Case Study: Environmentally clean bulk exports handling

When handling bulk exports, such as mineral concentrates, the challenge of dust suppression is always present.

Background

Flinders Logistics has long been a leader in this field, ensuring that we meet and exceed environmental standards for ship loading. To this end we have been continually refining and improving the DF MISTING® system in collaboration with our customers.

OZ Minerals owns and operates the Prominent Hill coppergold mine, located 650 kilometres north-west of Adelaide in South Australia. Copper-gold concentrates produced at Prominent Hill are transported by road to a rail siding and then by rail to Port Adelaide. The concentrate is then shipped to customers in Asia and Europe.

Activity

Flinders Logistics and OZ Minerals started working together in 2012 and have strived to maintain the highest environmental standards for ship loading. Over the years they have partnered on projects to continuously refine and

improve the technology – making it more efficient and environmentally sound.

It now features several different types of nozzles with bespoke filters, and a water-wise innovation that has reduced the amount of water used to generate the fine mist spray.

Since the supply chain partnership began, Flinders Logistics and OZ Minerals have been meeting on a quarterly basis to discuss dust monitoring for copper concentrates and air quality at Berth 29. Using the DF MISTING® bar system, we have consistently found dust levels at near zero levels.

Result

Flinders Logistics and OZ Minerals won the award for "Bulk Handling Facility of the Year (Resources and Infrastructure)" for Berth 29 in Port Adelaide, at the 2014 Australian Bulk Handling Awards, and the collaboration continues to the present day.

