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## **MEMORANDUM**

28 May 2020 File No. 129638-007

TO: Associated Electric Cooperative, Inc.

Jenny Jones - Senior Environmental Analyst

FROM: Haley & Aldrich, Inc.

Jason M. Pokorny, P.E. (OH) -Senior Project Manager

Steve F. Putrich, P.E. – Principal

Consultant

SUBJECT: Thomas Hill Energy Center

Cell 003 CCR Surface Impoundment

Annual Inspection and Stability Assessments Documentation of Corrective Measures

## Mrs. Jones:

Haley & Aldrich, Inc. (Haley & Aldrich) has prepared this documentation on behalf of Associated Electric Cooperative, Inc. (AECI) related to deficiencies identified during annual impoundment inspections or periodic stability assessments (SSA) for the coal combustion residuals (CCR) impoundment referred to as Cell 003 at the Thomas Hill Energy Center located in Clifton Hill, Missouri. The attached table provides a summary of the completed inspection or SSA, the identified deficiencies, and the corrective measures completed by AECI to address the identified deficiency. This documentation has been completed in accordance with the US Environmental Protection Agency's (EPA's) Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities, 40 CFR Part 257 effective 19 October 2015 including subsequent revisions, specifically related to §257.73(d) and §257.83(b).

Haley & Aldrich has provided a summary of the remedies based on correspondence with AECI regarding the noted deficiencies in the attached Table I.

## $\label{eq:continuous} \underline{\text{Table I}}$ Cell 003 - CCR Rule Inspections and SSA Deficiency Remedies

	CCR Rule		
Document	Reference	Deficiency	Remedy
2019 Annual Inspection	§257.83	Cell 3 currently has no instrumentation for determining	AECI has ordered depth gages and will be installed in
		water elevation.	2020.
		The emergency spillway elevation has been slightly	
		increased since the last annual inspection. We	
		recommend removing the recently placed aggregate	AECI has removed some aggregate and recompacted
		base such that the emergency spillway maximum	the remaining aggregate to achieve revised grades.
		elevation is a minimum of two feet lower than the dam's	
		crest elevation.	
		A few burrows were observed along the perimeter of	AECI THEC works with U.S. Fish and Wildlife Service to relocate muskrats offsite.
		Cell 3 and a muskrat was observed swimming in Cell 3	
		during our annual inspection.	
2018 Annual Inspection	§257.83	Cell 3 currently has no instrumentation for determining	AECI has ordered depth gages and will be installed in
		water elevation.	2020.
2017 Annual Inspection	§257.83	Cell 3 currently has no instrumentation for determining	AECI has ordered depth gages and will be installed in
		water elevation.	2020.
2016 Structural Stability Assessment	§257.73	The vegetation on the interior and exterior slopes of Cell	As part of the AECI THEC's operation and
			·
		003 was generally 6 to 12 inches in height.	mowing and other mitigating measures on an as-
		oos was generally o to 12 menes in neight.	needed basis to limit vegetation and woody growth.
			Thecaea basis to infine vegetation and woody growth.
		Ruts on crest of the north embankment.	As part of the AECI THEC's operation and
			maintenance plan, eroded roadway areas are filled
			and compacted as needed.
		Confirmation of Cell 003 structural stability following a	AECI will consider this evaluation in the future if
		sudden drawdown of Cell 004.	determined necessary to complete.

1 of 1 Updated: 05/28/2020