

CASE STUDY

Live level monitoring of mine sites for optimal delivery of bulk Hydrogen Peroxide.

RESULTS

- Live level measurement ensured optimal delivery schedules with maximum product
- Eliminated reliance on end users providing last minute stock re-orders
- Greatly reduced transportation costs with less frequent silo refills
- Due to the remoteness of some sites, logistics planning is significantly improved
- Benefits to OH&S due to less employee interaction with the resultant reduced deliveries

APPLICATION

Live level measurement of Hydrogen Peroxide (H₂O₂) for Peroxide Assisted Leach (PAL) of Gold ore and effluent treatment

CUSTOMER

A major supplier of Hydrogen Peroxide in Australia & New Zealand

CHALLENGE

Hydrogen peroxide is an important process agent for the mining industry. Mines are mostly operating in remote locations where suitable ores are found. At the same time they are chemical plants handling dangerous chemicals and have to ensure safety to the miners as well as the environment. Due to the remote nature of the sites, the supplier wanted a more efficient way of monitoring these sites to allow for better scheduling and maximising product delivery to reduce the number of times a truck needed to be sent.

Whilst the client sites have access to local displays through a SCADA system or similar, giving outsiders access to these system is not feasible.

As some of the sites did not have any mobile network reception, the supplier also needed a way to get the levels from their client without relying on the mobile network.

SOLUTION

Tanktel provided their standard remote terminal units (RTU's) for sites that had reliable mobile network services. For the few sites that couldn't utilise our RTU's, we worked with the end user to setup secure FTP uploading of text files from their SCADA or similar system.

They created an automatic level upload schedule to the telemetry server for viewing via the Tanktel web interface.

CASE STUDY

Live level monitoring of mine sites for optimal delivery of bulk Hydrogen Peroxide. (H2O2)



SOLUTION cont..

Giving access to suppliers via remote telemetry for any bulk storage requirements, without the need to intrude on any IT infrastructure, allowed access to live data so the supplier can now view current levels, daily, weekly and monthly trends to enable a better understanding of the customer's usage, and plan optimal deliveries. It also estimated the time until empty based on current usage. Having reduced deliveries to site also had the added benefit of less human interaction with dangerous chemicals at each site, thus enhancing OH&S outcomes.

Tanktel monitors thousands of bulk storage tanks and silos throughout Australia & New Zealand.

Minesites can benefit from allowing suppliers access to levels which will not only assist the supplier, but also the client. Everyone wants to reduce costs and get a better ROI. Tanktel can help with the logistics component of bulk chemical, oil & storage by helping to lower costs due to more efficient freight route planning and improve OH&S aspects of dangerous chemical handling.

Miners rely on a continuous supply of raw materials to keep their operations running at optimal levels. Allowing suppliers of raw materials to remotely monitor bulk tanks or silos of a mine site ensures scheduled deliveries are always made before materials run out, and in a timely manner that is beneficial to both the supplier and end user. With real time LIVE monitoring, you can be assured that you will have the latest available levels.

Tanktel monitoring is hugely beneficial for logistics planning and has the potential to save many 1000's of dollars with forward planning. Initially developed for tanks & silos it now monitors many other critical processes such as flow, temperature and process status.