



Phil Morris
Electric Energy, Inc.
Luminant
1500 Eastport Plaza Drive
Collinsville, IL 62234

June 21, 2021

Mr. Darin LeCrone, P.E.
Manager, Industrial Unit
Bureau of Water, Division of Water Pollution Control, Permits Section
Illinois Environmental Protection Agency
1021 North Grand Avenue, East
Springfield, IL 62794-9276

Re: Cost Estimate for Closure, Post-Closure, and Corrective Action at the Joppa Power Plant
East Ash Pond 2 (W1270100004-02)

Dear Mr. LeCrone:

Pursuant to 35 I.A.C. 845.930(a), Electric Energy, Inc. submits this written cost estimate for (1) closure and post-closure care and (2) the preliminary corrective action costs for the East Ash Pond located at the Joppa Power Plant. Electric Energy, Inc. is providing the "total cost for closure and post-closure care" under Part 845 along with a preliminary corrective cost estimate "that is equal to 25% of the costs" for closure and post-closure care. 35 I.A.C. 845.930(b), (c).

Taking into account the requirements of 35 I.A.C. 845.930(b)—including the use of "prevailing wages" (845.930(b)(3)); the exclusion of any zero costs for CCR that might have an economic value (845.930(b)(5)); and the exclusion of any salvage value of the facility, structures, or equipment (845.930(b)(4))—Electric Energy, Inc. estimates that the closure and post-closure care cost is \$25,447,522 for the East Ash Pond. The requirements of Part 845 result in the cost estimate overstating the actual expected future costs.

In accordance with 35 I.A.C. 845.930(c)(1), Electric Energy, Inc.'s preliminary corrective action cost estimate for the East Ash Pond is \$6,361,880.

The closure and post-closure estimate was derived based on the construction process and items detailed below.

A professional engineering firm will be retained to complete the East Ash Pond closure design and preparation of the construction bid documents. A contractor will be selected to complete the closure and final cover construction. Construction management ("CM") and construction quality assurance ("CQA") will be performed during East Ash Pond closure by qualified CM and CQA companies/engineering firms.

The East Ash Pond will be dewatered as necessary to facilitate closure by leaving the coal combustion residuals ("CCR") in place. Water removed from the East Ash Pond will be discharged through the NPDES-permitted outfall. Dewatering will be performed to the extent needed to allow CCR regrading activities to be completed to sufficiently stabilize the CCR and to provide a stable subgrade base for the final cover system.

The CCR in the East Ash Pond will be shaped and graded to the design subgrade limits and elevations. The soils for the final cover system will be placed directly on top of the subgrade layer to achieve final cover design grades.

The final cover system construction will be initiated upon the mobilization of the construction contractor to the East Ash Pond. The existing East Ash Pond and necessary surrounding areas will be cleared of vegetation and structures (removal or abandonment) to allow for the construction of the CCR subgrade.

In accordance with 40 C.F.R. Part 257 and the process in 35 I.A.C. 845.750(c) that allows IEPA to approve an alternative cover, the final cover will include, at a minimum, 18 inches of compacted earthen material with a permeability less than or equal to the permeability of the natural subsoils present in the East Ash Pond or no greater than 1×10^{-7} cm/sec, whichever is less and 6 inches of soil capable of sustaining vegetative growth.

The final cover surface will be seeded and vegetated. The final cover system will include necessary storm water management system components to promote positive drainage and to minimize erosion. Access roads will be constructed as part of the final cover system to provide access to the closed East Ash Pond. Upon completion of the East Ash Pond closure construction, the contractor will demobilize from the project site.

Post-closure care for the East Ash Pond will be performed for the duration of the specified post-closure care timeframe. Groundwater monitoring will be performed at the required frequency, and the groundwater monitoring system will be inspected and maintained on a routine basis. Throughout the post-closure care period, periodic visual observations of the final cover system and stormwater management system will be performed. If repairs are required, the repair activities may include, but are not limited to, replacing and compacting soil cover, repairing eroded drainage channels, filling in depressions with soil, regrading, and reseeding repaired and existing vegetated areas as necessary.

The scope of any groundwater corrective action is not known at this time, and therefore the preliminary corrective action cost estimate is based on 25% of the closure and post-closure care cost.

If you have any questions regarding this submittal, please contact Phil Morris at 618-343-7794 or phil.morris@vistracorp.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "Phil Morris".

Phil Morris
Senior Environmental Director