



HALEY & ALDRICH, INC.  
One Arizona Center  
400 E. Van Buren St., Suite 545  
Phoenix, AZ 85004  
602.760.2450

5 March 2021  
File No. 129342-029

Associated Electric Cooperative, Inc.  
2814 South Golden Avenue  
P.O. Box 754  
Springfield, Missouri 65801-0754

Attention: Jenny Jones – Senior Environmental Analyst

Subject: Assessment Monitoring Program August 2020 Sampling Event  
Statistically Significant Level Notification  
New Madrid Power Plant – Pond 003

Dear Ms. Jones:

Associated Electric Cooperative, Inc. (AECI) has implemented the U.S. Environmental Protection Agency Federal Coal Combustion Residuals (CCR) Rule (Code of Federal Regulations Title 40 [40 CFR] §§ 257 and 261) effective 19 October 2015, along with subsequent revisions, for the New Madrid Power Plant in New Madrid, Missouri. AECI provided Haley & Aldrich, Inc. with groundwater monitoring data collected from the Pond 003 groundwater monitoring system that meets the requirements of 40 CFR §§ 257.91 and 257.93. This memorandum documents the results of statistical tests conducted to determine if Appendix IV groundwater monitoring constituents detected in wells downgradient of Pond 003 are present at a statistically significant level (SSL) above groundwater protection standards (GWPS) consistent with the requirements in 40 CFR § 257.95.

Results of the statistical analyses completed on 18 January 2021 of the August 2020 assessment monitoring sampling event data for each analyte/well combination indicate an SSL above GWPS at Pond 003. Consistent with statistical analyses completed for previous assessment monitoring events, molybdenum was indicated as an SSL at monitoring wells MW-7, MW-8, MS-9, P-2, P-3, and P-5 for the August 2020 event.

Sincerely yours,  
HALEY & ALDRICH, INC.

A handwritten signature in blue ink, appearing to read "Steve Putrich".

Steve Putrich, P.E.  
Project Principal

A handwritten signature in blue ink, appearing to read "Mark Nicholls".

Mark Nicholls, P.G.  
Lead Hydrogeologist