SOLUTION SHEET

Driving shift excellence in mining



The challenge

Mining companies operate in a complex environment of internal policies and procedures, external standards and local and national laws and regulations. A mix of paper, spreadsheets, scattered databases, blackboards and poor verbal communication have often been used to record events within the mining industry. Following the fatal incident that occurred at the Fortescue Metals Mine, the West Australian Department of Mines and Petroleum issued a report advising managers and supervisors to conduct detailed risk assessments for work associated with or near suspended loads, identify stored energy hazards and put proper safety measures in place. The report also recommended that incoming workers be given enough information during shift handover to continue carrying out a job safely.

The solution to drive shift excellence

Octave Tempo Operations Management (formerly j5 Operations Management Solutions) are used across the mining industry to improve communication and data collection at all levels of a mine operation. Tempo Operations Management applications enable operations, maintenance and process safety personnel within a mining company to manage their compliance duties efficiently and consistently.

Tempo Operations Management can connect to external software such as the Aveva™ PI System™ to monitor real-time and historical data from equipment, sensors, instruments, the DCS and SCADA systems. This ensures that all the relevant data recorded at a mining asset can be shared with the correct people in real time.

AGL Energy Loy Yang Mine case study

AGL Energy is one of Australia's leading integrated energy companies and the largest ASX-listed owner, operator and developer of renewable energy generation in the country.

AGL Energy was aiming to streamline the provision of daily requirements and combine that data with actual achievements to evaluate the shift production levels at the Loy Yang open cut brown coal mine in Victoria's Latrobe Valley.

AGL Energy now uses the Octave Tempo Operations Logbook (formerly j5 Operations Logbook), Octave Tempo Shift Handover (formerly j5 Shift Handover), Octave Tempo Work Instructions (formerly j5 Work Instructions) and Octave Tempo Action Management (formerly j5 Action Management) capabilities throughout its operations along with using Tempo Operations Management templates and reporting functionalities to meet its extensive requirements.

AGL Energy has also connected Tempo Operations Management with the Aveva™ PI System™ and current and future planning data is provided to Tempo Operations Management applications to build the requirement details and the resulting shift production levels.

Tempo Operations Management makes key shift information available to the entire operations team. This enables greater communication and direction within the group, which are crucial in processes like management of change and incident and near miss management.

Senior managers can also use Tempo Operations Management Dashboards, Reports and Views to analyze the performance of their mines. This allows them to compare and contrast mine performance to optimize costs and efficiency.

This combined data generates four reports for each shift at the Loy Yang mine:

Shift Production Requirements Report provides the tonnage required and the rate per hour, major events on the dredgers, digging priority instructions, quality of the coal and the bunkering strategy.

Coal Draw Directive Report provides instructions to the dredger operators on the shift's drawing positions.

Shift Leaders Report compares planned and actual results, includes bunker levels, stocks at the start and end of shift, output and digging rates of individual dredgers and major events from the Aveva™ PI System™.

Shift Handover Report contains additional shift information including hazards, safety and planning issues.

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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