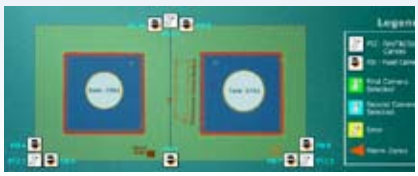
case study.

LPG Tank Farm Security System

An intelligent perimeter surveillance system secures a Liquefied Petroleum Gas (LPG) Storage Facility operated by one of the largest U.S. energy providers.

LPG Tank Farm,
United States



CHALLENGE

Protect a vital business asset by preventing unauthorized entry and criminal tampering in a security system that will continually monitor the site and generate timely local and remote intrusion alarms.

SOLUTION

Digital video cameras create a virtual perimeter around the underground tank area and vital structures on the site.

High-resolution day/night cameras are installed on utility poles around the tank farm, supplemented by Pan/Tilt/Zoom (PTZ) cameras at regular intervals. Intelligent video software transforms the video cameras into an intrusion detection system, analyzing the video feed for changes that may signal a security breach. Company personnel are automatically notified of a problem and use the PTZ cameras to investigate and determine the appropriate response.

Cameras are connected to **rvspro™** digital video servers located in an on-site building that is also protected by the virtual perimeter. Servers are connected to the energy provider's network for remote viewing of both live and archived video and for remote control of PTZ cameras.

The use of day/night cameras and software-based video enhancement delivers a system that works in all light conditions and in bad weather, with the industry's lowest rate of false alarms.

Rule-based **praesidium®** intelligent video software automatically deploys audio and visual alarms, processes live video feeds, and creates a digital video archive. Alarms are classified by type to facilitate later analysis. The system is designed to simultaneously detect multiple events and process each event in accordance with user-defined parameters.

Archived video clips are fully searchable and can be annotated by the operator. This flexible, expandable system includes a customized Graphical User Interface (GUI) for video viewing and PTZ camera control.

BENEFIT

The tank farm is continually and reliably monitored and the automatic alarm notification and classification allow the energy provider to react quickly to a potential threat. The client can monitor remote area activities including deliveries, personnel response, and operational status.

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