Retrofit Retrofit – SINOPEC Zhenhai Refining & Chemical Company, China



Main Facts

Customer: SINOPEC Zhenhai Refining & Chemical Company Industry: COG Commissioning: October 2009 ABB service: Retrofit

Customer Need

- · Replace LV compartment with new relay
- Use ABB circuit-breaker to replace locally manufactured equipment to increase operational reliability and reduce need for power outages

ABB Response

- · Site survey
- Professional retrofit solution
- · Equipment and installation

Customer Benefits

- · Achieved equipment upgrade
- · Minimized power outage and loss of production

The Story

SINOPEC Zhenhai Refining & Chemical Company (ZRCC) is a backbone enterprise under China Petroleum & Chemical Corporation (SINOPEC). As a key account, ABB had supplied over 1,000 panels of MV (Medium Voltage) switchgear.

When ABB's service team carried out on-site service at the beginning of 2009, ZRCC raised an issued that over 10 panels of MV switchgear produced by a domestic switchgear supplier malfunctioned frequently along with 159 relay units that had been supplied by AREVA as upgrades in the hope that the equipment could be retrofitted without requiring a long power outage.

Due to this situation, ABB provided a retrofit solution including:

• For the 10 panels of MV switchgear, the intrinsic shell and cable was kept, while the original circuit-breaker was replaced by ABB's power block and VD4.

• Replace LV (Low Voltage) compartments with new relays supplied by the customer.

This approach kept the interruption to the site electricity supply to a minimum, and there was no obvious impact on production.

ABB exceeded the needs and expectations of the SINOPEC Zhenhai Refining & Chemical Company. The customer now plans to upgrade the remaining equipment on the same basis.



