FEECO INTERNATIONAL

Project Profile: Synthetic Gypsum Conveyor System

PROCESS

FEECO was tasked with engineering a custom conveyor system for transporting synthetic gypsum from a power plant to an adjacent wallboard plant to eliminate the need for hauling via truck. The system consisted of three primary belt conveyors, all designed to handle a capacity of 210 TPH: one 36" x 171', one 36" x 528', and one 36" x 797'.

The belt conveyors utilized a truss frame design and incorporated skirtboards at loading areas to minimize fugitive dust. As much of the handling occured outside, the conveyors were also fitted with weather covers to protect the synthetic gypsum from the elements.

A unique challenge presented by this project was the need for a long span to cross a swamp and roadway. To accomodate this, FEECO designed an open gallery to support the long structure while still allowing for easy access and inspection. Additional customizations were incorporated to mitigate the potential for fugitive material to fall onto the active roadway.

All conveyors for the project were engineered and fabricated with the abrasive nature of synthetic gypsum in mind to provide a system that would offer long-term reliable handling.

PROJECT SPECS

Customer:
Proprietary

Equipment Supplied:
Conveyor System

Project Location:
Florida, USA

Industry:
Power

Material:
Synthetic Gypsum

Project Engineer:
FEECO International, Inc.