



Debrief on 16 January 2025

MAINTENANCE WORKGROUP

meeting held on 15 January 2025
in Houston (In Person and via Zoom)

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Participants

13 participants from 7 organizations

- Chevron (6)
 - Kinetica (2)
 - PHI (1)
 - Shell (1)
 - BP (1)
 - Sikorsky (1)
 - FAA (1 on Zoom)
- Excuses from:
- HeliOffshore
 - VAI

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- What a wealth of information sharing HSAC members had missed
 - Supply chain issues: action item
 - Learning from incidents: 3x
 - Example Human Factors Analysis and Classification System (HFACS)
 - Maintenance Observation Program (MOP): RP update and Success stories
 - Fatigue management in Maintenance

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- Supply chain issues
 - Government inventory taxes on Aircraft surplus parts inventory
 - Detrimental to readiness rates of the helicopter fleet
 - VAI rep volunteered to be the action owner
 - Framing it towards disaster and humanitarian relief until he gets traction
 - Talking to OEMs to provide detailed information
 - Still working on it encouraged by support from industry

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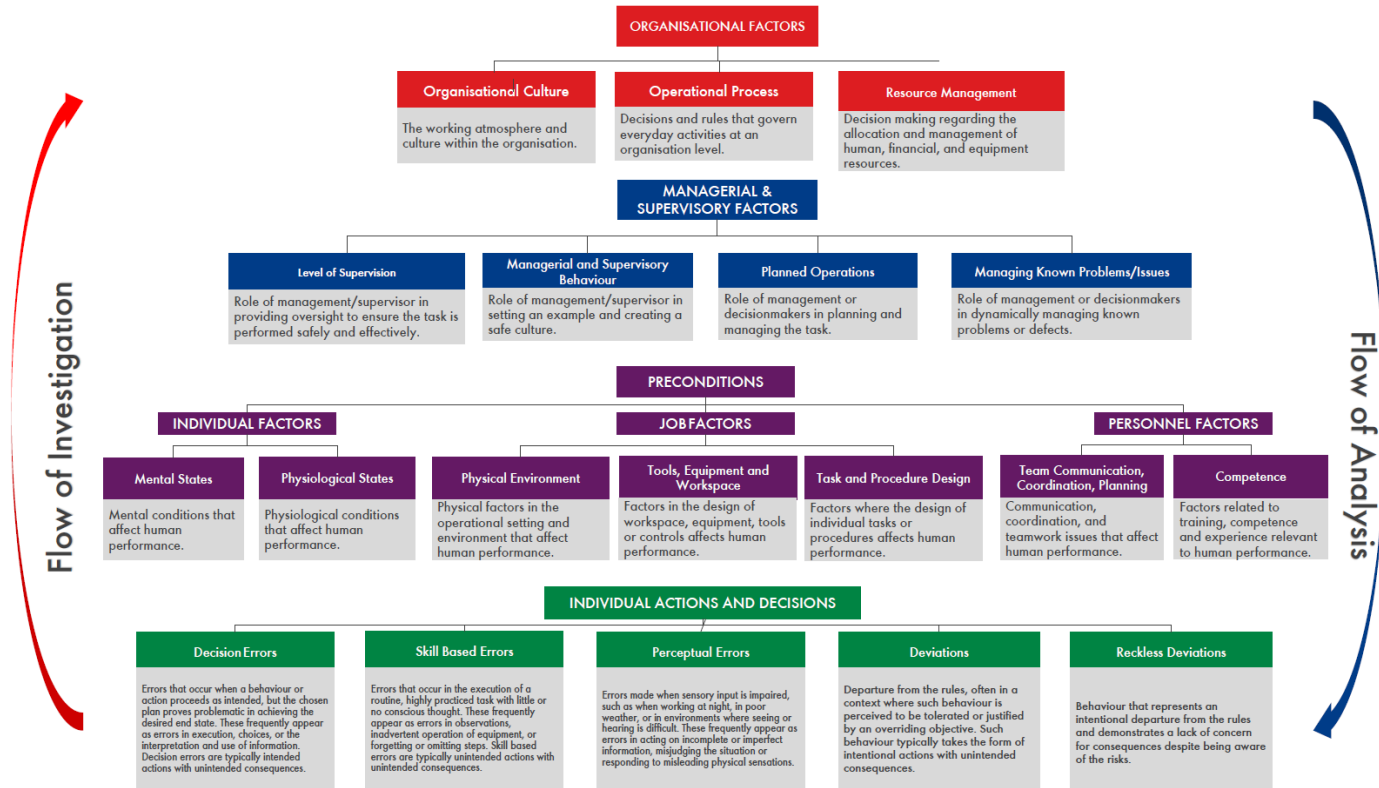


- Learning from incidents: 3x
 - How cracks were found (industry examples)
 - InfoShares (action: Bryan Buchanan)
 - HeliOffshore InfoShares to share within HSAC
 - Issue HSAC InfoShares for sharing with HSAC member and HeliOffshore

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Example Human Factors Analysis and Classification System (HFACS)



Actual incident investigation:
loss of control in flight

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■ Maintenance Observation Program

■ RP update

- Comments from WG worked into the document
- Making last corrections
- Aligning with HeliOffshore (planning to add their own document on top of this RP)
- Supporting flowchart/picture & MOP observation form to be professionalized
- Endorsement from VAI and IOGP (if no further delay)
- Goal: Finish before I leave

■ Success stories – making the job easier!

- S92 oil draining – messy became the norm – designing a drain tool
- SMS not catching this + MOP enhances communications about the outcome
- Conscious observations!

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■ Fatigue management in Maintenance

- IOGP 690
- Gordon Dupont's "dirty dozen"
 - Fatigue is the main contributor
- A risk that is hidden
- HeliOffshore has a working group
- HSAC RP 15-2 issued in August 2015

690-4 - Engineering

MAINTENANCE PERSONNEL

25. Maintenance personnel general requirements – fatigue prevention

25A. Purpose

Ensuring maintenance personnel are alert and fit for work.

25B. Expectations

A fatigue management programme is in place for maintenance personnel.

Safety Survey 2023 Categories – Future risks (O+E)

“What do you consider to be the three greatest risks to the safety of your operation in the short term?”



Aircraft Operators



Energy Companies

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- Fatigue management in Maintenance
 - Objective: discuss what would be the most effective program/tool
 - Effectivity that is validated by measurements
 - Proactive
 - Starting point: hours (working, time of the day, consecutive days)
 - Hours to tell the full story
 - Self assessment every start of day/shift
 - Temperature
 - Stress
 - ??
 - Engineers to rate themselves every morning (use of algorithms)
 - Hard to implement – gain trust from the engineers
 - Smaller companies – no more complex than needed

Next meeting

Lafayette, 14 May 2025



- On the agenda
 - MOP success stories
 - Fatigue management
 - OEM update Sikorsky
 - More LFI
- Participants - Our ambition
 - **All companies** represented
 - Attendance from **all levels**
- **New Chair – Lance Lyon**
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