

## SETEL POWERLINE INSTALLATION CASE STUDY ARETEA – DSME KOREA

MARCH 2015



### Vessel CCTV Implementation

#### Requirement

To deliver a vessel wide CCTV Solution over the PowerLine Communications (PLC) Network, including, 5 Marine Grade, Explosion Proof CCTV camera units, Network Video Recorder and monitoring software platform.

#### Method

2 Engineers provisioned the IP Network within 5 hours and installed the CCTV Cameras in 1 Day with no interruption to vessel daily operations.

#### Location

The DSME Shipyard in Korea, where the new build vessel had just completed her sea trials prior to handover to the owner.

#### Hardware

Cameras were pre-delivered with fixtures and fittings installed in advance by the vessel crew. PLC Hardware travelled with the install team.

#### Explosion-Proof Marine Grade Cameras

- 3 Megapixel high resolution colour/mon camera
- Vari-focal zoom lens
- ATEX certification II 2 G Ex d IIC T6
- Weatherproof protection standard IP66
- Manufactured from stainless steel AISI 316 L



#### Software

The CCTV camera network is hosted on a web-based monitoring platform and on a 1TB Network Video Recorder. This allows viewing of live and recorded images either on board or from any on-shore location via the vessel's satellite connection.

#### Vessel Details

Vessel's Name:	ARETEA
Date Delivered:	31 March 2015
Builder:	DSME - Daewoo Heavy Industries Ltd
	
Flag:	Hellenic
Port of Registry:	Chios
Type of Vessel:	Product / Oil Tanker
Type of Hull:	Double Hull
Class:	Lloyd's Register
Length O.A. (m):	249,9
Breadth (m):	44
Draft (m):	15,023

#### Resources Employed

Vessel Master Unit*	1
Deck Connection Unit*	9
Network Extension Unit*	1
Cameras	5
Network Established	5 Hours
Install Complete	1 Day
Install Team	2 Pax

\* NB: Setel PowerLine datasheets are available on request.

#### Summary

The new build vessel Aretea was provided with a full CCTV recording and monitoring solution. This incorporated high grade CCTV equipment provisioned onto the Setel PowerLine IP network.

Another example of Setel PowerLine providing the smartships of tomorrow...today!