

DUFERDUFIN Giammoro Revamping of 220-12kV SS HV and MV distribution with SCADA



220kV BUSBAR System



Transformer feeder Bays



Detail of the Disconnecter-switch

A complete revamping has been performed at The Steel Plant "Duferdofin SPA" of DUFERCO company, (Giammoro, Messina Italy). Turnkey supply included: Whole Design, fabrication, inspection, delivery on site and site tests for the 220kV Sub Station. All HV equipment has been replaced, installing new Circuit Breakers, Horizontal-Line Disconnecter-Switches and Vertical Disconnecter-Switches, Voltage and Current Transformers, Surge Arresters. The supply included the revamping of the BUSBAR system whit new insulators, clamps, bolts and other accesories. The revamping also included all circuits on transformers and their cooling system.



SCADA Panel

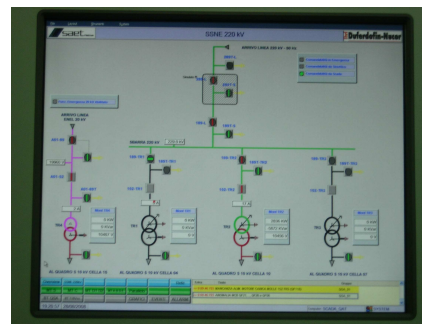
The Control Panel has been substitute whit a new fully automatic one for the Protection, Metering and Control of 220/10kV Tranformer bays. SAET has also supplied new MV 12kV Metal Clad Panels, Auxiliary LV AC/DC system. To ensure the feeding of more essential Loads it has been realized an Emergency System using the incoming ENEL 20kV Line whit dedicated 6MVA Transformer placed in an adequate Connection Room. It has been realized a new GE Intelligent Protection System for HV and MV Areas with new SCADA workstations. LV cables and Optic Fiber have been routed and connected.



12kV Metal Clad



Detail of Protection on Metal Clad



SCADA Terminal



12 kV "C" Cabinet Metal Clad