

STORAGE SILO

Port Kaiser, Jamaica

Enco was contracted to design the material handling upgrades to increase storage capacity with primary consideration to minimizing product segregation within the storage silo. A 50,000 ton steel storage silo, feed conveyor, reclaim conveyor and controls upgrade were the major system components.

Considerations for product segregation required a state of the art distribution system; the distribution system received alumina from the Silo Feed conveyor at top of silo and through a series of air-slide conveyors the product was distributed over the entire diameter of the silo.

The silo reclaim system included a fluidized floor designed to move product from designated zones within the silo. A central fluidized reclaim tunnel transferred alumina to a discharge chute and the reclaim belt conveyor.



Silo & Feed Conveyor



Distribution Air-Slides at top of Silo

Design engineering for terminal up grade:

- Site survey
- Design engineering
- Foundation design
- Electrical power and control upgrades
- Construction coordination