

Synectics Secures Yemen Gas Pipeline

Hazardous area CCTV surveillance manufacturer Synectics, has won the contract to supply CCTV for the new Yemen Gas Pipeline by Amec Spie.

The pipeline will supply feed gas at a rate of 1.1 billion cubic feet per day to the LNG plant. This pipeline will be 320 km in length with a 38-inch diameter and will be buried over its entire length. The highest point of the pipeline is 1,705 m above sea level. The pipeline will run from the processing centres at Al-Kamil Processing Unit (KPU) to the liquefaction plant at Balhaf on the Gulf of Aden. The main pipeline capacity has been designed for a two-train project.

Synectics will be supplying its innovative COEX™ MECH/4 TriMode camera stations complete with Wash, Wipe and Presets. The MECH/4 TriMode camera station comprises of a color / mono camera and a microbolometer thermal imager. This camera station was chosen as it provides complete surveillance under any conditions. The color camera will monitor the block valve stations and vent areas during daytime, switching to black / white mode during dusk and the thermal camera will be activated for night-time monitoring.

Passive Infra-Red (PIR) will be installed to provide additional security at each block valve station and vent area to identify any incursions. An Infra-Red (IR) lamp will be attached to each camera station and mounted on 12 m towers. The IR lamp will be activated on alarm conditions to provide additional viewing capability at night utilizing the mono option of the camera. These lamps can also be activated under manual operation.



Predetermined presets (specified by the end-user Yemen LNG Company Ltd) will be activated under alarm conditions and trigger the camera to switch to the area under intrusion. The Synectics CCTV system will also link to door alarms located at each block valve station and vent area.

The Synectics control system which will be located at Balhaf has been designed to be as automatic as possible, making full use of alarm data. All alarms will be logged at the control station, manual control and selection can be requested by the operator whenever required. All alarms will be recorded utilizing a network video recorder (NVR) and software which will be situated in a separate location. Built in redundancy will be provided for the control system ensuring no loss of service.

All power and data will be supplied via an optical ethernet system.

PROJECT DETAILS

Client

Amec Spie

Location

Yemen

For further information on the products, services and systems offered by Synectics visit synecticsglobal.com.

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Synectics designs integrated end-to-end surveillance control systems for the world's most demanding security environments. We excel at complex projects that require innovative, tailored solutions with high reliability and flexibility, specifically for casinos, oil and gas, marine, public space, banking, transport and critical infrastructure applications. Synectics' Systems division is part of Synectics plc, a global leader in advanced surveillance, security and integration technologies and services.

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