

October 12, 2018

AECOM Project No.
60587593

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

Engineer's Certification of Fault Areas Demonstration, Existing Bottom Ash Ponds, EPA Final CCR Rule, Laramie River Station, Wheatland, Wyoming

1. Purpose

The purpose of this document is to certify that the Fault Area Demonstration for the BEPC Laramie River Station existing Bottom Ash Ponds is in compliance with the Fault location requirements specified in the Final CCR Rule at 40 CFR § 257.62. Presented below is the project background, summary of findings, limitations and certification.

2. Background

During active fault movement, earth displacement where the ground may be bent or warped typically occurs within a zone spanning 200 feet from the fault line. In accordance with 40 CFR § 257.62(a), all new CCR landfills, new and existing CCR impoundments, and all lateral expansions must not be located within 60 meters (200 feet) of the outermost danger zone created by faults active during the Holocene Period unless the unit meets certain requirements. The Holocene Period is defined by any geologic event occurring within the past 11,700 years; the time span indicating that a fault is active.

3. Summary of Findings

Based on review of publicly available documents, geological data, and geotechnical exploration reports, AECOM has concluded that fault lines in relation to the existing Bottom Ash Ponds have not been active during the Holocene Period, and are not within the specified 200 foot fault damage zone. AECOM has determined that the existing Bottom Ash Ponds at BEPC Laramie River Station meets the fault area requirements of the EPA Final CCR Rule 40 CFR § 257.62, and that there are no reasonable expectations that faults will disrupt the integrity of the existing Bottom Ash Ponds due to fault movement.

4. Certification

I, Jeremy Thomas, being a Registered Professional Engineer in good standing in the State of Wyoming, 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 further certify, for the above-referenced CCR Unit, that the Fault Area Demonstration for CCR dated October 12, 2018 meets the requirements of 40 CFR § 257.62(a).

Jeremy M. Thomas
Printed Name

October 12, 2018
Date

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