

Oil Refining Company Improves Asset Standardization and Reliability Strategies

RESULTS

- Standardized 75,000 assets and aligned in a standard hierarchy within SAP and to ISO 14224 standards
- Strategies to improve 99% of equipment population
- Zero lost time or OSHA recordable injuries



APPLICATION

- Oil Refining

CHALLENGE

Over the past five years the site had been plagued by major set-backs in safety, regulatory compliance, operational performance, profit margins, availability, and even acts of god (hurricane). A new leadership team determined that re-establishing the basis for a world-class maintenance and reliability program would be the best solution to create and sustain improvement, while becoming compliant with regulatory and corporate objectives. Initial planning forecasted the activity to take over 3 years to complete. With ever increasing pressure on compliance, operational performance and margins, leadership could not wait; they decided to significantly accelerate their efforts.

SOLUTION

The client selected Emerson for developing a sustainable reliability program.

- The company rapidly deployed a team of over ninety highly trained consultants, engineering, IT and program management professionals equipped with Emerson's proprietary project accelerators and proven enterprise level SAP compatible tools
- Deployment of Catapult software tool to capture and standardize asset data, complete criticalities, and create PMs, 100% pre-aligned to the current SAP configuration
- Applied Emerson's standards to help accelerate the project, including:
 - Strategy Sessions: (Asset, Asset Hierarchy, Criticality, FMEAs, PMs)
 - Equipment Standards Library (class/subclass)
 - FMEA Library and Smart PMs
- A program office was established to manage overlapping activities across multi-vendor and client teams.

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Additional Results

- Transcended traditional timeframes for delivering such an effort and completed the initiative in 8 months, and on budget
- Improved equipment inventory accuracy in SAP to 97% to align with industry benchmarks of 98%
- Validated and standardized a list of 75,000 assets and aligned in a standard hierarchy within SAP and to ISO 14224 standards
- Developed equipment strategies to improve reliability of 99% of the equipment population
- Increased the maintenance coverage of critical equipment with maintenance strategies to 99%, aligned with industry benchmarks
- Corrected 1,700 drawing discrepancies while creating standard hierarchy within the Documentum system
- Experienced zero lost time or OSHA recordable injuries

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