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File No. 129420

TO: Southern Indiana Gas and Electric Company

FROM: Haley & Aldrich, Inc.

SUBJECT: Semi-Annual Remedy Selection Progress Report Pursuant to 40 CFR §257.97(a)  
F.B. Culley Generating Station - West Ash Pond

The Southern Indiana Gas and Electric Company (SIGECO) initiated an assessment of corrective measures for the West Ash Pond at the F.B. Culley Generating Station (FBC) on 30 October 2020 in response to a statistically significant level (SSL) of an Appendix IV constituent exceeding Groundwater Protection Standards (GWPS). Pursuant to 40 CFR §257.96(a), a demonstration of need for a 60-day extension for the assessment of corrective measures was certified by a qualified professional engineer. The Corrective Measures Assessment (CMA) Report was completed and placed in the facility operating record on 26 February 2021.

Following completion of the CMA, SIGECO must, as soon as feasible, select a remedy that meets the standards listed in 40 CFR §257.97(b). Pursuant to §257.97(a), the owner or operator of a Coal Combustion Residual (CCR) management unit that has completed a CMA for groundwater shall prepare a semi-annual report describing the progress in selecting and designing the remedy. This report constitutes the first semi-annual remedy selection progress report and is comprised of activities during the period of 26 February 2021 through 26 August 2021. A summary of the progress in selecting a remedy is provided below.

#### **SUMMARY OF ACTIONS COMPLETED**

The following actions have been completed during this reporting period:

- Discussions between Haley & Aldrich and SIGECO representatives to further evaluate the details and feasibility of potential corrective measures identified by the completed CMA.
- Conducted semiannual groundwater sampling in May consistent with 257.95(b) and (d)(1).
- Pursuant to § 257.95(g), an additional monitoring well cluster was installed at the downgradient property line in the direction of groundwater flow.
- Efforts to determine the nature and extent (N&E) of the Appendix IV SSLs continued pursuant to § 257.95(g). Groundwater samples were collected from the N&E monitoring wells in March, April, May, July, and August 2021. The analytical results are being used to supplement and enhance the evaluation of the extent of groundwater impacts and assessment of corrective measures. Groundwater characterization of the N&E monitoring wells is ongoing, as the results

of each sampling event inform what additional step, if any, is necessary in order to fully delineate nature & extent.

## PLANNED ACTIVITIES

Anticipated activities for the upcoming six months include the following:

- Conduct semiannual groundwater sampling in November consistent with 257.95(b) and (d)(1).
- Continue to evaluate groundwater flow conditions and the N&E of Appendix IV constituents exceeding GWPS and the potential for off-site migration.
- Continue to evaluate engineering aspects of the closure that was completed in December 2020 and its connectivity to potential corrective measures.