



Mining Control Rooms Upgrade



Newmont™

Upgrade of Newmont's Boddington Mine main control room and DCS control room

Newmont is the world's largest gold mining company. The Boddington mine, located in Western Australia, began commercial production in 2009. Today, it's one of Australia's largest producing gold mines.

Project Scope

CADwalk Critical Rooms was engaged to upgrade the mine's main control room and distributed control system (DCS) control room.

Located near the mill, both control rooms were being impacted by the harsh environment with noise, vibrations and dust becoming an issue.

Improving lighting, furniture and AV equipment were also identified as key to enhancing working conditions for Newmont operators.



Main Control Room

The main control is positioned at the top of the plant above the main mill. CADwalk was tasked with undertaking a complete revamp of the control room to be ergonomically and acoustically sound.

CADwalk technicians decommissioned old console furniture which was replaced with ergonomically designed, sit-stand consoles that provided sufficient leg room, flexible working positions and useable desk space.

To address noise and vibration issues, a new raised floor and drop ceiling installed. The ceiling was integrated with dimmable LED lighting and acoustic ceiling panels.

CADwalk also upgraded and standardised AV equipment. This included a new video wall with connections to several sources that were to be housed within a central cupboard between the two operator consoles.

The control room was located up seven flights of stairs, so CADwalk coordinated equipment to be craned to the landing nearest to the control room.

DCS Control Room

The DCS control room was re-orientated, requiring all underfloor cabling to be re-terminated prior to installation of a new raised floor and equipment rack. These works were carried out without impacting the equipment and no down time.

New operator consoles and a video wall were also commissioned.

Benefits

Operators now have an ergonomically improved control room, with sit-stand consoles, that provides a safer working environment.

The improved lighting the main control room has made a significant difference for operators, simulating day light during night shift, and providing personal adjustment for individual operators at each console.

Noise from the mill has been greatly reduced and sit-stand consoles have improved the way that operators work.



Get it right the first time

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