

October 5, 2018

AECOM Project No.
60587593

Basin Electric Power Cooperative
294 County Road 15
Beulah, North Dakota 58523

Engineer's Certification of Unstable Areas Demonstration, Existing CCR Landfill, EPA Final CCR Rule, Antelope Valley Station, Beulah, North Dakota

1. Purpose

The purpose of this document is to certify that the Unstable Areas Demonstration for the Basin Electric Power Cooperative (BEPC) Antelope Valley Station existing CCR Landfill is in compliance with the Unstable Areas demonstration specified in the Final CCR Rule at 40 CFR §257.64. Pursuant to § 257.64(d)(1), the owner or operator of an existing CCR landfill must complete the unstable areas location demonstration no later than October 17, 2018.

2. Background

According to 40 CFR 257.64(a) of the EPA Final CCR Rule, any existing or new CCR landfills, and new and existing CCR surface impoundments, and all lateral expansions of CCR units must not be located in unstable areas zones unless the owner or operator demonstrates that all structural components including liners, leachate collection and removal systems, and surface water control systems, are designed to resist movements associated with the unstable area.

3. Summary of Findings

Based on review of historical documents, geological data, and geotechnical exploration reports, AECOM has concluded that BEPC Antelope Valley Station existing landfill is not located in a region with risk of subsidence or excessive differential settlement, and has determined that the existing Landfill of the BEPC Antelope Valley Station is not in an unstable area and meets the requirements of the EPA Final CCR Rule 40 CFR §257.64.

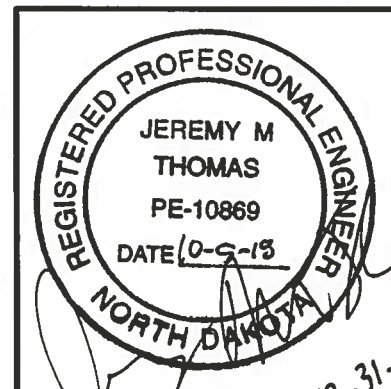
4. Certification

I, Jeremy M. Thomas, being a Registered Professional Engineer in good standing in the State of North Dakota, do hereby certify, to the best of my knowledge, information, and belief that the information contained in this certification has been prepared in accordance with the accepted practice of engineering and that the information contained herein is accurate as of the date of my signature below. I certify that the Unstable Area Demonstration for CCR, dated 10/18/2018, for the above-referenced CCR Unit meets the unstable areas location requirements of 40 CFR § 257.64(a), as recognized and generally accepted good engineering practices have been incorporated into the design of the CCR Unit to ensure that the integrity of the structural components of the Unit will not be disrupted..

Jeremy M. Thomas
Printed Name

October 5, 2018
Date

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