

## Sulphur Transfer Tower

### Industry

North American Sulphur Export

### Application

1-on-2 Transfer Tower  
with shuttle diversion

### Material

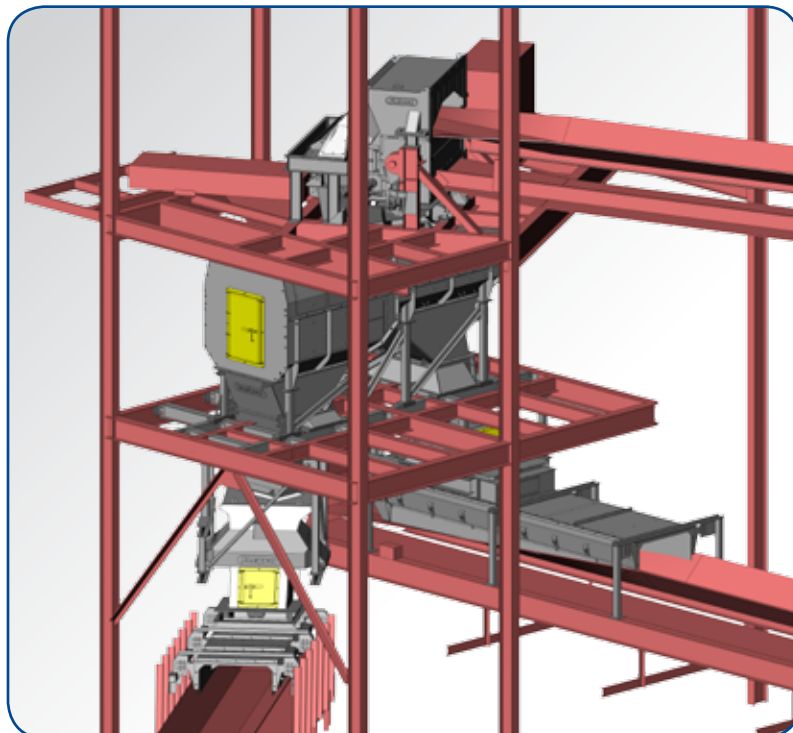
Sulphur

### Objective

Reduced dust generation

### Transfer Detail

Stainless steel, one-on-two transfer  
conveying sulphur with 60" belt widths  
running at 580 fpm



### Challenge

Operators at a sulphur export terminal weren't satisfied with the existing transfer chute because there was a significant amount of airborne dust that left a yellow haze on everything. Not only was this labor intensive and expensive to clean and maintain, but it resulted in hazardous working conditions and complaints from the terminal's neighbors.

### Flexco Solution

The terminal needed a Flexco transfer chute system that would control the flow of the sulphur throughout the entire transfer so the dust generation would be kept to an absolute minimum.

Retrofitting the existing system provided an engineering challenge because of the low head room between the feed and receiving belts. This required the use of an innovative design – a shuttle diverter. The shuttle diverter design is used when there is low head room, when space does not allow for a rotating actuator, or when a great amount of horizontal distance is required.

### Result

The new chute work is installed and running very well. Flow of the sulphur is controlled throughout the entire transfer, which results in drastic reduction of dust for the facility and has the added benefits of soft loading, reduced spillage, and virtually plug-free operation.

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