Winterization of Offshore Facilities

Exploring cost effective solutions for long-term operational efficiency

Two day training course: Wednesday 4 - Thursday 5 February 2015, Bonhill House, London

✓ Prioritise winterization considerations for your offshore unit
✓ Reduce long-term risk through weather forecasting and modelling
✓ Ensure guaranteed systems functionality for a safe working environment
✓ Expert advice on current winterization solutions to apply to future offshore production facilities
✓ Assess energy efficient solutions to protect surface areas exposed to the elements

Your expert speakers include:

- Wim Jolles - JOLMAR CONSULT
- Frederik Major - SEVAN MARINE
- Steven Sawhill - DNV GL
- Joar Dalheim PhD - LLOYD’S REGISTER CONSULTING
- Helge Tangen - NORWEGIAN METEOROLOGICAL INSTITUTE
- Trond Spande - GMC ELEKTRO AS
- Manuel Hof - HYDREX NV
- Helene Lunde - INOCEAN ENGINEERING AS
- Sten Wärnfeldt - RADAR-TECHNOLOGY
- David Champneys - BOUSTEAD INTERNATIONAL HEATERS
- Peter Baen - THERMON
- Andreas Dahl - ONECO SOLUTIONS AS

Interactive features include:

- Highlight your area of expertise and flag key issues for discussion
- Receive expert guidance on meeting DNV GL’s OS-A201 Winterization for Cold Climate Operations
- Identify your winterization priorities for a semi-submersible drilling unit

For the latest information and to register, visit: www.ibcenergy.com/winterization
Call the registration hotline on: +44 (0)20 7017 5518 or email: energycustserv@informa.com

NEW! Download the documentation electronically pre-seminar. View the documentation on your electronic device at the seminar
Day One: Wednesday 4 February 2015

08.30 Registration and coffee
09.00 Chairman’s welcome
Wim Jolles, Owner, Director of European Operations, JOLMAR CONSULT
09.15 Objective generation
Attendees will highlight their area of expertise and flag key issues to be discussed at the seminar

Regulatory climate for offshore rig winterization

09.25 What is the winterization regulatory environment for the Arctic?
• Current snapshot of DNV GL’s OS-A201 Winterization for Cold Climate Operations
• Focusing on the special needs of the offshore sector
• Improving the efficiency and flexibility of winterization measures
• Increased collaboration between owner and designer to fulfil owner requirements
Steven Sawhill, Principal Consultant, DNV GL

Identify winterization levels through weather forecasting

10.05 Reducing long-term risks through forecasting extreme temperatures
• Modelling extreme weather according to the Arctic region you operate in
• Predicting and managing seasonal fluctuations and varying weather windows
• Current and future forecasting technology developments
Helge Tangen, Regional Director, NORWEGIAN METEOROLOGICAL INSTITUTE

Preparing offshore facilities for sub-zero operations

11.10 What factors do I need to consider to equip my offshore facility to withstand Arctic conditions?
Using the case study of a semi-submersible drilling unit, assess how to meet the following winterization requirements:
• Location
• Length of operations
• Potential weather patterns to determine the optimum design for this rig
Steven Sawhill, Principal Consultant, DNV GL

12.10 Lunch

Prioritising winterization requirements

13.10 What are my winterization priorities in relation to the surrounding environmental conditions and safe working conditions?
• Evaluate which operational systems will be most affected
• Assess winterization levels by region
• Find out what winterization requirements are necessary for each engineering system
• Understand the technology required to ensure continued functionality of operations systems

Safe winterization designs for offshore production facilities

14.10 Winterization challenges for FPSOs and solutions to overcome them
• Examples from platform construction
• Design considerations for operation in cold climates with polar nights
• Hull design for operation in severe ice conditions
Fredrik Major, CBDO, SEVAN MARINE

14.50 Ensuring optimum corrosion protection through effective coatings
• Protect the exterior surface from extreme weather conditions
• Limit the surface area exposed to icing
• Coatings and surface treatments to protect structures from corrosion effects
• Knowing what doesn’t work
Manuel Hof, Production Executive, HYDREX NV

15.30 Afternoon coffee

15.50 Safe winterization designs to reduce accidents, fire and explosion risks
• Partially vs. fully enclosed platforms
• Comparison of platform designs and associated risks
• Assess the working environment risks and the type of operations to be completed
• Reduce build-up of flammable gases in enclosed areas: gas detection and ventilation options
Joar Dalheim PhD, Vice President Technology, LLOYD’S REGISTER CONSULTING

Winterization assessment groups

16.10 Split into groups to address the following winterization challenges:

1. Meeting standards: DNV GL’s OS-A201
2. Geographical location, length of operations and the effect of polar lows: what do these factors mean for weather prediction, personnel and safe systems operation?
3. Partially or fully-enclosed offshore production facilities: weighing up the potential for gas build-up and explosions
4. Identifying the effects of harsh environments on personnel as well as logistics: hazid and hazop

17.15 Assessment group feedback

17.35 Close of day one and networking drinks

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Day Two: Thursday 5 February 2015

08.30  Morning coffee

09.00  Chairman’s welcome  
Wim Jolles, Owner, Director of European Operations, JOLMAR CONSULT

Rig integrity, maintenance and HSE

09.15  INTERACTIVE WORKSHOP  
Meeting the winterization notations for HSE and personnel protection  
Take into account DNV GL’s OS-A201 to obtain a safe working environment and consider best practices for rig maintenance  
- Energy efficient solutions for maintenance  
- Methods of documenting solutions  
- Anti-icing and de-icing solutions  
- Emergency, Evacuation and Rescue (EER): ensuring full accessibility to walkways, escape systems and functionality of communications systems  
- Work gear, gloves and safety training for all personnel on rigs  
Steven Sawhill, Principal Consultant, DNV GL  
Trond Spande, Product & Business Development Manager, Winterization, GMC ELEKTRO AS

11.15  Coffee and networking break

11.45  Balancing the winterization HSE trade-offs  
- Designing structures to reduce the probability of human error  
- Balancing operational systems maintenance with personnel safety  
- Current solutions for increased risks of blasts, larger HVAC equipment and larger power requirements  
- Helipad and lifeboat maintenance requirements  
Helene Lunde, HMS Engineer, INOCEAN ENGINEERING AS

12.25  Lunch

Technology R&D: winterization solutions to date

13.30  Advanced surface detection radar: a cost or a benefit?  
- Ice detection in ice and on the Arctic Ocean, differences and similarities. Which is toughest?  
- How much would a de-iced radar antenna benefit compared with a standard antenna?  
- Ice pieces: how far out could they be detected?  
- When would we see these ice pieces at our unit?  
- Growlers drifting on the Arctic Ocean – a true ice hazard: how far out could we detect them?  
- Ice detection using an ice detection radar: operator’s experience from this year’s operations  
Sten Wärnfelt, Manager, RADAR-TECHNOLOGY

14.00  Winterizing tanks, pipes and pumps to guarantee functionality in Arctic environments  
Knowing the effects of sub-zero temperatures on the range of liquids and systems on rigs and preventing liquid freezing and container bursts  
- Effects of freezing temperature on liquids stored and transported on rig: fuel lines, water lines and hydraulics  
- Carbon steel vs. stainless steel pumps  
- Materials, specialised coatings, seals and seal support systems  
Peter Baen, PSG Manager, THERMON

14.30  Finding cost-effective solutions to meet DNV GL’s OS-A201 standards  
- Heat tracing for offshore facilities  
- Shorter installation time  
- Reduced system weight  
- Competitive costs to original systems  
- Quicker maintenance procedures  
- Control and monitoring processes designed for energy saving  
Andreas Dahl, Senior Project Engineer, ONECO SOLUTIONS AS

15.00  Afternoon coffee

15.20  GROUP DISCUSSION  
Recycling energy to reduce costs for offshore facilities  
Discussion to explore ways to generate and recover energy and utilise this for winterization and other heating requirements in offshore facilities  
Topics to include:  
- Waste Heat recovery  
- Cost effective energy sources  
- Challenges of extreme ambient conditions  
Discussion led by:  
David Champneys, Process Engineering Director, BOUSTEAD INTERNATIONAL HEATERS

15.50  Increasing HSE efficiency through unmanned offshore facilities  
- Current snapshot of subsea production facilities development  
- Eradicating the need for high volumes of personnel offshore  
- Reducing risks in the long-term: minimising the human element  
- Onshore remote monitoring of equipment

16.20  OBJECTIVE REVIEW  
Review the key issues you flagged at the beginning of the seminar and assess how your winterization learning objectives have been met. A chance to clarify and summarise the knowledge acquired over the two days.

16.30  Close of seminar

Reviews from 2014:

‘Very informative, great venue and location, well put together, thanks’  
B Ridley, Diamond

‘A very good event, people with different backgrounds’  
T Gresaker, OneCo
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