

HERNIS news letter

NOVEMBER 2000



Malaysia

Malaysia is important to the world energy markets because of its 81,7 trillion cubic feet of natural gas reserves. They accounted for approximately 19% of total world liquefied natural gas (LNG) exports in 1997.

The RESAK project in Malaysia is a development consisting of two offshore platforms namely Resak Drilling Platform A (RDP-A), Resak Central Production Platform (RCPP), the Resak Onshore Gas terminal (Resak OGT) and 135km export pipeline.

The RCPP accommodates all processing facilities, compression (future), pumping, power generations, utilities, living quarters and helideck.

The RDP-A serves as a drilling platform and riser platform. The Resak OGT comprises of slugcatcher, separators and metering station.

The project is designed to handle 400 million cubic feet per day (Mmcf/d) of gas. RCPP is supported by an eight legged structure while RDP-A is supported by a four legged structure. Gas will be drilled and produced from RDP-A, processed at RCPP and evacuated through pipeline to Resak OGT and then to a nearby Gas processing plant.

The RESAK project is the second largest project HERNIS has entered into. Both the on- and offshore part have a HERNIS 400 control system installed with a modbus interface to the Data Control System (DCS) delivered by Honeywell. This allows for a videoconference between the offshore and onshore project. A combination of 2M/bits and 128 K/bits links are being used between the installations for the running of combined real time video from the integrated supervising system.

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*Editor:
Tove Hardaway*

New contracts

For the HERNIS 200 system:

- Pfizer Pharmaceutical Plant
- Ugland / Pusnes, Retrofit, "Torinita" Shuttle tanker
- Yang Ming, Hyundai H.I. H1339/40, 2 x Container vessels
- Maersk / Volkswerft NB 436/437 Cable layers
- Brunei Shipping Corp./ Mitsubishi Heavy Ind. Sno 2163, LNG carrier
- I.P.S. / Toyo Eng., "MBOX Project"
- Shell UK, Flaire CCTV, "Terne Alpha" Platform

For the HERNIS 250 system:

- Petronas Tankers / Mitsubishi Heavy Ind. Snr. 2165
- Stena Drilling / Hitec "Stena Don", Drilling

For the HERNIS 400 system:

- Celebrity Cruises 5 x Retrofit (Zenit / Horizon / Mercuri / Century / Galaxy)
- NEC System Integration & Constr./ "Malampaya" Platform
- Stena Drilling / Siemens "Stena Don", Topside
- P&O, Mitsubishi Heavy I H1068 Ro-Pax

Crane TV:

- "Visund"

S-9 Camera Housing

The S-9 housing is the most suitable and cost efficient camera housing for the marine environment on the market today. It is especially designed for the marine environment with its compact size, easy installation and very long lifetime (more than 20 years). The camera station is hooked-up to either one of the HERNIS CCTV matrixes by means of HERNIS Multicore cable (P/N 025122) and powered from the central cabinet. The camera station is very suitable for any outdoor application as well as for machine rooms.

The housing is designed for cameras with fixed lenses due to its size. It can also be used in any normal weather conditions (-40oC to +50oC) and due to its electro polished finish it is very suitable also for the tropical climate.



*S-9 Camera
Housing*



ClassNK Certificate

HERNIS are proud to announce that we have received the ClassNK Certificate for CCTV Camera-stations for Hazardous areas.

The application has been treated and

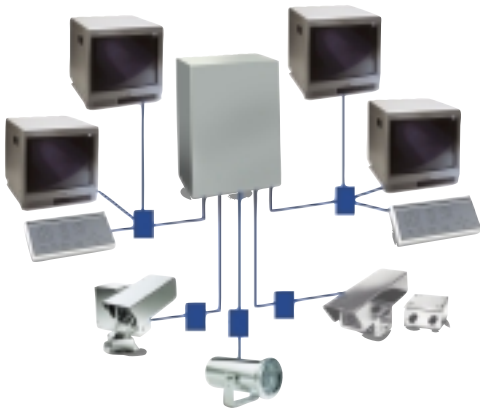
approved in cooperation between ClassNK in Japan and Norway. Being the only CCTV manufacturer in the world that has the ClassNK approval for camerastations for hazardous areas, HERNIS again prove that they are the leading company in their field continuously to focusing on safety onboard ships in terms of CCTV.

The products delivered by HERNIS has an expected lifespan of more than 20 years and the equipment is virtually maintenance free.

The ClassNK Certificate has lifted HERNIS' product range at the Japanese market, and an increase in sales in Japan is expected over the next few years due to this approval.

New orders in Japan

Mitsubishi Heavy Industry (MHI) at Nagasaki Shipyard has recently purchased two new CCTV Systems from HERNIS to be used on the 135.000m³ LNG carrier for Brunei Shipping Corporation (Sno. 2163) and for the 137.100m³ LNG carrier for Petronas Tankers (Sno. 2165). The CCTV System for the Brunei LNG carrier is based on HERNIS 200 System while the Petronas Tankers LNG carrier is based on the advanced HERNIS 250 System. Cameras are installed for surveillance of the engine rooms, manifold areas and mooring deck. The LNG carrier for Petronas is the first vessel in a serie of four being built in Japan. MHI in Nagasaki has great experience with HERNIS CCTV systems installed at FPSOs owned by Shell.



HERNIS 200 System

This is the simple and effective CCTV system. The HERNIS 200 system can be configured for up to 16 cameras, 8 monitors and 4 keyboards. The operator can select and control any of the 16 cameras in the system and has an audio option for up to 16 microphones with individual sequence to the monitor, giving the operator flexible control. It is a centralised system with the complete control centre in one rack.

Resak Project, Factory Acceptance Test (FAT)

Hernis had the Factory Acceptance Test (FAT) for the Resak project (Front page) at the end of June. The FAT was combined with a training course for the visitors from Malaysia. Eight representatives from three companies attended: Offshore Industries (agent), SAPURA TX (customer) and Petronas Carigali (end user). The project manager Mr. Rozaini Mohamed from SAPURA and Head of Telecom Mr. Mohamad Sharif Osman from Petronas Carigali approved the FAT and the equipment. The FAT included a test run of every part implemented in the RESAK CCTV system, and the visitors seemed very impressed with the quality of the equipment. On top of all the technical information and demonstration, the delegation from Malaysia also visited parts of Norway. A trip to the famous tourist sightseeing area Kjerag was arranged. They also experienced a massive hailstorm on Midsummer Night, covering the ground making it look almost like winter again. The visit ended with a football match between Norway – Malaysia on a “packed stadium”



resulting in Norwegian victory. Everybody at Hernis hopes that the Malaysian visitors enjoyed their stay in Norway; the FAT, the RESAK equipment and the Norwegian culture.

Hernis Agent in Japan (marine) NIMAC Corp.

Nissho Iwai NIMAC Corporation started their cooperation with Hernis in 1996. NIMAC Corporation has offices in Tokyo, Osaka as well as Nagasaki, and work mainly towards the shipping industry. The company was founded in 1974 and is well known and respected for the service and quality they provide for the Japanese Shipping industry and for their export of quality Japanese marine equipment and systems overseas. They employ some 70 people. Mr. Kimiharu Sato is one of the persons at Nimac in charge of the CCTV systems supplied by Hernis Scan Systems, and Mr. Mikio Segawa is the President of the company. Nimac has during the last two years done a very good job for Hernis and has landed several contracts of great importance for Hernis.

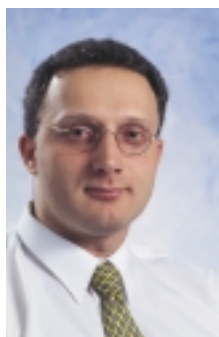


The Tokyo staff ...



... and the Osaka staff.

*Starting at the left we have:
Mohamad Rizal Khan (Sapura TX), Jeffrey Tee (Offshore Industries), Ir Jamaludin Hj. Takei (Petronas Carigali), Svein Gundersen (Hernis), Mohamad Sharif Osman (Petronas Carigali), Zaaron Mohd. Khalio (Petronas Carigali), Øystein Sandberg (Hernis), Khairul Nizam Ibrahim (Petronas Carigali), Roy Thorkeldsen (Hernis), Rozaini Mohamed (Sapura TX), Nazaruddin Ahmad Muzir (Sapura TX).*



*Area Sales Manager
Svein Gundersen*

Svein Gundersen Area Sales Manager - Asia

Born and raised in the sheltered community of Vennesla in the Southern Norway, Svein wanted to widen his horizon and moved to Iowa in the USA to study for his M.Sc./EE. When graduating in 1993 with near best grades, Svein moved on to doing his duties in the Norwegian Airforce. He then had a job in Oslo and stayed there for a year before succeeding with his application and landing a job at HERNIS Scan Systems in Arendal in December 1995. Svein started his career at HERNIS as Projects Manager, in charge of documentation and technical specifications and solutions. He then progressed to becoming the Area Sales Manager for Asia in December of 96. Svein loves the countries he travels to, and spend most of his vacations in the Asian countries. Svein is also an eager bowling and squash player, and is open for a challenging game with both agents and customers. He is engaged to be married to Termjit, and we are all anxious to hear the date of the big day....



*Area Sales Manager Per Arne Richardsen at the
Marintec China exhibition in Shanghai*

Marintec China '99

HERNIS Scan Systems AS exhibited at the Marintec China exhibition in Shanghai on the 30th November – 3rd December. It was a very good exhibition with approximately 650 companies from 28 countries exhibiting. HERNIS shared an area with all the members of the 17 Group of Norway. Visitors from several shipyards visited the stand for a demonstration of our CCTV system. Many of the customers had already experienced our equipment onboard their vessels who wanted an update on new technology, while others were new to the aspect of using CCTV onboard their vessels. All in all a very good exhibition with several opportunities being discussed and agreed upon.



*President Sotirios Kaminis and his Kaminco
Team at the AERION exhibition in Athens*

AERION'99 exhibition

The AERION'99 exhibition was the 4th International Natural Gas Exhibition in Athens and it turned out to become a positive surprise for both HERNIS and their agent in Hellas, Kaminco Overseas Inc. A lot of new customers made their way to our stand and several projects were discussed. Several large projects were mentioned and leads and contacts will be followed up to pursue news markets.

HERNIS Scan Systems AS manufactures CCTV (closed circuit television) systems for marine, offshore and petroleum related installations onshore. Established to produce CCTV systems for marine environments in 1982, the company is wholly owned by Vislink Plc., which is listed on the London Stock Exchange. HERNIS has appointed agents around the world.

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