

# SGS VALVE AND INSTRUMENTATION TESTING FOR BRAZILIAN RENEST REFINERY

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In January of 2012, SGS announced that it had signed a twelve-month contract with Jaraguá Equipamentos to provide comprehensive testing services for manual gate, ball and check valves and monitoring instrumentation at the RENEST refinery in northeastern Brazil. Since then, a team of SGS experts has conducted comprehensive calibration and maintenance testing services of all manual valves and necessary instrumentation required for the successful operation of the new RENEST petrochemical refinery.

### SGS GUIDES JARAGUÁ TO SAFETY

Jaraguá Equipamentos, heavily involved in the rapid growth of Brazilian industry, has a presence in all implementation stages associated with industrial projects. These stages range from engineering, logistics, manufacturing, assembly and construction to maintenance, assurance, technical assistance training and after-sales

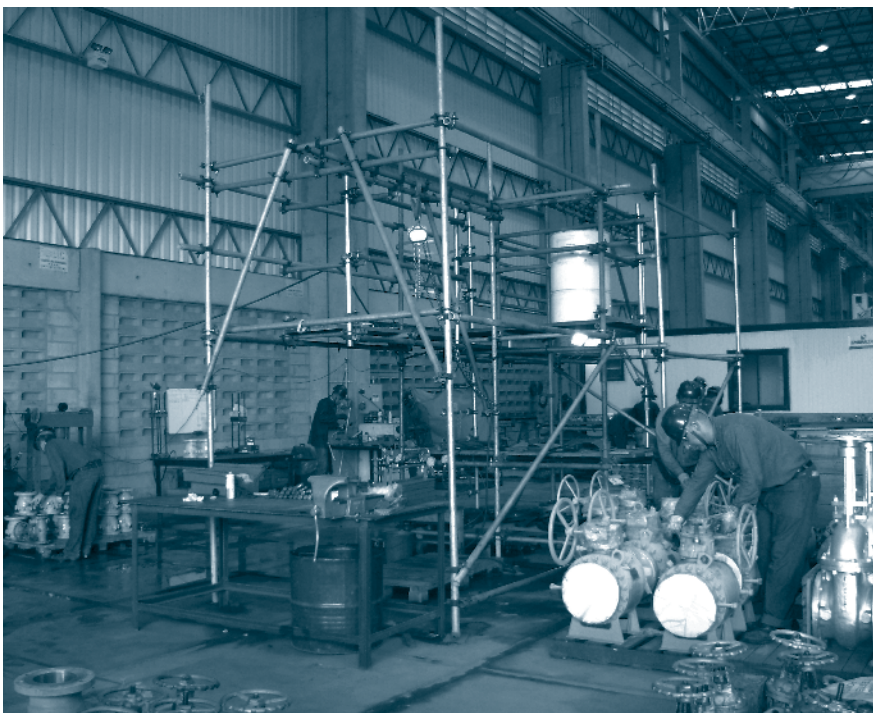
service. Infamous for its design and manufacturing of equipment used in the oil, gas, petrochemical, biomass, chemicals, pulp, paper, agriculture, aerospace, nuclear energy and industrial fields, Jaraguá Equipamentos ability to build power plants and produce components, systems and equipment is clearly illustrated by the successful and superior construction of the new RENEST refinery.

In planning the construction of the new RENEST refinery in Brazil, Jaraguá searched the world for a competent and reliable partner to provide independent third party quality and safety testing of the facility valves and instrumentation. After careful review of world leaders in the field, it was SGS extensive experience and expertise knowledge in valve and instrumentation calibration and maintenance which led Jaraguá Equipamentos to designate SGS to assist in the testing and verification of this project of paramount importance.

### MANUAL VALVES AND VITAL INSTRUMENTATION TESTED BY SGS

When building a new refinery such as RENEST, it was essential that SGS ensure the quality and safety of all components required in the construction. With the testing of 12,000 manual valves and important instrumentation prior to installation, SGS experts have been able to substantially reduce the risk of failures and discontinuities in both the successful start-up phase and reliable long-term operation of the new plant.

SGS specialists implemented the most modern of techniques to verify the accuracy of 12,000 manual gate, ball and check valves in accordance with all relevant regulatory standards. Primarily used to permit or prevent the flow of liquids, gate valves were tested by SGS inspectors for their ability to do both. Ball valves, typically used for shutoff applications, were tested to assure that they would function in case of an emergency shutdown. SGS examined check valves which allow fluids to flow through in only one direction with an opening for fluid entry and an opening for the exit of fluid to ensure the smooth flow of petroleum product liquids. SGS on-site testing using mobile calibration laboratories has documented passing grades to leaking tests conducted on valves at RENEST in compliance with API and Petrobras standards thereby eliminating costly valve-related problems and largely decreasing devastating process downtime caused by preventable control failures.





Also aware of the vital importance of the accuracy and reliability of the instruments and devices designed to monitor, control and supervise the industrial processes at RENEST, SGS has provided expert quality instrumentation calibration and maintenance testing as mandated by current international regulations to ensure the comprehensive quality and compliant performance of all necessary and mandated facility monitoring instrumentation.

Diverse SGS quality and safety testing of all manual valves and critical instrumentation previous to ultimate installation in the new petrochemical plant system has dramatically reduced any risk of failure and disruption of service to warrant the distinguished RENEST project safe and successful operation and quality and reliable delivery of services.

#### **SGS CONFIDENCE AND CLOUT**

SGS highly-skilled, professional inspectors have provided owners, managers, investors and consumers the confidence in knowing that RENEST is reliable, safe and compliant. This SGS guarantee has increased RENEST asset value and customer assuredness resulting in strong returns and higher profits.

SGS is pleased to have been involved with this distinguished project and to have been able to service the proud people of Brazil in their endeavor to receive safe and reliable quality energy service.

#### **CONTACT**

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