

Hydroelectric Complex “El Chocón”



BOSCH

Invented for life

Industry:

Industrial

End User:

Hydroelectric Complex "El Chocón"

The Hydroelectric Complex consists of the El Chocón and the Arroyito Hydroelectric Power Plants. It is located in the region Comahue which is formed by the Argentine provinces of Río Negro and Neuquén as well as the southern area of the Buenos Aires and La Pampa provinces. El Chocón is situated at the Limay River about 80 km upstream of its confluence with the Neuquén River. The Arroyito reservoir is located downstream the El Chocón. The Hydroelectric Power Plant El Chocón (H.E.C.S.A) is a company whose main aim is generating electricity through the exploitation of waterfalls.



Business Objective:

The main objective was to improve the control module which includes visualizing critic parts of the dam and increasing the efficiency through control. For those reasons the hydroelectric “El Chocón” decided to improve its video system. The idea was to maintain the control of the reservoir levels, the passenger traffic and the surrounding of the building.

High quality images, improving the internal board and the different areas of the reservoir control were also important aspects. For this project, the reservoir turned to the company UNITEC for its recognized trajectory in the installation of video security systems in companies and correctional facilities.

Solution:

For this project, the reservoir turned to the company UNITEC for its successful installations of video security systems in companies and correctional facilities.

In the Arroyito dam, mobile Dome Cameras 200 Series for interior and 300 Series for exterior as well as fixed Dinion Cameras were installed. In the video room LCD monitors, a joystick keypad for the Dome Cameras and a DIVAR MR were implemented.

The Divar MR Control Center provides complete remote management, including live viewing and control, playback and remote alarm notification. The whole system of Arroyito dam can be remotely controlled and monitored through a link installed in the reservoir “El Chocón” which is located a few kilometres away. The Divar MR is a complete CCTV management solution.

Result:

The system is already working and the reservoir operators can control all the facilities activities to prevent all types of unexpected events. In addition, the new system allows controlling the water level, possible intruders’ access and to communicate emergency signs without leaving the control room.

Additionally, the efficient MPEG-4 compression of the Divar MR reduces the necessary band width and the storage requirements. As a result, more details can be stored and it is possible to extend the retention periods. That is one reason why the system also reduces the total storage costs.

Installed by:

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