



HALEY & ALDRICH, INC.
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MEMORANDUM

16 April 2020
File No. 129342-028

SUBJECT: Location Restriction Demonstration - 40 CFR §257.62 Fault Areas
New Madrid Power Plant
Inactive Lined Pond
New Madrid, MO

Associated Electric Cooperative, Inc. (AECI) owns and operates the coal-fired New Madrid Power Plant (NMPP, Plant) located near New Madrid, Missouri. The Lined Pond (Unit) is an inactive coal combustion residuals (CCR) surface impoundment at the Plant. This demonstration addresses the requirements of 40 CFR §257.62 *Fault Areas* of the U.S. Environmental Protection Agency's (EPA's) Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities, 40 CFR Part 257 rule (CCR Rule), effective 19 October 2015, including subsequent revisions, for the Unit.

§257.62(a): New CCR landfills, existing and new CCR surface impoundments, and all lateral expansions of CCR units must not be located within 60 meters (200 feet) of the outermost damage zone of a fault that has had displacement in Holocene time unless the owner or operator demonstrates by the dates specified in paragraph (c) of this section that an alternative setback distance of less than 60 meters (200 feet) will prevent damage to the structural integrity of the CCR unit.

A review of available data from the U.S. Geological Survey (USGS), the Missouri Department of Natural Resources (MDNR), other available information, and field reconnaissance was completed for this demonstration. The USGS database indicates the nearest Quaternary fault is the North Reelfoot fault, located approximately 3 miles northeast of the Unit. MDNR has also confirmed that there are no known surface ruptures or deformations directly in the vicinity of the Unit. Based on the available published geologic data and information reviewed including field reconnaissance, there are no known active faults or fault damage zones that have had displacement in Holocene time reported or indicated within 60 meters (200 feet) of the Unit.



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§257.62(b): The owner or operator of the CCR unit must obtain a certification from a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority stating that the demonstration meets the requirements of paragraph (a) of this section.

I, Steven F. Putrich, being a Registered Professional Engineer in good standing in the State of Missouri, 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. I certify, for the above-referenced CCR Unit, that the demonstration that the CCR Unit is not located within 60 meters (200 feet) of the outermost damage zone of a fault that has had a displacement in Holocene time meets the requirements of 40 CFR §257.62(a).

Signed: 
Consulting Engineer

Print Name: Steven F. Putrich
Missouri License No.: 2014035813
Title: Project Principal
Company: Haley & Aldrich, Inc.

Professional Engineer's Seal:

