Implementation of a “Process” CCTV System for Operability and Safety

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ABSTRACT

This paper reviews the implementation and development of a process CCTV system for a large refinery as part of a multi-unit upgrade project.

One of the justifications for the addition of the system was the safety aspect that CCTV could add to unit operations. Operators in the main and local control rooms are able to have a view of the units at all times and, especially, where there is an upset condition have a view of the unit that may be hazardous for an operator to enter.

CCTV cameras were included at the entrances to Field Operator Shelters (local control buildings) with the cameras aimed away from the buildings. This give the local operators in the FOS’s an opportunity to survey the area outside the building before exiting.

This paper will review the equipment details, discuss an overall system block diagram, and discuss how the cameras were strategically positioned to give the best possible views of the unit.