

POTASH MINING CONTROL & MONITORING SYSTEM

Cleveland Potash are part of the ICL Fertilizers group, one of the world's largest fertilizer companies, providing end-users and manufacturers on five continents with a wide range of high-performance solutions – all from a single source. ICL Fertilizers' products include: potash, phosphate rock, phosphoric acid, phosphate-based and compound fertilizers, specialty fertilizers and phosphate-based feed additives.

THE REQUIREMENT & SOLUTION

The customer, Cleveland Potash, required a multimedia mode fibre network switch system to allow the control and monitoring of the PLC & SCADA system; which would also provide email warnings about network problems. They needed to provide a single mode fibre network switch system to allow the control and monitoring of the PLC & SCADA system used for underground conveyor control systems; as well as a method of joining the single mode fibre ring to the multimode fibre ring to allow for surface monitoring of the underground conveyor systems.



THE RESULTS ▾

The Amplicon data communications team worked with the Cleveland engineers to specify the EDS-405A and EDS-5110A Moxa Industrial Ethernet Switches; these were used for the surface control system with one redundant ring network to manage and control the process to treat the ore; and a second ring topology controlled the conveyor belts for the transfer of minerals to the surface.

WHY AMPLICON? ▾

The Cleveland engineers were impressed with the knowledgeable and consultative approach from the Amplicon team; and working in partnership the system needs were covered off with an appropriate solution that was easy to implement, offered the project future proofing and came within the budgetary constraints.