COS Outlook for 2024

February 1, 2024
Special Thanks to the Webinar Contributors

• Russ Holmes, COS
• Christy Lafferty, Oceaneering
• Lon Langlois, Hess
• Kim Forgie, OXY
• Travis Harrington, Chevron
• Tricia Grant, Hess
• Mark Alexander, Shell
2024 COS Members

Operators
Apache Corporation
Arena Offshore
bp America, Inc
Chevron Corporation
Equinor US
Exxon Mobil Corporation
Hess Corporation
Murphy Oil Corporation
Occidental Petroleum Corporation
Quarter North Energy
Shell USA, Inc
Talos Energy
TotalEnergies
Woodside Energy

Drilling Contractors
Helmerich & Payne
Valaris plc

Service/Equipment Contractors
Baker Hughes
Halliburton
Oceaneering International, Inc
SEMPCheck
Subsea 7

Board Affiliates
IADC – Int’l Assoc of Drilling Contractors
NOIA – National Ocean Industries Assoc
OOC – Offshore Operators Committee
SEMS Audit Guidance & Good Practices

Guidance for Auditing SEMS

- COS-1-01 SEMS II Audit Protocol (Gap Analysis)
- COS-1-06 Audit Planning*
- COS-1-07 Corrective Action Plan*
- COS-1-08 Audit Report Format*
- COS-1-09 Auditor Guidance*
- COS-1-10 Remote Audits
- COS-2-03 SEMS Auditing Requirements, 3rd edition
- COS-2-05 Requirements for COS SEMS Certificates with International Adde

Guidance for SEMS Implementation

- COS-3-01 Leadership Site Engagement, 2nd edition
- COS-3-02 Skills & Knowledge Management*
- COS-3-03 SEMS Maturity Self-Assessment
- COS-3-04 Robust Safety Culture
- COS-3-05 SEMS Interface Agreements
- COS-3-06 Developing & Managing Procedures
- COS-3-07 Crane Maintenance Tracker
- COS-3-08 Verifying Existing Barriers
- COS-3-09 Work Planning and Work Management Flowchart

* Indicates versions available for both 3rd and 4th editions of API RP 75
Safety Share 2024-006  
**Solenoid Ricochets from Crow’s Nest**

**What happened?**  
A Platform Worker... on the crow’s nest of the dry tree platform ... was breaking off a solenoid ... using a hammer, when a 3.5-lb metal piece of a solenoid broke off and fell. The dropped object landed on the grating of the crow’s nest (5 ft below), then fell straight down and hit a flange under the crow’s nest (10 ft below), then fell at an angle down to the top of a scaffolding setup (40 ft below), then fell at an angle in the opposite direction, coming to rest on the Plus-Ten Deck grating. Three Contractors were in the general area on the Plus-10 Deck, under 3 levels of scaffolding, approximately 10 ft from where the object landed.

**What went wrong?**  
A 3.5-lb metal piece of a solenoid broke off and fell.

The JSA referenced the risk of dropped objects from overhead; however, the Worker on the crown’s nest did not know that there were 3 Workers on the Plus-10 Deck since they were under the scaffolding.

**What went wrong?**  
A 3.5-lb metal piece of a solenoid broke off and fell.

The JSA referenced the risk of dropped objects from overhead; however, the Worker on the crown’s nest did not know that there were 3 Workers on the Plus-10 Deck since they were under the scaffolding.

**Why did it happen?**  
Kick plate had been removed from the crow’s nest without an MOC.

**What areas were identified for improvement?**  
Reinstalled kick plate on the crown’s nest platform and secured the same for all other platforms.

Reinforced that all work involving potential SVMOs on various heights within the well bay area must be confirmed with a single, simulator-trained or experience in the area of the project or leader prior to performing the work in the area. If project leader is unavailable, the GEM must ensure permission or notification as per the project's standard operating procedures (SOPs) and compliance with the OSHA standards.
Safety Share 2024-006
Solenoid Ricochets from Crow’s Nest

Why did it happen?
Kick plate had been removed from the crow’s nest without an MOC.

What areas were identified for improvement?
Reinstalled kick plates on the crow’s nest platform and ensured the same for all other platforms.
Reinforced that all project work involving potential SIMOPS at various heights within the well bay area must be confirmed with a single, accountable Point of Contact (Project Leader) prior to entering the well bay area. If Project Leader is unavailable, the OIM must give permission or not, based on a physical check of the SIMOPs at the time of the work.
Data Collection, Analysis, & Reporting (DCAR) – Chair: Christy Lafferty, Oceaneering
How is COS data used?
Combined Tier 1 and Tier 2 Process Safety Events down 80% over last two reporting years.

COS Member work hours represented 76% of all US OCS activity for 2022.
SEMS Audit & Certificate Committee (SACC) – Chair: Lon Langlois, Hess

COS Board

Single Points of Contact Cmte

SEMS Audit & Certificate Committee

Data Collection Analysis/Reporting Committee

Good Practice Development Pillar

Fatigue Risk Management

Safety Culture Phase 2

Learning from Normal Work

Confined Space Ventilation

Eval & Improvement of SEMS

Audit Data

Maturity

COS Director

Accreditation Body

Sharing Industry Knowledge Pillar

Asset Integrity Subcommittee

Contractor Management Subcommittee

Lifting Subcommittee

Process Safety Subcommittee

Grating

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Published in 2023

Download these and more – FREE – at www.centerforoffshoresafety.org
# COS-3-03 Guidelines for SEMS Maturity Self-Assessments

## Maturity Matrix:

<table>
<thead>
<tr>
<th>SEMS Element</th>
<th>Issue</th>
<th>E</th>
<th>D</th>
<th>C</th>
<th>B</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Established?</td>
<td>No component(s) in place</td>
<td>Component(s) informally in place, but not consistent with requirements</td>
<td>Component(s) informally in place that is consistent with requirements</td>
<td>Component(s) formally in place, but not fully consistent with requirements</td>
<td>Component(s) formally in place that is fully consistent with requirements</td>
</tr>
<tr>
<td></td>
<td>Implemented?</td>
<td>No component(s) in place</td>
<td>Component(s) is not communicated</td>
<td>Component(s) is communicated to applicable personnel</td>
<td>Personnel have the skills and knowledge to perform their assigned tasks for the component(s)</td>
<td>Personnel with the appropriate skills and knowledge are performing their assigned tasks for the component(s)</td>
</tr>
<tr>
<td></td>
<td>Maintained?</td>
<td>No component(s) in place</td>
<td>Component(s) has not been reviewed to determine whether it works as designed</td>
<td>Component(s) is informally reviewed to determine if it works as designed</td>
<td>Component(s) is formally reviewed to determine if it works as designed</td>
<td>Component(s) has been through multiple formal review cycles per an established schedule to determine if it works as designed</td>
</tr>
<tr>
<td></td>
<td>Continual Improvement?</td>
<td>No component(s) in place</td>
<td>Informal feedback on component(s) is available</td>
<td>Formal feedback on component(s) is available</td>
<td>Formal feedback on component(s) is being reviewed</td>
<td>Feedback is driving appropriate improvements in component(s)</td>
</tr>
</tbody>
</table>
Audit Data Deep Dive Work Group
Evaluation & Improvement of SEMS WG

Objective

• Develop guidance on the implementation of API RP 75, 4th edition, element 13 – Evaluation and Improvement of SEMS.

For additional information contact Brandy Harrington – harringtonb@centerforoffshoresafety.org
Good Practice Development (GPD) Pillar – Chair: Kim Forgie, Occidental Petroleum

COS Board
- Single Points of Contact Cmte
  - SEMS Audit & Certificate Committee
    - Eval & Improvement of SEMS
    - Audit Data
    - Maturity
  - Data Collection Analysis/Reporting Committee
- Good Practice Development Pillar
  - Fatigue Risk Management Subcommittee
  - Safety Culture Phase 2
    - Learning from Normal Work
    - Confined Space Ventilation
  - Asset Integrity Subcommittee
  - Contractor Management Subcommittee
  - Lifting Subcommittee
  - Process Safety Subcommittee
- Sharing Industry Knowledge Pillar
  - Grating
  - COS Director
    - Accreditation Body
- COS Director
  - Accreditation Body

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# Fatigue Risk Management

**Leads:** Karen Jenkins, Chevron, and Eileen Hoff, Shell

## Objective

- Develop one document around assessing fatigue management practices and tools and including recommended guidelines or best practices

## Elements of a FRM Program

- Education, Knowledge, and Skills
- Environmental Considerations
- Work Readiness & Fatigue Reporting
- Data Collection for and Performance Measurement of the FRM Program
- Implementation & Continuous Improvement
- Health & Wellness Programs
- Travel
- Duty Hours
- Sleep Strategies & Hygiene

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*For additional information contact Brandy Harrington – harringtonb@centerforoffshoresafety.org*
Safety Culture Phase 2
Lead: Ryan Taylor, Murphy

Objective: Create a document that describes

- Various methodologies to assess safety culture and how these methodologies may interact with each other
- A tool(s) to assess safety culture within an organization
- How to “implement” a safety culture such that it can improve
- Features of a weak culture through to a robust culture

For additional information contact Brandy Harrington – harringtonb@centerforoffshoresafety.org
# Learning from Normal Work

**Lead:** Lamberto Nonno, Baker Hughes

<table>
<thead>
<tr>
<th><strong>Scope:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Identify and review current documentation and industry practices, methods, and tools to Learn from Normal Work.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Objectives:</strong></th>
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<tbody>
<tr>
<td>• Canvass industry for existing methods and tools to Learn from Normal Work (complete)</td>
</tr>
<tr>
<td>• Develop recommended guidelines for establishing and maintaining a Learning from Normal Work capability</td>
</tr>
<tr>
<td>• Identify tools that enable Learning from Normal Work</td>
</tr>
<tr>
<td>• Identify performance indicator(s) that may be leveraged to measure the effectiveness of these tools</td>
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</tbody>
</table>

*For additional information contact Brandy Harrington – harringtonb@centerforoffshoresafety.org*
## Confined Space Ventilation

**Lead:** TBD

### Description:
- Identify existing practices and standards, review for gaps and pursue updates or development of recommended confined space ventilation good practices

### Objectives:
- Research previous and ongoing work covering confined space ventilation
- Determine need for additional work on either developing or researching confined space ventilation
- If needed, provide recommendations for existing standards or develop good practice for confined space ventilation

*For additional information contact Brandy Harrington – harringtonb@centerforoffshoresafety.org*
Process Safety Subcommittee (PSSC) 2024 Plan

Q1 Mtg - March 21, 1:00pm-3:00pm:
- Process Safety Data Deep-Dive – Kick-off
- 10 years of Process Safety Event (PSE) LFI Reports
- Analysis of LFI Reports vs Process Safety Fundamentals

Additional 2024 Meeting Topics
- Human Organizational Performance and Process Safety
- API’s Process Safety Site Assessment Program
- Updating COS PSE data collection process
- Align with IOGP

For additional information contact Julia FitzGerald – fitzgeraldj@centerforoffshoresafety.org
Asset Integrity Subcommittee (AISC) 2024 Plan

Q1 Mtg - March 28, 9:00am-12:00pm:
- API Inspection and Mechanical Integrity Summit Highlights
- BSEE SEMS Mechanical Integrity Data Deep-Dive – Initial Thoughts

Additional 2024 Meeting Topics
- Structural Integrity Management
- Digitization and Artificial Intelligence Applications and Limitations

AISC at COS Forum:
- Present results of BSEE SEMS Mechanical Integrity Data Deep-Dive at COS Forum Breakout Session

For additional information contact Julia FitzGerald – fitzgeraldj@centerforoffshoresafety.org
Grating Work Group
Lead: JT Eckstrum, Talos Energy

Description:
• The scope of this work is to develop a guidance document around accurately assessing grating and working surface integrity, develop tools and practices to provide an effective approach by industry for inspection, identification, maintenance, and repair/replacement of offshore grating and work surfaces.

Objectives:
• Develop guidance for Grating Inspectors
  • Descriptions and photos of Good, Bad, and Ugly
• Develop guidance for facility Owner/Operators
  • Guidance on what should be included in an overall Asset Integrity Program related to Grating
• If appropriate, submit proposal to API Standards making the case for a technical standard related to offshore corrosion of grating, decking, and support structures

For additional information contact Julia FitzGerald – fitzgeraldj@centerforoffshoresafety.org
Lifting Subcommittee (LSC) – Chair: Mark Alexander, Shell

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Lifting Subcommittee (LSC) 2024 Plan

Q1 Mtg - March 19, 9:00am-12:00pm:

- Panel - How do YOU assess competency for Lifting Operations: Knowledge / Skills / Experience

Additional 2024 Meeting Topics

- Pre-Use Inspection Checklists – Best Practices
- API Safe Lifting Conference Highlights
- BSEE and COS Crane Incident Data Review

For additional information contact Julia FitzGerald – fitzgeraldj@centerforoffshoresafety.org
PROPOSED – Contractor Management Subcommittee
Chair: TBD

COS Board
- Single Points of Contact Cmte

SEMS Audit & Certificate Committee
- Eval & Improvement of SEMS
- Audit Data
- Maturity

Data Collection Analysis/Reporting Committee
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COS Director
- Accreditation Body

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Membership in COS
COS Membership

- Applicant must be:
  - Owner, operator, or lease holder of record,
  - A drilling contractor,
  - A primary services or equipment provider, or
  - A support services provider

- Applicant must have a fully operational safety and environmental management system (SEMS) or equivalent

- Applicant must have conducted, or plan to conduct, an audit of its SEMS or equivalent for its operations in the US OCS

- Applicant must agree to:
  - Participate in the COS Data programs
  - Actively participate/attend meetings of COS committees and subordinate groups
  - Seek/maintain a COS SEMS Certificate (required for Producer/Operator members)

Annual Membership Fee

- API Members: $0 additional annual fee to join COS
- Non-API Members: $5000 annual membership fee

For additional information contact Russell Holmes – holmesr@centerforoffshoresafety.org
SAFETY LEADERSHIP AWARDS

The Center for Offshore Safety celebrates offshore workers who strive to improve operational safety and puts a Spotlight on Excellence of those personnel.

Award Criteria

Preference will be given to those nominations:

• Focused on major accident risk – covering both personal and process safety.
• That demonstrate evidence of risk reduction or elimination and/or HSSE performance improvement.
• Where risk and HSSE performance improvement was delivered in a systematic way through a HSSE management system.
• That were effectively shared with industry.

Scan QR code to receive information re: 2024 SLA Nominations
Mark Your Calendars!

COS at the 2024 Offshore Technology Conference
- May 9
- NRG, Houston

API Safe Lifting Conference
- Sept 24-25
- TBD, Houston

COS Annual Forum
- Sept 26
- TBD, Houston
Thank you!

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Julia FitzGerald  fitzgeraldj@centerforoffshoresafety.org
Curt Johnson  johnsonc@centerforoffshoresafety.org