

Ground Improvement for New Baghouse Facility

Plant Gorgas—Parrish, Alabama



Owner/Designer: Southern Company

Foundation Contractor: Berkel and Company Contractors

Years of Project: 2013

Total Project Cost: \$900 Million

Owner Reference: Jim Pegues, P.E.
(Southern Co.—205-321-1320)

Client Reference: Vaughn Godet, P.E.
(Berkel—770-941-5100)

Project Highlights:

Dan Brown and Associates PC (DBA) was Berkel's ground improvement consultant for a new baghouse facility at Southern Company's Plant Gorgas in Parrish, Alabama. The design intent of the ground improvement was to reinforce the existing subgrade materials including ash fill and soft soils for support of the new baghouse facility and to mitigate the risk of damage in the event of earthquake-induced liquefaction. DBA teamed with Pacific Engineering and Analysis to provide a site-specific probabilistic seismic hazard analysis and provided design assistance regarding the ground improvement design using Berkel's ground compaction/displacement system. As part of the ground improvement design, DBA performed three-dimensional models of the ground improvement system using the software FLAC3D.

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