

Refinery Operator Expands Production Monitoring with Remote Instrument Enclosure

A petrochemical production facility needed to enhance its automation integration by expanding its use of instrumentation in multiple production areas. A remote instrument enclosure (RIE) fabricated off-site needed to be seamlessly installed and integrated.

Main Objective

The client needed to design, fabricate and install a modular RIE that would allow for the expansion of the production facilities' automated production monitoring systems without impacting production. The partner in this project needed to work with the client's preferred equipment and instrument manufacturers and then integrate the new RIE capability into the existing distributed control system (DCS).

Customer Results

The RIE and all systems were functionally tested by MAVERICK and witnessed by the client before delivery. Because of RIE fabrication schedule delays, the delivery date slipped. However, the client was extremely pleased and impressed with the quality of the design and fabrication of the RIE module and the systems installed in it. The customer is using this design as its standard for all future RIE installations throughout its production facilities.

Application Description

- ◆ **RIE Design:** MAVERICK Technologies created a team of designers, fabricators and suppliers to complete the design to the client's specifications. In many instances MAVERICK exceeded the standards in order to provide the highest-quality systems needed for the production facility and to withstand the rigors of the climate and working environment.

The customer was offered options for HVAC design that would ensure safe and continued operations in the extreme temperatures encountered in the Desert Southwest.

Coordination of multiple subcontractors and the customers' operations and maintenance teams was critical in achieving the installation objectives without impacting safe operations and production at the refinery.

- ◆ **Installation and Commissioning:** The project team overcame logistical challenges, delivering and installing the finished RIE without incident.

The MAVERICK Technologies management team coordinated the activities of other customer service providers, including Honeywell, for the installation and commissioning of customer-specified components, including LCN and HPM cabinets, security systems and the fiber optic-based communications backbone.



Remote Instrument Enclosure in Place



RIE Being Lifted into Place at Refinery