Converted Trading Tanker (VLCC) To FPSO
Contents

• Introduction
• Safety
• Vessel Selection
• Size
• Scope of Conversion
Introduction - VLCC

Very Large Crude Carrier

*Very Large Crude Carrier*
Safety

- Country Regulations
- Class
- IMO
- Flag State
Vessel Selection

- Client requirements
- Market conditions
- Vessel’s availability
- Vessel condition
Example Tanker

Stena Concordia

- High Specification
- Universe Tankship Design
- Thick Steel
- Maintenance
- Availability
Stena Concordia Class

Principal Dimensions

Length: 337 metres
Depth: 27 metres
Breadth: 55 metres
Draft: 21 metres
Dead-weight: 273,605 tonnes
Gross Tonnage: 132,206
Net Tonnage: 101,322
VLCC Size Comparison
More VLCC Size Comparison

Nimitz Class Aircraft Carrier
317 x 41 (333 x 77)

Channel Car Ferry
130 x 20

Terra Nova
277 x 46

Concordia Class
337 x 55
Cargo Tanks Details Example

<table>
<thead>
<tr>
<th>Cargo tanks (100% m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tank No</strong></td>
</tr>
<tr>
<td>Center tanks</td>
</tr>
<tr>
<td>Wing tanks</td>
</tr>
</tbody>
</table>

**Total cargo volume: 329.845 m³**

1) Water ballast: Total 37397 m³ incl for and aft peaktanks
Main Deck
Number 3 Centre Tanks
Stena Conductor
Stena Constellation
Stena Convoy
Stena Concordia Main Deck
Stena Concordia

Bulbous Nose Views
Tanker to FPSO Conversion

Ships Systems Removal
Tanker to FPSO Conversion cont’d

Ships Additional Steelwork
Ships Additional Equipment
Tanker to FPSO Conversion cont’d

Ships Additional Equipment
Tanker to FPSO Conversion cont’d

Ships Modules
Tanker to FPSO Conversion cont’d

Ships Module Integration
Example Concordia Class Conversion

Petrobras P37
Converted Trading Tanker (VLCC) To FPSO

Thank You
Contacts

For further information on our designs and services please contact:

**Singapore Office:**
39, Pandan Road, Singapore, 609281
Tel.: +65 91093201
    +65 68539106

**Malaysia Office:**
11, Jalan 14/2, Taman Tar, Ampang, Salangor, Kuala Lumpur, 68000
Tel.: +60 342665601
Mob.: +60 123210824
    +60 178810807

**Dubai Office:**
Jumeirah Lake Towers, P.O. Box: 643593, Cluster C, Goldcrest Executive Tower Office 706, Dubai, UAE.
Tel.: +971 4 447 0897
Fax: +971 4 447 0896
Mob.: +971 567451923
(Main Company Contact)

**Irvine Engineering Pte Ltd - Registered Address:**
60 Paya Lebar Road, #08-43 Paya Lebar Square, Singapore, 409051
Tel.: +65 68539106

enquiries@irvineeng.com