post-closure care requirements) which requires the owner or operator of a Coal Combustion Residual (CCR) unit to prepare a written post-closure care plan that describes among other things, post-closure maintenance and monitoring activities, contact information for the CCR facility during the post-closure care period, and the planned uses of the closed CCR unit during the post-closure period.

Introduction

Laramie River Station (LRS) is owned by Missouri Basin Power Project (MBPP) and operated by Basin Electric Power Cooperative (Basin Electric). LRS consists of three 570 megawatt (MW) units located approximately five miles northeast of Wheatland in Platte County, Wyoming. CCR Surface Impoundments (CCR units) at LRS include Bottom Ash Ponds 1, 2, and 3, located west of the plant, and the East and West Emergency Holding Ponds, located north of the plant.

Bottom ash and boiler slag are sluiced to Bottom Ash Pond 3. Water from Bottom Ash Pond 3 is then decanted into Bottom Ash Ponds 1 and 2. Flue gas emission control residuals and water treatment plant spent lime slurry are sluiced into the West Emergency Holding Pond. Water from the West Emergency Holding Pond is then decanted into the East Emergency Holding Pond.

Inspection, Maintenance and Monitoring Activities

Following final closure of the CCR units, post-closure inspection, maintenance and monitoring activities will be conducted for a period of 30 years in accordance with the requirements set forth in 40 CFR §257.104. Inspections of the integrity and function of the final cover system will be carried out at least semi-annually, typically coinciding with semi-annual groundwater monitoring events (discussed below). Additional inspections may be conducted following major storms or other significant events potentially affecting the integrity of the final cover system. Inspections will focus on the overall condition of the final cover, including vegetation, erosion, drainage features, and other site infrastructure as appropriate. Any deficiencies identified

during the inspections will be corrected as soon as practicable. Routine post-closure maintenance activities will be completed as needed. These routine activities include, but are not limited to, mowing, noxious weed control, and maintaining access control.

The groundwater monitoring system will be operated in accordance with 40 CFR §257.90 through 257.98, including semi-annual sampling and analysis for Appendix III and/or Appendix IV parameters as appropriate. Sampling events would typically occur during spring and fall each year. The spring/fall sampling schedule coincides with the beginning and end of the growing season, conveniently linking groundwater sampling to the semi-annual visual inspection of cover system vegetation.

Post-closure Care Contact Information

The CCR unit is owned and operated by Basin Electric Power Cooperative. The facility contact during the post-closure care period is:

Environmental Director
Basin Electric Power Cooperative
1717 East Interstate Avenue
Bismarck, ND 58503

Phone number: 701.223.0441

Post-closure Property Use

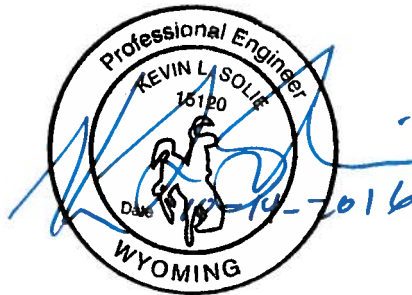
The CCR units will be closed with relatively gentle slopes (15% or less) and seeded with shallow-rooted native vegetation, two important factors that help minimize the need for future maintenance. The closed surface impoundments will not be used for cultivated crops, heavy grazing or any other use which might disturb the protective vegetative and soil cover. In addition, post-closure property use will not include activities or developments that could be detrimental to surface water management features, groundwater monitoring systems, or other facility infrastructure.

Recordkeeping and Reporting

A copy of this document will be placed into the facility's operating record in accordance with 40 CFR §257.105 (Recordkeeping Requirements) and will be posted to Basin Electric Power Cooperative's CCR Web site in accordance with 40 CFR §257.107 (Publicly accessible internet site requirements). Notification will be sent to the relevant State Director in accordance with 40 CFR §257.106 (Notification Requirements).

Certification Statement

I certify that the initial post-closure care plan meets the requirements of 40 CFR §257.104 as specified in the *Standards of Coal Combustion Residuals in Landfills and Impoundments*.



Kevin L. Solie, Wyoming PE-15120
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