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Copper-Cobalt Phase III



Location: Democratic Republic of the Congo (DRC)
Scope: Engineering, Procurement & Construction Management (EPCM)
Completion: 2012

Phase III of the copper-cobalt project entailed upgrading the two existing copper-cobalt processing plants (Phases I and II) to increase the combined production of London Metal Exchange (LME) Grade A copper cathodes from approximately 60 kt/a to approximately 100 kt/a, as well as significantly increasing the cobalt hydroxide production. The treatment rate was also increased to 2.43 Mt/a of run-of-mine (ROM).

The upgrade involved the addition of rectifier transformers to the Phase I circuit, the addition of mixer-settlers to the Phase II circuit, and the installation of an additional crud treatment plant and copper EW plant.

The overall process circuit was redesigned to ensure increased production and improved metal recoveries.

Similarly for the first two-phases of the project, the redesigned process route was defined by SENET, in conjunction with Miller Metallurgical Services (MMS), and the plant redesign and layout were developed by SENET engineers and designers.

