# sgcaustralia

# CASESTUDY TASIAST GOLD MINE OPTIMISATION PROJECT

## **PROJECT PROFILE**

SGC Australia were awarded the plant wide design and commissioning of the Electrical switchboards, PLC and SCADA systems on Phase 1 of the Tasiast Expansion Project in Mauritania. The project involved the design, fabrication, shipping, installation and commissioning of 10 switch-rooms, 30+ control panels requiring 200+ drawings for both the process plant and three

Phase 1 expansion of gold process:

power stations.

- Increase mill throughput from 8k to 12k t/day
- Install a new Primary Crushing
   Facility
- Install new SAG Mill and upgrade the Electrical systems to cope with the increased demand
- Upgrade existing Ball Mills CIL and Floatation circuits
- Increasing crushing and grinding facilities

# **PRODUCTS HANDLED**

• Gold

#### **PRODUCTS USED**

- New Schneider M580 PLCs
- New Schneider Altivar VSD
  controllers
- New Schneider SCADA Wonderware
- New Siemens Ruggedcom Network
- switches RS2100
- New Siemens Ruggedcom Network
- switches i800
- New Cisco Catalyst 2960-X Series
- Switches
- New HV and LV switchboards
- Co-ordination of 3 independent power stations on islanded grid



### OUR INVOLVEMENT

E,I&C design, drafting, fabrication, installation and commissioning including:

- Supervision of electrical switchboards, VSD and switchroom construction
- (33kV down to 415V) in Jakarta Indonesia
- Programming/Configuration of HV protection relays, MV VSDs, LV VSDs, LV DOL Protection Relays
- Factory Acceptance testing of switchboards, VSDs and switchrooms
- As Building of drawings, QA/QC for all electrical equipment
  - Plant wide PLC and SCADA System:
    - Control paneling
    - Power Station Controls system
    - Perth based design and FAT
    - Site installation and commissioning
    - Control panels design and construction
    - Process control network and architecture design

