

POWER GENERATION CASE STUDY
Salt River Project

**A Case Study Written by j5 International
With Assistance From Salt River Project**



Salt River Project was founded in 1903 and has been shaping the concept of a public power utility in the United States of America ever since.

They have gone on to become the United States of America's third largest public power utility and one of Arizona's largest water suppliers.

The company uses renewable energy sources as part of its portfolio for power production which include Hydro, Wind, Geothermal and Solar Energy sources.

The Objectives

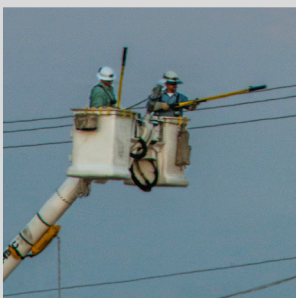
- Replace an outdated tool which was being used for process alarms and logging of events
- Improve communication between the operations and maintenance teams
- Decommission other small in-house developed applications
- Reduce manual processes
- Increase accuracy of alarms and other items related to situational awareness
- Implement a solution that is embraced by personnel

The Problem

Salt River Project were using an old generic notes application, which was configured to monitor process alarms and used for the standard logging of events. They decided that this technology was not fit for purpose in their modern environment and were concerned about the lack of support from the vendor.

Maintenance issues could also not be monitored using the limited functionality of this software. Manual processes were unnecessarily difficult and there was less accuracy of alarms, which was lowering situational awareness.

A formal RFP process - after defining requirements from the business units – was conducted and j5 Operations Management Software was chosen as the preferred solution to replace their antiquated technology.



Delivering water and power™

How j5 International Provided the Solution

Salt River Project have implemented the following j5 Applications to satisfy their requirements:

- **j5 Operations Logbook**
- **j5 Shift Handover**
- **j5 Standing Orders**
- **j5 Event Manager**
- **j5 IndustraForm® Templates**
- **j5 IBM Maximo Interface**
- **j5 OSIsoft PI Interface**
- **j5 OPC Interface**

The j5 Operations Logbook enables the clear recording and managing of manual and automated events across shifts. These events are visible in a consistent and efficient way on a web browser, which was not possible using the previous outdated software at Salt River Project.

j5 Shift Handover allows operators, supervisors, and managers to thoroughly review relevant data, events and alarms at turnover, ensuring a consistent, visible and accountable process.

j5 Standing Orders enables the controlled dissemination and acknowledgment of critical communications across the Salt River Project operations team.

The j5 Event Manager ensures that the real-time events retrieved using the j5 OSIsoft PI Interface and the j5 OPC Interface are properly recorded and the correct human workflows are put in place.

j5 IndustraForm Templates allow for consistent layouts, fields, categorization, hierarchies, reports and clean data. This enables users to easily search for and understand important information, improving day-to-day performance and safety. Personnel use j5 Shift Handover IndustraForm Templates to record and view a range of manual and automated data and follow a strict approval workflow related to each Shift Handover process.

The j5 IBM Maximo Interface retrieves equipment and functional location data in order to populate the j5 Asset Register, improving communication between the operations and maintenance teams.

The Benefits

- Implemented a supported digital solution that can be extended easily
- Improved the flow of communication and information which has resulted in better productivity
- Using a proven operations management platform rather than multiple singular in-house developed applications
- Manual processes have now been digitized and reduced
- Auto feed of specific alarms is saving time at the end of shifts and improving accuracy
- Personnel have adapted to j5 Operations Management Software easily

Benefits of j5 to Salt River Project

Salt River Project has now implemented a leading-edge digital solution that can be extended easily and is fully supported by j5 International. This has improved the flow of communication and information which has resulted in better productivity.

Using the proven j5 Operations Management Software platform rather than multiple singular in-house developed applications, allows their internal resources to be utilized elsewhere. Manual processes have now been digitized and reduced and the auto feed of specific alarms is saving time at the end of shifts and improving accuracy.

Personnel have adapted to j5 Operations Management Software easily, which is important, as the solution aims to improve the day-to-day human processes.

Customer Quote

"Without j5 Operations Management Software there would be more manual processes and as a result less accuracy and situational awareness of recorded events and important alarms. Our business users like the solution and it has helped them achieve greater productivity."

Maureen Kempton

Manager of Business Systems Applications
Salt River Project

**Contact j5 International
for more information**

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