

j5 enables project to record plant activities, issues and statuses in single data repository

Key Facts:

Company: Calpine Corporation

Website: www.calpine.com

Industry: Power generation

Location: Houston, TX, USA

Products Used: 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

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.

j5 Operations Management Solutions meet these needs and are replacing all current methods of recording such information at Calpine. The j5 Operations Logbook, j5 Shift Handover and j5 Standing Orders applications are now all in operation.

How j5 Operations Management Solutions solved the problem

j5 Operations Management Solutions have 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 j5 Operations Management Solutions

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 Hexagon

Hexagon is a global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications.

Hexagon's Asset Lifecycle Intelligence division helps clients design, construct, and operate more profitable, safe, and sustainable industrial facilities. We empower customers to unlock data, accelerate industrial project modernization and digital maturity, increase productivity, and move the sustainability needle.

Our technologies help produce actionable insights that enable better decision-making and intelligence across the asset lifecycle of industrial projects, leading to improvements in safety, quality, efficiency, and productivity, which contribute to Economic and Environmental Sustainability.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 24,000 employees in 50 countries and net sales of approximately 5.5bn USD. Learn more at [hexagon.com](https://www.hexagon.com) and follow us @HexagonAB.