



CASE STUDY

Octave Tempo Operations Management enables project to record plant activities, issues and statuses in single data repository

Key facts:

Company:

Calpine Corporation

Website:

calpine.com

Industry:

Power generation

Location:

Houston, TX, USA

Octave solution used:

Tempo Operations Management (*j5 Operations Management Solutions*)

Key benefits:

- Management reporting streamlined
- Improved flow of information to users
- Transfer of information at shift handover is clear and automated
- Power reliability problem awareness increased
- Aided in personnel transfer between plants
- Eliminated disparate logbook solutions
- Common software platform reduced corporate risk

Calpine Corporation is America's largest generator of electricity from natural gas and geothermal resources.

Its fleet of 83 power plants in operation or under construction represents nearly 27,000 megawatts of generation capacity.

Serving customers in 18 states and Canada, Calpine specializes in developing, constructing, owning and operating natural gas-fired and renewable geothermal power plants that use advanced technologies to generate power in an environmentally responsible manner.

The problem

Calpine's project objective was to implement a web-based electronic logbook application for recording plant status, shift activities and open issues to facilitate the shift handover. The system and data needed to be readily accessible to all Calpine plants in a format common to all users. It needed to be accessible from its widely distributed facilities and at the same time visible from a corporate level.

The challenge was to find one single system that could serve a high user load from facilities in different regions and with different fuel types.

Tempo Operations Management meets these needs and is replacing all current methods of recording such information at Calpine. The Tempo Operations Logbook (formerly j5 Operations Logbook), Tempo Shift Handover (formerly j5 Shift Handover) and Tempo Standing Orders (formerly j5 Standing Orders) applications are now all in operation.

How Tempo Operations Management solved the problem

Tempo Operations Management provided a central installation that is flexible enough to accommodate Calpine's diverse facilities. Operators see only the data from their facility, but the data is visible at a corporate level for trending and analysis. This provides Calpine Corporation an overview of its corporate data set and allows analysis particularly in regard to its corporate NERC compliance.

Calpine has also been provided with custom configuration, including the ability for each site to add its own predefined message templates.



Benefits of Tempo Operations Management

The project has resulted in the establishment of a common methodology for recording plant activities, issues and status in a single data repository, unlocking many benefits:

- The transfer of information at shift handover is clear and automated
- Awareness of power reliability problems that need to be addressed has increased
- Transfers of personnel between plants have been aided
- A controlled, secure environment to manage operations management procedures has been established across the Calpine fleet, eliminating disparate logbook solutions
- Compliance with logbook policies and procedures on a common software platform has reduced corporate risk

Customer testimonial

"It has become an essential tool. Logbook entries from 12 remote sites can now be easily reviewed first thing each morning via the emailed daily log report. Old-school operators were initially skeptical but quickly learned how to use the program."

"The program is used by 100% of the employees, many of whom had no computer skills prior to Calpine. Previous paper logbook entries were lacking and management oversight of the log entries was used mainly when there was an incident. The program is used to support plant administrative activities such as GADs, corporate event reports and used to monitor daily work activities."

"One of the other major benefits of the program is the operational order feature. Managers now have the ability to issue night orders, standing orders and new procedures and then have the ability to see that their direct report received and acknowledged.

It makes the employees more accountable for their actions and is just a good way to communicate."

Plant Manager
Calpine Corporation

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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