

# Port of Vancouver USA

**Customer:** Kinder Morgan Bulk Terminals

**Location:** Vancouver, WA

**Building Series:** TITAN®

**Building Size:** 160' wide x 450' long (48.7m x 137.1m)

**Application:** Copper Concentrate Storage / Cold Storage Warehouse



## Cover-All Provides Additional Storage Capacity at Port of Vancouver

The Port of Vancouver USA, a multi-purpose port authority located in Vancouver, WA required a 72,000 ft<sup>2</sup> (6,689m<sup>2</sup>) storage facility to be used at their bulk terminal facility. A 160' wide by 450' long (48.7m x 137.1m) Cover-All® TITAN® building was installed to provide storage for 30,000 metric tones of copper concentrate.

Kinder Morgan Bulk Terminals has 157 operating terminals including the Port of Vancouver's bulk terminal facility. In the new Cover-All® building, the bulk material is delivered through a conveyor system and high piled in the building until it is loaded back into the conveyor system for export. The Cover-All® building was designed to incorporate both of the existing conveyor systems, as well as a new system that runs through the building.

"We were very pleased with how well the building went together," said Todd Krout, Facilities Superintendent, Port of Vancouver USA. "The design was very complete and overall it was easy to assemble. The project was completed quickly which allowed us to meet our tenant's tight construction deadline. It has been a great experience and we have really enjoyed working with the local Cover-All dealer," said Krout.

Cover-All® buildings provide clear-span space without worry of running into poles or other obstructions. The truss system is constructed using ViperSteel® which is clad with a triple coated Gatorshield® corrosion barrier. Since copper concentrate tends to be corrosive in nature towards metal and steel products, a stem wall foundation was used to avoid direct contact with the copper concentrate material. "The way this building is manufactured, we should easily be able to keep the copper off of the metal," said Krout. "We look forward to this advantage from the Cover-All building."

The need for the expansion of the Port of Vancouver bulk terminal facility responded to a 92% increase in dry bulk exports through the port in 2005. "The building has provided us the opportunity to expand our business," says Chris Alexander, Terminal Manager, Kinder Morgan Bulk Terminals. "Copper concentrate is required to be in under cover storage to prevent water contamination. This building has provided additional capacity and has increased our business by 100%."

Along with the projected continuing demand from Asian markets, the Port of Vancouver is now in a position to capitalize on the exploding copper concentrate export market. "The Cover-All building has been a great addition to the Port of Vancouver and to Kinder Morgan's opportunities to export," said Alexander. "We look forward to utilizing additional Cover-All buildings in the future, not only at this facility but at our other facilities. The cost, the efficiency, its ability to withstand the weather conditions and provide a safe, dry, lighted work environment is a great advantage to our type of operation."



The 72,000 ft<sup>2</sup> (6,689m<sup>2</sup>) storage facility was installed in six weeks.



"The ability to allow light into the facility has minimized the need to turn on the lights during the day which has been a nice change from an energy savings perspective," says Krout.



Eight 4' by 4' (1.2m x 1.2m) mesh vents were installed in the end walls to provide the required air circulation.



Three 16' wide by 20' high (4.8m x 6.0m) overhead doors were installed in the Cover-All® building.

*"This building has provided additional capacity and has increased our business by 100%."*

- Chris Alexander, Terminal Manager, Kinder Morgan Bulk Terminals