



Singapore Chemical Plant

ExxonMobil Chemical's world-scale Singapore Chemical Plant on Jurong Island started operating July 3 2001. The highly integrated complex is now supplying petrochemical products to the marketplace in the Asia Pacific region. The grassroots US\$2 billion petrochemical facility has four plants designed to deliver a wide range of petrochemical products to customers. Its centrepiece is an 800,000-ton-per-year steam cracker, which produces ethylene, propylene and other products for several downstream chemical plants in and around Singapore.

The facility also features a 480,000-ton-per-year polyethylene plant, the largest single reactor plant of its type in the world, a 315,000-ton-per-year polypropylene plant, a 150,000-ton-per-year oxo alcohol plant and a 155-megawatt cogeneration unit that provides power to both the refinery and the chemical plant.

Over the coming months, the plant will complete additional, normal equipment testing and gradually achieve full processing

capability. The top priority at the facility is a safe operation.

"We are proud of our employees and contractors who have worked so hard in the design, construction and safe start-up of this complex," said Stan Tebbe, ExxonMobil Chemical's regional director, Asia Pasific.

"Every employee and contractor at the Singapore Chemical Plant is committed to safe ongoing operations." The project, worldwide in both execution and organization, had a work force that peaked at more than 7,400 people from 41 countries.

HERNIS Scan Systems AS has supplied a CCTV system for the harbour area of the chemical plant as well as an Incident TV system for the actual plant. The CCTV system was purchased through the M.W. Kellogg Brown & Root Company in US in close co-operation with our US agent, and the Incident TV was purchased and installed via our local agent in Singapore. HERNIS is proud to be present at places that so clearly evaluates people's lives and put the safety and security of their employees first.

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New contracts

For the HERNIS 200 system:

- Hyundai H.I/Elf/Amenam FSO Project
- Craige Int. Supplies/Marathon Oil UK Ltd/Brae Bravo
- Sphere Supply, Inc./Rig 134
- Maritime Pusnes AS/Knutsen OAS Shipping AS Project 77617/231030
- Nissho Iwai Deutschland/Tokyo Gas/KHI 1520
- National Oilwell/Chiles Coronado
- Iran Marine Industrial Company/Barge-SADRA FLB 124

For the HERNIS 250 system:

- Iranian Offshore&Eng./Maritime Ind. Services /Abouzar 1200 Pipelay vessel
- Abu Dhabi Gas Industries (GASCO), Ruwais Plant
- Mitsubishi Heavy Ind./H2169/Petronas LNG Carrier
- Samsung Heavy Ind./H1376-H1377/Golar Tanker
- Daewo SME/H2215/Golar LNG
- IZAR H 087/103/Knutsen OAS/2 x LNG Carrier
- IZAR H 319/Tapias/LNG Carrier
- IZAR H 321/Elcano/LNG Carrier
- Retrofit/Royal Australian Navy Westralia

The Shell Malampaya Project in the Philippines.

HERNIS Scan Systems have again been partner in supplying a large scale CCTV system for an offshore – onshore petrochemical Project. This time for the trailblazing Malampaya Deep Water Gas-to-Power project, which represents the largest and most significant industrial investment in the history of the Philippines.

NEC System Integration & Construction in Japan and Singapore were HERNIS' partners for the platform CCTV system, which consists of several high quality offshore manufactured camera stations (Ex285

For the HERNIS 400 system:

- Blohm + Voss/MEKO 200-South African Navy/4 x Corvettes
- Siemens/Norsk Hydro/Grane Field
- Mitsubishi Heavy Ind. H1069/P&O/Ro-Pax
- Abu Dhabi Gas Industries (GASCO), Ruwais Plant
- Samsung Engineering/Tabriz Petrochemical Plant/TPC ABS Project
- Maritime Tentech AS/BP Amoco/Valhall Injection Platform
- Qatar Liquefied Gas Comp.Ltd., NFB Upgrade
- ABB Offshore/Statoil/Kvitebjørn
- NESIC Singapore PTE LTD/Algeria Ourhoud Project
- Offshore Industries Sdn. Bhd./Malaysia Shipyard and Engineering/FAB of E11R-C Topsides

For the HERNIS 400 system with integrated sound:

- Samsung HI /H1405/SK Line/LNG Carrier

Crane TV:

- Statoil/Draupner
- Dolphin Well Service AS/Bideford Dolphin x 2
- Stålprodukter/Norsk Hydro/Heimdal
- Kenz Cranes/6 x CraneTV for Offshore use

camera stations) as well as the HERNIS 400 System. In the control room, 4 large scale 50" Plasma monitors are displaying images from all parts of the platform, making the operation and safety at the Platform more efficient. There is also a link to the on-shore plant for display of images from any camera station at the platform to the support-operators onshore.

For the land-based plant, HERNIS co-operated with Foster Wheeler, and yet another HERNIS 400 high quality control system was installed to maintain clear images from the production and safety at the plant. Again, HERNIS EX285 camera stations were installed at various locations at the plant.

Hernis Activity plan August to December 2001

Date	Venue, stand/booth no.	Date	Venue, stand/booth no.
✓ August 19th – 22nd:	Agent Seminar, Arendal	Oct. 30th – Nov.3rd:	KorMarine, Pusan
Sept. 4th –Sept.7th:	Offshore Europe, Aberdeen, Stand no 1087	October:	V.I.S Seminar, Japan
Oct. 2nd – 4th:	SIGTTO- Meeting, Bracknell, UK	During KorMarine:	V.I.S Seminar, Pusan
Oct. 24th – 26th:	SNAME, Florida	Nov. 13th – 17th:	Europort, Amsterdam
		Nov. 19th – 21st:	Service Training, Singapore

HERNIS Crane Camera Systems

This is the perfect solution for the Crane Operators. With the Crane Cameras hydraulic damper it provides a stable picture of all the “blind spots” previously hidden for the Crane operator. The camera is Exd certified for Zone 1 and 2 with high IP-rating and is especially constructed for the Marine & Offshore environment. Colour Camera and Monitor is being used to ensure best possible picture and by offering a selection of monitor sizes this equipment should suit any cabin. Additional camera for the winch is optional.



The versatile HERNIS Ex 290

The newest development within the explosion proof camera housings. This is a new “tiny” fixed camera housing, which is to be used in areas in which physical size is of the utmost importance. The camera housing is certified for zone 1 and 2 group IIC, and can be delivered with or without an integrated junction box.

With a few adjustments, the camera stations is transformed into an Ex 290 Sub Sea camera station especially developed for surveillance in the splash zone onboard the FPSO's.



Ex 290



Ex 290 Subsea

Agent Training Seminar in Arendal 20th – 22nd August 2001

With 12 agents from Europe and the Middle East present, the Training seminar turned out to be a great success. As a result of the feed back from the agents at previous seminars the seminar is now conducted over three days. The two day seminar did not give enough time to consult each other, discuss matters and build the bonds that are so necessary to secure a sale across boarders. Although it is a repetition for some of the agents that participated at the seminar in Indonesia earlier this year, they still claim that the time shared with our new agents, and the agents not present in Indonesia again made this seminar as valuable as always. The program is always tight on these seminars, and the evenings are planned for social arrangements, good food and a lot of talking. With shrimp trawling, river cruise, dinner on a remote island etc. the agents seemed to have a wonderful time during the late summer days in Arendal.



Agents from UK, France and Netherlands in conversation waiting for the trawl to fill up with shrimps.



Finance Director Odd Keilon Osmundsen Jr.

Odd Keilon Osmundsen Jr. Finance Director

Odd Keilon was employed as our Finance Manager in 1999. He quickly advanced to becoming Finance Director and a member of the Board of Directors. Odd Keilon has been greeted well by many of our customers, although he is vigorously working on the task of getting our customers to pay the invoice in time. Prior to his career at HERNIS, Odd Keilon held high positions within companies such as Economy Controller at Oslo Energy, Economy Manager / Managing Director at Fjord Boats and Managing Director at Marine Production. He has a Master Education within Industrial Engineering and Management.

Odd Keilon loves high speed, diving and the wind in his hair, and has a selection consisting of fast cars, motorbike and boat. He loves hunting, and hunt moose and deer in the autumn, and bad debtors all year around. Odd Keilon is married to Martha, and they have a lovely daughter, Lill Magrett, aged 6 years.

Seminar for Norwegian Offshore Operators

As a tradition, HERNIS conducts a seminar for Norwegian Offshore Operators early June each year. This year the seminar was held at our premises on the 15th June. A lot of operators from the Offshore and LNG vessel markets were present, and new inventions and future solutions were promoted and discussed. HERNIS enjoy this venue very much as it allows us to get a close insight into what is actually needed for the different installations. We also find that the Operators enjoy this venue in that it allows them to air their visions for the future need for Visual Systems, and that this creates a close co-operation between our companies.

HERNIS' new agent in the UK – Silver Fox and Associates Ltd

Ever since Geedon Marine was sold to another company and terminated their agent agreement with HERNIS early 2000, the UK area has laid slightly dormant, awaiting new governmental rules and regulation. However, in October 2000 Barry Rising contacted HERNIS showing interest in the company and its products. Ever since, the UK market seems to have awakened, and there is a lot happening, which we thank our new agent for.

Through diligent work, and an already established network, Silver Fox – owned by Barry and Anne Rising - has surely opened the eyes of the Brit's to the safety and security a reliable CCTV system can add to onshore and offshore installations.

Having finished their first Agent Training Course at the HERNIS' premises in August, we are certain there will be a long lasting relationship between Silver Fox and HERNIS.



UK agents Barry and Anne Rising

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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