

Planta Luperox



BOSCH

Invented for life

Industry:

Industrial

End User:

Planta Luperox

Arkema is a world-class producer of industrial chemicals, including acrylics, PMMA, thiochemicals, fluorochemicals, and hydrogen peroxide and of performance products like technical polymers, specialty chemical organic peroxides and additives. The subsidiary Arkema Mexico, S.A. de C.V. imports and markets all Arkema products both, in Mexico and across Central America. Luperox Iniciadores S.A. de C.V., a wholly-owned Arkema subsidiary, produces and markets organic peroxides.

Business Objective:

The principal objective was to safeguard the personnel, the environment and the installations as peroxides act as oxidant substances. In contact with combustible material, they can produce fire and explosions. For this reason, the production of organic peroxides in the Luperox plant follows a strict process to maintain the security and the protection of the location. These materials go through a chemical stage, in an isolated area called "reaction area", during which all the operations must be monitored without exposing the staff.

Another important process which must be monitored is the separation of the product from water. For this process, it is necessary to supervise the levels of both substances.

Solution:

Bosch cameras for explosive environments (Model EX72MNX) were installed in the areas which require constant monitoring. The EX72MNX is an explosion-protected camera with performance optics for effective surveillance in hazardous locations such as chemical facilities.

The infrared LED that integrates the EX72MNX captures images in low or no light conditions and permits process supervision 24 hours per day. It is vital to mention that some of the cameras were mounted in special supports over open tanks.



Result:

The installed cameras over the open tanks allow the visualization of the content and the supervision of the filling level.

The images from the camera go through a peephole and travel to a drain to supervise the correct development of the process.

The images from the EX72MNX, support a safe and reliable operation with constant monitoring and protection of staff, installations and the environment.

Installed by:

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