

AFRICA REGION
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The new switchgear with Arcteq IEDs and arc protection systems during FAT inspection.

Arcteq IEDs and arc protection systems to African mines

Arcteq IEDs have been selected to Gecamines Sarl DRC mining facilities. The AQ F215 and F210 feeder protection IEDs and AQ T352 transformer protection IEDs are installed in 110kV and 6.6kV substations.

Arcteq IEDs are applied for protection, measurement and control. All IEDs are communicating to facilities' SCADA system using IEC 61850 communication standard. Arcteq has also supplied fully selective arc protection systems to Gecamines' new 6.6kV metalclad switchgears.

Gecamines adapted a new switchgear protection philosophy to all new 6.6kV switchgears. The switchgear protection scheme



Medium voltage switchgear destroyed by arcing fault prior to installing Arcteq IEDs and arc protection systems.

was rationalized and the AQ 100 arc protection systems were specified followed by the devastating arc fault accident suffered earlier. Arcteq AQ 100 type of arc protection relays make switchgear safer by ultra-fast and selective protection with the industry leading system reliability.



AQ F210 IEDs to Eskom, South-Africa

Arcteq AQ F210 feeder protection IEDs with integrated arc protection feature are protecting Eskom's mobile 11kV substation in Johannesburg region.

The AQ F210 IEDs are used for overcurrent, earth fault and arc protection and switching device control of 11kV switchgear in Eskom mobile substation.

Anglo Gold Ashanti selects AQ 100

Anglo Gold Ashanti, one of the leading global gold exploration and mining corporates has selected Arcteq's well proven AQ 100 arc protection system to enhance their power distribution protection schemes. The AQ 100 arc protection systems have been installed to improve both personnel safety and asset protection in substations. Arcteq has delivered 45 AQ 100 arc protection systems with more than 150 arc light and pressure sensors to Anglo Gold Ashanti facilities in South-Africa.

Power plants in Madagascar protected by Arcteq

Arcteq has supplied protection and control IEDs to two independent power producer plants in Madagascar. Both plants have an output of 12MW with rated voltage of 20kV.

The first unit in Diego Suarez consists of 3 units of 12V32 Wärtsilä generators and was taken in use in January 2014. The second unit with 3 units of 16V32 and 1 unit of 12V32 Wärtsilä generators is located in Tulear and is scheduled to be in production at March 2014.

Arcteq scope of supply includes AQ G357 generator protection IEDs for generator and unit transformer protection. The AQ F215 feeder protection IEDs are used for the main interconnecting feeders and AQ F201 overcurrent and earth-fault relays are protecting the plant service transformer feeders.