HeliOffshore Safety Strategy
Benefits of Global Collaboration

HeliOffshore’s Safety Strategy provides our industry with a common language and framework to enhance safety. It directs focus to those activities that, when performed well in the frontline, will prevent accidents.

Our shared strategy creates:

- A collective view of the actions that make the greatest difference to safety;
- Awareness of best practice already available and the tools to implement those practices fully;
- A means to measure the progress and impact of safety actions across our industry;
- An environment where stakeholders collaborate, share information and combine resources to achieve breakthroughs in safety.

Our global collaboration is fostering innovation and delivering safety breakthroughs – to the benefit of everyone who travels offshore.

Performance Improvement vs Risk Management

We are building a picture to proactively enhance safety performance across our industry.

Informed by data and driven by our performance-based approach, we take a forward view of safety, shifting perspective from reducing error to improving accuracy and effectiveness, and from reactive to proactive action.

We work with members to define safety outcomes in terms of things that people and technology do every day to keep us safe. We then work across the industry to foster innovation and focus resources on those actions with the greatest potential to further enhance safety. By applying this performance model, we can then measure the effect of our actions and ensure our actions have the desired safety benefit in the frontline where it counts.

Global collaboration, frontline results.
HeliOffshore Safety Performance Model

**Accident Events**

- System Failure
- Aircraft Upset
- Surface/Obstacle Conflict
- Heliport/Helideck
- Weather
- Collision in Air
- Ground Collision/Handling
- Fuel Exhaustion/Contamination

**Early Diagnosis of Potential Failures**

- Vessel Pitch, Roll, Height Limits
- Attitude Management
- Air Traffic Control Oversight
- (Hot) Refuelling Procedures

**Safety Equipment Operating**

- Heliport Management
- Air Traffic Control Oversight
- Passenger Briefing
- Fuel Checks

**Enhanced Reliability**

- No. of Aircraft on Heliport/Deck
- Bird Strike Prevention
- Flight Handling
- Flight Planning

**Airworthiness Management**

- Heliport/ Helideck Design
- Airborne Collision Avoidance System
- Dangerous Goods
- Fuel Reserves

**Effective Maintenance/Tool Control**

- Aircraft Design
- Weather Radar
- Radar (RADALT)

**Error Tolerant Designs**

- Adverse Weather Policy/Use
- Air Traffic Control Oversight
- Flight Handling

**Supply Chain**

- High Intensity Strobe Lights
- Security Control
- Error Tolerant Designs
- Supply Chain

**System Failure**

- Regular Reports/Forecasts
- Early Diagnosis of Potential Failures
- Enhanced Reliability
- Airworthiness Management

**Accident Prevention Goals**

- Effective Flight Planning
- Vessel Pitch, Roll, Height Limits
- Attitude Management
- Flightpath Management

**Enhanced Situational Awareness**

- Detect/Avoid Obstacles
- Night/IFR Flight Mitigations
- Enhanced Situational Awareness
- Enhanced Situational Awareness

**Accident Survival Goals**

- Impact Survival
- Floatation
- Underwater Escape
- Sea Survival
- Land/General Survival
- Alerting
- SAR/Emergency Response
- Post-Accident

**Enablers**

- Safety Leadership/Culture
- Effective SMS
- Info Sharing
- Competency
- Multi-crew Operations
- Personnel Readiness
- Modern/Proven Technology
- Standards & Oversight
High Potential Actions from the HeliOffshore Safety Performance Model

TARGET OUTCOME: System Reliability

The following diagrams drill down into HeliOffshore’s Safety Performance Model. They contain the actions that have been identified as “high potential”. The identification of these key actions helps to focus our collaborative effort so that, together, we improve safety performance across the industry. More detail on these actions is contained in the HeliOffshore Safety Strategy.
TARGET OUTCOME: Operational Effectiveness

- **Flightpath Management**
  - System Tools
  - Fully Coupled Approach
  - Early ID of Deviations
  - Realistic Sim Training
  - Approach Path Mgt Standards

- **Effective Use of Automation**
  - FCOM
  - Automation Policy
  - Training

- **Enhance Situational Awareness**
  - Night Enhanced & Synthetic Vision
  - Enhanced Helideck Lighting

- **Obstacle Avoidance**
  - Enhanced HTAWS
  - Warning of Drift to Obstacle
  - Helideck Design & Management

- **Night/IFR Flight Mitigations**
  - Recency
  - Training
  - Helideck Lighting

- **RADALT Procedures Use**
  - Appropriate Procedures
  - Effective Training

- **Aircraft Upset**
  - Realistic Sim Training

- **Surface/Obstacle Conflict**
  - Recency Training
  - Helideck Lighting

Enhance Situational Awareness
Night Enhanced & Synthetic Vision
Effective Use of Automation
FCOM
Flightpath Management
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Obstacle Avoidance
Enhance HTAWS
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Helideck Design & Management
Night/IFR Flight Mitigations
Recency Training
Helideck Lighting
RADALT Procedures Use
Appropriate Procedures Effective Training
Enhanced Helideck Lighting
Our members have many of these actions in place already, so we have focused on those actions with the greatest potential for collaboration.
Visit our website for the full HeliOffshore Safety Strategy: www.helioffshore.org