

Ash Pond Process Water Basin



AECOM is designing an 11 acre process water basin within an active ash pond at a coal-fired power plant for compliance with the CCR Rule.

Client

Confidential Southeast Electric Generation Client

Location

Southeastern USA

Contract Value

USD 1.2MM (Design); 20MM (Construction)

Years

2017—present

More Information

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Project Overview

In compliance with the CCR Rule, the client is ceasing sending wastewater flows to their active ash pond system. The active ash ponds currently provide over 400 acres of treatment capacity for all of the plant flows. AECOM is designing a process water basin to manage all future wastewater flows from the plant. The basin has been optimized to an 11-acre footprint and will be located within a closed portion of the active ash pond.

Client Benefits

One challenge the team overcame while designing the process water basin involved diverting all flows around the treatment area, maintaining stability and access to an existing haul road and access roads. Their work provided a safe and efficient means to excavate and remove existing ash to address subsurface conditions associated with potential karst activity.

Work Performed

AECOM performed detailed engineering evaluations of the site to determine the optimal location for the process water basin. Following the initial siting, a detailed geotechnical and hydrogeologic characterization was performed of the selected location. The team performed testing of wastewater treatment flows and designed an optimum configuration and size for the process water basin to meet NPDES requirements.