

Installation of a Pneumatic Dry Ash Handling System

Chemical Company – Virginia, USA

Client Benefits

A large chemical company in Virginia needed to implement a project to eliminate ash pond seepage and reduce total pond discharge to the New River. Peregrine was able to provide a cost effective method for this company to prevent the leaching of potentially harmful metals into the nearby ground water, while significantly extending the life of their existing landfill.

The Opportunity

The company was under a Consent Order with the Virginia Department of Environmental Quality to eliminate seepage from the plant's ash pond operations. They also made a strategic decision that this "non-core" capital project could be funded and constructed effectively under the terms of its Utility Services and Lease Agreement with Peregrine.

The Solution

As a result of the analysis performed by Peregrine and the company, Peregrine retired an existing wet ash sluicing system and replaced it with a new dry ash conveying system, whereby ash is pneumatically conveyed to a silo for holding and then hauled to a mine for dumping.



The following is an overview of the scope of work:

- All mechanical equipment, piping, pipe racks, foundations and electrical wiring
- A new dry ash truck loading station
- A 500 ton ash storage silo, two filter receiver units, aeration blower, aeration heater, paddle mixer and lobe-type blower
- New ash conveying pipe from existing building to the new silo

The project was completed in August 2001.