CASE STUDY

Octave Tempo Operations Management solutions upgrade and enhance work processes for Resonac



Key facts:

Company: Resonac (previously Showa Denko)

Website: www.resonac.com

Industry: Petrochemicals

Octave products used: Tempo Operations Management *(j5 Operations Management Solutions)*

Key benefits:

- Advanced business operations and technology transfer to young staff
- Significant reduction in business hours due to improved efficiency

The challenge

The degradation of experience and knowledge due to rapid generation change was starting to cause issues.

- Operations management methods and levels differed in each department and best practices were not shared
- It took time to prepare and transcribe paper-based orders and activating the creation of these orders was difficult
- Leakage/missing data occurred in the shift handover and work instructions processes, which was a concern for stable operations

How Tempo Operations Management solved the challenge

Resonac implemented:

- **Tempo Operations Logbook** (formerly j5 Operations Logbook
- **Tempo Shift Handover** (formerly j5 Shift Handover)
- **Tempo Work Instructions** (formerly j5 Work Instructions)
- **Tempo Standing Orders** (formerly j5 Standing Orders)

Tempo Shift Handover produces reports for operators, boardmen and supervisors with relevant data, events and instructions for each unit and area of the refinery. It ensures a consistent, visible and accountable process.

Tempo Work Instructions enables planners to schedule ad hoc and recurring tasks for operations team members. Tasks are marked as complete and summarized in the Tempo Shift Handover reports.

Tempo Standing Orders allows for the controlled dissemination of important communications within the plant.

Resonac's Oita Complex is the main manufacturing base of its petrochemicals division and is equipped with a naphtha cracker.

It has a well-balanced demand structure and the basic materials manufactured are supplied to the producers of plastics, synthetic rubber and styrene monomers.

These customer plants are operated by other companies within the premises, and the acetyl derivatives plant is operated by Resonac.

Benefits of Tempo Operations Management

A standard operations management system has been established for each department, enabling standardization across the complex.

Improvement in work efficiency was realized and a significant reduction in business hours was achieved.

By utilizing electronic information, Resonac Oita Complex succeeded in enhancing operator skills and supporting technology inheritance.

Reducing leakage/missing data using Tempo Shift Handover and Tempo Work Instructions has enabled a more robust and stable operation.

Finally, Tempo Operations Management provides an advanced business operations and technology transfer to young staff.

"We were fascinated by the ease of use of the Tempo Operations Logbook. We introduced Tempo Operations Management to maintain and improve the on-site capabilities and to upgrade the work processes. We think that this is a communications tool that can be utilized not only for the operations management at a production site but also for field management in general."

Production Engineering
Resonac Oita Complex

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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