



# HSAC

Helicopter Safety Advisory Conference



# Maintenance Workgroup

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Meeting 14-15 May 2025

Lafayette, LA

# Maintenance Workgroup

*Lance Lyon*



## 12 participants from 7 organizations

- HeliOffshore (1)
- Chevron (5)
- PHI (2)
- Shell (1)
- RLC (1)
- Sikorsky (1)
- VAI (1)

Action item from  
supply chain issues  
Update

2x Learning from  
incidents

EDME  
Enhanced Decision-  
Making Model for  
Engineering

MOP  
Examples

Fatigue  
Management  
Presentation

OEM update  
(Sikorsky)

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## Fatigue Program

*Martijn Ringelberg*

- Few regulatory requirements – Data driven/scientific
- IOGP requirement (focus general wellbeing of the employee)
- Showcased the biomathematical model (SAFE) and the Sam Perelli fatigue scale.
- Proved to be useful and easy for their operation.

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## Fatigue Program

*Martijn Ringelberg*

### Challenges for maintenance

- Reluctance to report fatigue (fear of reprisal)
  - Accuracy is heavily tied to reporting up-front
- Perceived inaction from management
- Tactics to improve upfront reporting from maintenance staff increase trust in management.
- Robust work-schedules and understanding associated fatigue

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## Enhanced Decision Making: Cognitive Reasoning in Maintenance

*Scott Allen*

### Background

- Why is enhanced decision making relevant in Offshore aviation engineering?
  - Weakness in staff experience/competency/training
  - +
  - Insufficient maintenance staff
  - +
  - Poor ratio of experienced certifying staff to non-certifying staff
  - +
  - Current training takes NOVICE to PROFICIENT performer
  - =

**Need for training to take PROFICIENT PERFORMER to EXPERT**

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## Enhanced Decision Making: Cognitive Reasoning in Maintenance *Scott Allen*

### Project Development

EDM-E Training Approach



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## OEM Update (Sikorsky)

*Peter Hansen*

- Recovery times for parts
- Airframe Availability Stabilization
- Inspection Interval Increases based off operator data
- Increase in Production of Main Gearboxes / Increase TBO
- Received Safety Updates (e.g. #2 driveshaft coating, MR bushing redesign)

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## MOP / LFI shares

*Don Fonseca (PHI) / Group*

- 21 observations past 3 months (Identified improvement opportunities)
  - E.g. redesign of the chin bubble protectors, and utilization of self sealing FOD bags.
- Looking into (New Process) labeled “*Facilitated Team Review*”.
- Learning from incidents examples involved “tool control”.
- Motion to shift focus/sharing to the subject of **tool control**.



# HSAC

Helicopter Safety Advisory Conference

Safety Through Cooperation - Since 1978

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## October HSAC central themes

- EDME Workshop
- OEM update from Airbus
- Continue sharing on the tool control subject
- Closing of long-standing action items