

NEWSLETTER



ABS Approves of ICE's Generic FPSO Hull Design

In December, **ICE** was awarded an Approval in Principle (AIP) by the American Bureau of Shipping (ABS) for its latest generic floating production storage and offloading (FPSO) hull design, designated the G-1600-SM/W. The AIP means that experts at ABS' world headquarter in Houston have reviewed critical plans and calculations of the vessel and have found that they comply with the applicable rules and regulations and good practise.

The Generic FPSO Hull design benefits from **ICE's** extensive experience from more than 40 FPSO projects, including new construction, conversions and various technical studies for leading FPSO operators. By performing extensive pre-award hull design work adaptable to a range of topside and mooring configurations, **ICE** offers a robust



design that can rapidly be modified to suit specific field requirements, saving customers as much as 6 – 8 months of post-award design time.

Commenting on the AIP award, **Sorin Brazdis, Managing Director of ICE's** subsidiary ICEPRONAV Engineering SRL, says: "After several years with

little activity we now see an upswing in the FPSO market with many new projects coming onstream. Our generic FPSO designs clearly meet a need in the market and we have just won the first contract to adapt our latest generic design to meet the requirements of an oil major".

Silverstream and ICE Cooperating on Retrofit Design

ICE is pleased to announce that it has entered into a framework agreement with Silverstream Technologies for worldwide installation design services for retrofitting of the Silverstream® System, the market leading patented air lubrication system designed for reduction of friction between ships' hulls and seawater. London-based Silverstream Technologies is a founding member of the Global Industry Alliance for combating pollution within shipping. The Silverstream® System has been proven to deliver substantial fuel savings and an associated reduction in GHG emissions.

Commenting on the new cooperation agreement, **Steinar Draegebo, ICE Group's Chairman & Chief Executive**, said: "**ICE** has for some years been designing retrofit installation of ballast water treatment (BWT) and

exhaust gas cleaning (EGC) systems into existing ships; we routinely send employees around the world to undertake laser scanning onboard ships to ensure we can design an installation that can be done as quickly and cost-effectively as possible. We are honoured to be selected by Silverstream Technologies to extend our retrofit design activity to help the many shipowners around the world who

are keen to reduce fuel costs and help combat pollution using the Silverstream® System. We expect this to be a major retrofit market opportunity within the near future as the industry becomes aware of the substantial benefits of the technology, with the aim that the Silverstream® System is routinely included in new ships when they are being built".



Picture of the Silverstream team visiting ICE's Galati office last year.

Serving Customers World-wide

Thanks to extensive use of video conferencing and state-of-the-art IT technology, **ICE** is usually able to service its international customers remotely from its own offices. That keeps travel costs down and makes the best use of **ICE's** modern facilities and in-house pool of expertise. However, sometimes it is necessary to travel to where customers are located, to inspect a ship or platform, to meet new customers or to attend critical project meetings. Thus, **ICE** employees last year visited customers in more than 20 countries around the world, and already in 2020 ICE teams have been active in Germany, Italy, Nigeria, Singapore and the UK.

The pictures show two vessels that were inspected by experts from **ICE** last month, namely an LNG carrier at anchor in Singapore and a Nigerian naval vessel in dry-dock in Lagos.



FROM OUR PROJECT PORTFOLIO: FPSO CONVERSION (GIMBOA FPSO)

Scope of Work:

Basic design including structural analyses and Class approvals, detail engineering and shipyard troubleshooting assistance for conversion of a VLCC to an FPSO for service offshore Angola.

Client: Saipem/Moss Maritime

Shipyard: Drydocks World Dubai, UAE

Owner/Operator: Saipem

Year: 2006 -07



Image Courtesy: www.shipspotting.com



ENGINEERING CERTAINTY

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With a 50-year track record and an annual capacity of 700,000 professional engineering man-hours, the International Contract Engineering (ICE) Group is Europe's largest independent ship design consultancy. We provide high-calibre multi-discipline design services to yards and owners in the commercial shipping, defence and offshore energy industries, ranging from conceptual studies and Class drawings to detail design and production information. We cover a full range of naval architecture and marine engineering disciplines such as hydrodynamics, structural, mechanical, piping, electrical, instrumentation, outfit and HVAC. Our experience includes gas carriers, passenger vessels, navy and coast guard ships, chemical tankers, drill ships, FSO/FPSOs and a range of other vessels. We also have available proprietary designs that can be adapted to clients' requirements.

With our head office in the Isle of Man and our engineering facilities in Romania and Croatia, we provide high quality design and engineering at very competitive prices.