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 issue 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.