



RED HILLS GENERATING FACILITY

Mining & minerals

Dump structures, Heavy load support

United States, Mississippi, Ackerman



Owner / Client :
North American Coal
Corp./Choctow Generation Power

Engineer :
Bechtel Power Corporation

Main contractor :
Bechtel Power Corporation

Terre Armée entity :
The Reinforced Earth Company
(United States)

Date :
1999

Activity :
Reinforced Earth

System :
TA "Classic"

Reinforcement :
HA / HAR steel strips

Key figures :
Area : 1500 m²
Rise: 17.3 m



The Project

Bechtel Power Corp. engineered a two unit, lignite-fired power plant, known as the Red Hills Generation Facility. This is an atmospheric fluidized bed combustion (AFBC), mine-mouth fed power plant. Bechtel developed the concepts for the handling systems including the Primary Crushing truck dump pocket, crushing systems, storage, and reclaim systems. The Reinforced Earth Company (RECo) contracted directly with Bechtel to supply design and materials for the crusher pocket head walls.

The Solution

By the year 2000 RECo had executed nearly 200 projects at mine sites in the USA as well as many more abroad. The majority of these mining references were primary crusher dump pocket head walls. Based on such level of experience it was clearly a sensible and cost effective choice by Bechtel to specify Reinforced Earth® (MSE) walls for this application.

The Advantages

Firstly, Reinforced Earth® walls can easily generate cost savings of 15% to 25% as compared with cast-in-situ walls, particularly for walls of this height (17.3m/56-ft). Also, with such high loads being applied atop the wall and directly at the wall face, the inherent load and settlement tolerance of MSE makes the Reinforced Earth crusher wall application a win-win for the owner, engineer, and contractor.

RECo#7584

