LIMESTONE TRANS-SHIPMENT TERMINAL MATERIAL HANDLING

CLIENT - Paradise Point Marine

LOCATION - Chesapeake, VA

COMPLETED - 2008

DESCRIPTION

Matrix PDM Engineering designed, procured, fabricated, erected, and commissioned a limestone transshipment terminal for Paradise Point Marine. The project involved two material handling systems: one for stockpiling and one for reclaiming.

Stockpiling system: Limestone from self-unloading ships is unloaded into a receiving hopper. The hopper is mounted on rails above a conveyor belt and travels along the conveyor to receive limestone from multiple unloading points from the same ship. The hopper is outfitted with a vibrating feeder to control the material feed rate onto the conveyor, with a maximum feed rate of 1500 TPH. This conveyor feeds onto a second conveyor, which is used for stockpiling. The second conveyor at its discharge has a flop gate and two separate chutes equipped with telescopic chutes to allow for the formation of two distinct limestone piles.

Reclaiming system: A dozer trap receives limestone from the stockpile and discharges onto a reclaim conveyor at 500 TPH. That reclaim conveyor spans 260 feet over a waterway, and onto a dock for discharging onto a barge loader. The barge loader has a slewing boom for rotating it out of the way when not in use.

FOR MORE INFORMATION:

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