



**MTS DP WORKSHOP NORWAY  
30 and 31 JANUARY 2024  
OSLO**



**MTS DP WORKSHOP IN OSLO 30 & 31 JANUARY 2024**

**WORKSHOP SUPPORTED BY EQUINOR, SHELL, DNV & MTS DYNAMIC POSITIONING COMMITTEE**

**&**

**SPONSORED BY – DNV, Kongsberg Maritime & Sebastian**

WORKSHOP FACILITATOR: SUMAN MUDDUSETTI CHAIRMAN MTS DP COMMITTEE & CHAIRMAN MTS DP SUB COMMITTEE ON GUIDANCE AND STANDARDS, - SHELL INTERNATIONAL EXPLORATION AND PRODUCTION)

WORKSHOP CO FACILITATOR: DR STEVEN CARGILL (MEMBER MTS DP SUB COMMITTEE ON GUIDANCE AND STANDARDS – CHAIRMAN OF MTS DP SUB COMMITTEE FOR LEARNING FROM INCIDENTS/INSIGHTS - DNV ENERGY SYSTEMS)

**THE INTERNATIONAL & NORTH SEA DP COMMUNITIES BRING TO OSLO** the MTS DP COMMITTEE FACILITATED WORKSHOP WHICH IS TO BE CONDUCTED IN NORWAY on the **30<sup>th</sup> and 31<sup>st</sup> of January at the DNV Office in Høvik, Veritasveien 1, 1363 Høvik, Norway (08:00 – 17:00, Registration at 07:30 on the 30<sup>th</sup>).**

This workshop will follow the familiar pattern of the MTS DP conference workshops conducted in Houston on the day preceding the Annual MTS DP Conference. Workshops such as this have delivered value to the DP community. This view is reflected in the increasing number of requests, to the MTS DP Committee, to conduct similar workshops in other areas around the world.

This workshop will maintain focus on enhancing awareness of DP related issues and the steps that can be taken to address these issues. It will also focus on means to enhance value and effectiveness in the management of DP operations across the Supply Chain. Additionally, the workshop will provide a venue for the participants to gain awareness of the TECHOPs published by the MTS DP COMMITTEE.

The topics for 2024 workshop were chosen by the sponsors, supporting organizations and the International and North Sea DP Communities for their significance and relevance to the delivery of predictable incident free DP operations carried out in the North Sea & Internationally.

**Registration:** Registration is now **Open** - For registration, inquiries, or assistance, please contact:

- Johannes Kristian Bjøringsøy **bassa@sebastian.no**

and

- Zachary Abrams Clark **Zachary.clark@km.kongsberg.com.**

Note: *Please send registration to both email addresses.*

- MTS DP Committee offers this workshop, free of charge to the participants. This has been achieved by the generosity of the sponsors and the DP community.
- Attendance is limited to 70 persons. Early registration is recommended, preferably before the 22<sup>nd</sup> of January.
- To facilitate participation across a diverse group of stakeholders, attendance is limited to two-persons per company / organization. Additional participants may add their names to a waiting list and will be accommodated, space permitting.

**Applicability:** Those likely to benefit from the workshop include:

- Shipyards / DP Vessel Designers, Key DP Equipment Vendors.
- Consultant community
- Vessel Owners / Contractors Project Teams, Technical departments (with accountability for specifying DP Equipment, FMEAs, Operations)



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- Class responsible for approval of DP systems
- Statutory Bodies (Flag State / Coastal State)
- Vessel's Operational Management teams (Masters, Chief Engineers, Chief Electricians & DPOs)
- Oil Companies / Operators with accountability for assurance on DP related matters
- Those responsible for training personnel / stakeholders engaged in DP operations. (Not limited to DPO training).

The format of the workshop will follow the now proven and expected format, used at the MTS DP CONFERENCE in Houston. Participants work in small groups of 6 to 8 persons per table. Coaching and mentoring will be provided to the participants to allow them to be effective and achieve the stated objectives. Results and conclusions from the workshop will be summarized and presented to the MTS DP Technical Committee and to the sponsors.

**TOPICS:** The workshop has been organized into four sessions (FOCUSED on the following themes)

- Achieving decarbonization in the DP sector.
- Basis of confidence - comprehensive verification and validation.
- Cyber security - IACS UR E26 + E27.
- Relative positioning off moving targets.

## TOPICS AND AGENDA

### DAY 1

#### **MORNING SESSION (08:00 – 12:00): ACHIEVING DECARBONIZATION IN THE DP SECTOR**

- Leveraging progressive insights and technology to deliver predictable incident free DP operations, performance objectives and GHG emission reduction.
- Optimising DP redundancy concepts for energy efficiency with high station keeping integrity.
  - Back to basics - Focus on single fault tolerance (for both open and closed bus ties)
  - Stored energy
  - Resilience-by-Design - Low Impact Worst Case Failure
  - Closed Busties.

#### **LUNCH BREAK: (12:00 to 13:00)**

#### **AFTERNOON SESSION (13:00 – 16:30): BASIS OF CONFIDENCE - COMPREHENSIVE VERIFICATION AND VALIDATION**

- The benefits of integrated stakeholder participation
  - JDP on Unified Approach to Proving Single Fault Tolerance
  - DP System Integration (JDP on DPSI)
  - RCPD
  - Standardization/Simplification
- Leveraging Model Based Testing (MBT).
  - Data centricity in Annual DP Trials regulations, technology, and practical impacts (Norwegian and International context).
  - Panel Session ( Pros and Cons of Remote Verification - A North Sea Perspective)



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**DAY 2**

**MORNING SESSION (08:00 – 12:00): CYBER SECURITY - IACS UR E26 + E27.**

- Rules in place in 2024 - Impacts of assurance (people, process, technology)
- How do we as the DP community respond?
  - What do we need?
  - Who can provide that?
  - What are the enablers and blockers?

**LUNCH BREAK: (12:00 to 13:00)**

**AFTERNOON SESSION (13:00 – 16:30): RELATIVE POSITIONING OFF MOVING TARGETS**

- Lessons Learned/Not Learned
- Current Industry position and state of the art (Class, IMCA, MTS)
- OEMs to present best practice with existing technology.

*Note: The objective is to summarize the output as feedback/feedstock for the MTS DPC Guidance and Standards Sub Committee and MTS DPC.*