

DATA-LINC & Rockwell facilitate oil refinery's commitment to environmental air quality

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Abstract: Ausenco PSI LLC, formerly Pipeline Systems Incorporated (PSI), engaged in the engineering, design, and implementation of long-slurry transport pipeline and control systems. PSI spec'd Allen-Bradley PLCs and Data-Linc modems for a Ground Level Air Monitoring system that would ensure air quality was maintained.

PSI, a company that provides comprehensive services for pipeline system implementation, assisted a large oil refinery in upgrading their Ground Level Air Monitoring (GLM) system. The old proprietary system relied upon recurring-cost leased line communications and a "home grown" monitoring system.

The replacement network design incorporated commonly available communication and control components and fiber optic lines as well as the existing PLCs. Four Data-Linc license-free SRM serial radio modems in Master, Remote and Remote/Repeater modes interfaced

with Allen-Bradley SLC 5/04 programmable controllers for the data front end. At the other end, the PLC networks communicate into the plant over a gateway via a DCS (Distributed Control System) for monitoring and control of presentation, logging and reporting data.

Data-Linc's SRM modems were ideal for this application. They not only eliminated the leased line fees and provided reliable, robust data communication, but also because all of Data-Linc's modems are factory preconfigured for each application, they interfaced seamlessly with the legacy equipment, making installation not only easy but also providing additional cost savings.

