RUGGED, RESILIENT MODULAR DC'S FOR RESOLUTE MINING

Resolute

Industry:

Gold Mining

Key Objectives:

Design and build 3 Modular Data Centres. The build needed to fit ISO standards for ease of shipping. Careful consideration also needed to be given to the extreme mining environments of the DC's final destination.

Solutions Specifications:

Ravenswood, QLD

- 4 Rack Build
- N+1 cooling
- UPS with 10 Minute Battery Backup
- Full VESDA and Stat-X Fire Suppression System

Syama, West Africa

- 4 Rack Build
- N+1 cooling
- UPS with 10 Minute Battery Backup
- VESDA Early Warning Fire Detection Only

Overview

Data Exchange was commissioned by Resolute to design and manufacture three 20ft Modular Data Centres to support critical infrastructure for two key mine sites. One local site in Queensland and one abroad in Western Africa.

The first of the three modules was designed to replace their existing server room in Ravenswood. It was important that this solution be hardy, robust and easy to transport. One of Data Exchanges competitive differentiators is our ISO container platform. This type of build means that we can go just about anywhere using traditional rail, road and freight without needing to plan for expensive roll-on and roll-off deployment.

Modular Data Centre Two and Three were built for deployment at the Syama mine in Mali. The Africa bound Data Centre's were designed to support Supervisory Control and Data Acquisition (SCADA). One of the DC's would house hardware with the other DC acting as a Mirror to provide disaster recovery support.

The role SCADA serves in modern mining has become increasingly important. It was critical that both modules be designed to survive extreme weather conditions and house the hardware that runs this software without compromise in Syama's harsh mining environment. As part of the Data Exchange service offering, we also provided additional detailing for securing and footing for each module.

Severe weather conditions were a key concern across all three of the DC's. Taking that into account, we used a specific ISO12944 3-coat system which gave the units a 10 to 15-year design life on the paint and waterproofing,

Our dynamic supply chain and in-house expertise meant that Resolute could take ownership of their three new fully factory tested Data Centres in 12 weeks and deployed to site ready for use.