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Provision of Production Monitoring System (CCTV)

BARRICK GOLD | Pascua (CHILE) | Lama (ARGENTINA)

ENVIRONMENT

Pascua – Lama is the world's first binational mining project and consists of developing an open-pit gold mine, located more than 4,000 meters above sea level on the Chilean-Argentine border. The project in charge of the mining company Barrick Gold, based in Toronto, Canada, which involves Chile and Argentina and which consists of exploiting an open-pit mine from which gold will be extracted mainly, as well as silver, copper and others minerals, at 4,500 meters above sea level in border territory. In Chile, it is located in the Atacama Region, specifically in the Huasco province, while in Argentina, in Valle de Lama, San Juan.

| EXECUTION | 16 WEEKS | WORK TEAM | 4 ENGINEER/TECHINICIAN | COMPOSITION | 35% Labor / 50% Materials / 15% Ing. y Soporte DETAIL | 2010 |

SYSTEM DESCRIPTION

The CCTV project consists of a surveillance network with day and night, internal, external and infrared cameras for critical security areas, in color and in black and white. All models of cameras, enclosure, wall and ceiling mount, keyboard are from the leading brand in Surveillance System "Pelco" from Schneider Electric.

The camera models selected for this project are; Fixed Cameras "IXSODN" and PTZ Dome Cameras "SD4E23-PG-0-X.

The system equipment includes: "PTZ" camera position control mechanisms and "ZOOM" approach control (Keyboard), communication equipment (switches), signal recorders (servers), display elements (42" monitors). The "Digital Sentry" software is responsible for managing the video recording on the servers, while the software installed on the "Control Point" workstations will be the interface with the operator, allowing the control of the PTZ cameras and the consultation of live and recorded video.

All the cabling between the cameras and the server will be installed with optical fiber due to the distance between them.

The management and storage of the video signals are in charge of servers and "DELL" workstations and with the help of a Matrox Extio "KVM", the video signals are multiplexed towards the monitors.

The monitoring room will be made up of 3 42" LCD / LED monitors in which any camera in the system can be viewed and through a PTZ Keyboard the PTZ Dome cameras will be controlled

VISUALIZACIÓN
3 — M42" - PMCL542FL
1 — KVM - Matrox F1420
1 — KBD - KBD300A

ALMACENAMIENTO
2 — PowerEdge R310
2 — PowerVault 1200

COMUNICACIÓN
5 — SFO - PConnect 6224F
5 — KBE - DIO B48

SISTEMA DE VIGILANCIA
5 — CAMARA FIJA - IXSODN
13 — PTZ - SD4E23-PG-0-X