



HALEY & ALDRICH, INC.  
6500 Rockside Road  
Suite 200  
Cleveland, OH 44131  
216.739.0555

## MEMORANDUM

3 November 2021  
File No. 0129530

TO: Ameren Missouri  
Michael Wagstaff, P.E.

FROM: Haley & Aldrich, Inc.  
Steven F. Putrich, P.E.  
CCR Engineering Manager

SUBJECT: Closure Statement  
RCPA CCR Surface Impoundment  
Rush Island Energy Center  
100 Big Hollow Road  
Jefferson County, Missouri

As engineer of record for the design of the Ameren Missouri Rush Island Energy Center (RIEC) CCR Surface Impoundment (RCPA) closure located at 100 Big Hollow Road, Jefferson County Missouri, Haley & Aldrich, Inc. (Haley & Aldrich) is providing this closure statement. Based upon our professional opinion, the RCPA closure was completed in substantial conformance with the Haley & Aldrich closure design plans and specifications (Phase 1 and Phase 3 dated 20 May 2019, and 26 March 2020, respectively), except as noted in the as-built drawing sets (Phase 1 and 3 dated 22 September 2021 and 1 October 2021 respectively) ("Design Plans and Specifications"), and except as further detailed herein.

Ameren contracted the closure construction in two phases - Phase 1 and Phase 3, and reserved Phase 2 for the purchase of the ClosureTurf final cover product<sup>1</sup>. It should be noted that Haley & Aldrich was not contracted to and did not observe the construction of the subject closure or the dewatering, moving, grading, subgrade preparation, or compaction activities. We do, however, understand that Ameren engaged Geotechnology, LLC ("Geotechnology") to perform the construction monitoring and the required Construction Quality Assurance ("CQA") activities included in the project CQA plan prepared by Haley & Aldrich dated December 2019. Haley & Aldrich's Closure Statement is therefore reliant on the professional opinion of Geotechnology, as included in Geotechnology's CQA Report dated

---

<sup>1</sup> Phase 1 construction included alterations to the dam including the abandonment of the existing culverts, removal of the existing principal spillway inlet riser structure, abandoning the existing principal spillway outlet pipe, regrading of the existing ash within the impoundment so as to allow collected stormwater to discharge via new single or dual gravity outlet pipes at nine (9) locations around the perimeter of the impoundment, grading of a new access road onto the embankment, and incidental channel and slope erosion protection. Phase 3 construction consisted primarily of installation of a low-permeability Closure-Turf cap above the regraded ash and stormwater pipe outlet headwalls and flap gates at Outlets 4 & 5.

17 August 2021. In addition, we understand that Geotechnology's CQA Report accurately reflects the as-built conditions and the means and methods used by the contractor to achieve conformance with the Haley & Aldrich Design Plans and Specifications. In addition, any information related to the relationship between Mississippi River and RCPA water levels, associated storm events, and flood elevations used in support of the final cover design (i.e., uplift potential and ballasting, drainage, etc.) were generated by Ameren's hydrogeologic and engineering consultant Golder - Member of WSP, and Haley & Aldrich's statements herein regarding the cover system are reliant on that information in support of our closure cover design and as-built drawing sets.



Steven F. Putrich, PE



P.E. Seal License Number: PE2014035813