Group - IPS
Industrial Projects Services

www.group-ips.com

Water evacuation

Moteurs Moës, Republic of Congo, 04/2011 - 09/2011

PRIMARY | PROJECT PREPARATION

Principal project data

River drop: 96 m

Flow: 42 476 m^3/s

The Inga Dams, located in western Democratic Republic of the Congo 1300 km southwest of Kinshasa, are hydroelectric dams on the largest waterfalls in the world, Inga Falls. Here the Congo River drops 96 meters and has an average flow of 42 476 m^3/s.

ABC and Moteur Moës together with IPS, are responsible for the rehabilitation of the water evacuation of the shafts. These shafts are used as security to avoid flooding of the dam. There are 7 shaft: 1 in Inga 1 and 6 in Inga 2. In each, 3 to 5 water or mud pumps are placed at the bottom level. These pumps as well as the piping, the instrumentation and the whole electric and automation system needed to be replaced.

Revamping and improvement of the drained water evacuation of Inga 1 and 2 :

- Hydraulic calculations to improve the current evacuation system
- Replacement of the old pumps by new water and mud pumps
- Revamping of the water shafts (piping, instrumentations, automation)

Scope IPS

Project Preparation

- PDS
- PDF
- Engineering (Stability, automation, electicity...
- Flow Sheet
- Layout

Project Realization

- P&ID
- Electricity and automation
- Detailed Layout
- Process sizing
- Equipment list

IPS operational unit(s)

- IAPS Tunisia