Turnaround/Shutdown/Outage – Mission Critical Insights

Industry: Oil & Gas

A global oil & gas company owning 8 refineries wanted to increase the overall reliability of its plants and have better predictability and prevention of asset failures. The primary objectives for the project included managing multi-million dollar budgets for large-scale planned refinery shut down projects. They were looking for next-day insight into manpower and spend for thousands of contractors. They wanted proactive identification of potential cost overruns. In addition, they were looking to integrate across Primavera data for scheduling, maximo data for work control and SAP data for financial.

Business Challenges

This effort was aimed at integrating activities associated with 'Streamlined Reliability Centered Maintenance (SRCM), preventive maintenance, condition monitoring and surveillance, inspection and testing, long-term planning, equipment performance and casual analysis.

The biggest hurdle the company faced was that critical data was isolated in disparate systems and applications and applications spread across different refineries as well as operator logs, various spreadsheets etc.

Rolta Solution

The Rolta BI Team followed its proven BI implementation methodology to guide the overall process. Each phase had explicit tasks and deliverables identified to ensure the project would provide the proper technical and functional solution. In just 4 months, Rolta delivered the entire Operational Excellence & Reliability Intelligence platform across 8 refineries integrating 28 different data sources of reliability, maintenance and project. The resulting system delivers vital reliability information on more than 100,000 pieces of equipment to hundreds of operations throughout the refineries. This newly implemented analytics capability has created a new culture where reliability has become a shared responsibility across different functional and business areas.

Business benefits and Impact

- Large number of reliability threats identified and resolved
- Major reduction in condition monitoring & surveillance exceptions
- Environmental exception events at historical low
- Reduction in cost of incidents
- Increase in the run lengths of operating units

About Rolta

At Rolta, we envision a better future, and then design technology to create that future. Our innovative IT solutions span various verticals, including Utilities, Transportation, Process, Power, Banking and Insurance. Through our cutting edge software for mapping and earth sciences, we also provide a complete array of solutions for Defense and Homeland Security, including C4ISTAR information systems, Military Communications, Digital Soldier and Vehicle Systems. Our team diligently works to exceed our customers' expectations, and has successfully executed strategic projects in over 40 countries.