

Helicopter Safety Research Management Committee

Subject Minutes of 75th HSRMC

Date Wednesday 9th May 2018

Location Aviation House, Gatwick

Organised by Ayshea Skinner/David Howson, UK CAA

List of Participants

Attendees	Captain Rick Newson, UK CAA (Chairman) Mr David Howson, UK CAA Mr Kevin Payne, UK CAA (Secretary) Captain Ken Allison, UK CAA Mr Sean Parker, UK CAA Mr David Malins, UK CAA Mr Stephen Long, UK CAA International Mrs Judith Rees, UK CAA International Mr Dimitri Garbi, EASA Captain Ornulf Lien, Norwegian CAA Mr Andrew Dettl, Airbus Helicopters Captain Simon Harlow, Babcock International Group Mr Daniel Chicoyne, C-NLOPB (via conference phone) Captain Jon Hopkinson, on behalf of CHC and HelliOffshore Mr Neil Taylor, Defence Science and Technology Laboratory Mr Alex Knight, Helideck Certification Agency Mr Alan Wilson, Leonardo Helicopters Mr Dujon Goncalves-Collins, RenewableUK Mr Jim Lyons, Royal Aeronautical Society Mr Grant Campbell, Shell Mr David Thorndycraft, Thales Avionics Mr Kieran Smith, Thales Avionics Dr Mark White, University of Liverpool
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Apologies	Mr John McColl, UK CAA Mr Tony Eagles, UK CAA Mr Brian Pattinson, UK CAA Captain Andy Spencer, UK CAA Miss Ayshea Skinner, UK CAA Mr Mario Ranito, UK CAA Mr Lionel Tauszig, EASA Mr Anders Rosok, NCAA Mr Gilles Bruniaux, Airbus Helicopters Ms Esaula Armstrong, HSE Mrs Gretchen Haskins, HeliOffshore Mr Robbie Decoster, Belgian CAA Mr Michael Cerneck, Sikorsky
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AGENDA

1. Introduction
2. Review of Minutes of 74th meeting (1st November 2017)
 - 2.1 Accuracy
 - 2.2 Actions/matters arising
3. Review of Current Research Projects
 - 3.1 UK CAA managed projects
 - 3.2 EASA managed projects
 - 3.3 C-NLOPB initiatives
4. Research Programme Funding
 - 4.1 Funding status of current programme
5. Presentations
 - 5.1 Offshore Helicopter Related Research at University of Liverpool
 - 5.2 Helmet Mounted Displays for Offshore Helicopter Operations
6. AOB
7. Date of Next Meeting
8. Close

Minutes of meeting

1. Welcome & Introduction

Captain Newson welcomed all participants to the 75th meeting of the HSRMC, in particular those attending their first HSRMC; Dimitri Garbi from EASA representing Lionel Tauszig, Grant Campbell, from Shell, replacing Ian Scott, Sean Parker, from CAA, ISP, David Malins, from CAA Airworthiness and Judy Rees from CAA International, taking over from Andrada Conti as helideck project coordinator. Dr Mark White from University of Liverpool was attending to present on offshore helicopter related research at the university and David Thorndycraft and Kieran Smith from Thales UK were attending to present on helmet mounted displays for offshore helicopter operations.

2. Minutes of 1 November 2017 Meeting

2.1 Accuracy:

The minutes (final (3)) from the 74th meeting of 1st November 2017 were approved without any comments or corrections.

2.2 Actions:

Action 356: Mr Howson to convene a workshop with the support of HeliOffshore on side floating helicopters during 2Q 2018.

Mr. Howson advised there had been no progress to date due to lack of engagement with the HeliOffshore survivability workstream. He proposed that a better route could be via the OHSLG, assigning the action to Recommendation 05 of the Offshore Review (CAP 1145). Mr Howson added that there appeared to be some interest from the new OGUK HSE Director (Matt Abraham) in progressing this recommendation. This will be raised at the next OHSLG to see if there is sufficient support.

Captain Hopkinson confirmed that the HeliOffshore survivability group are still interested to be engaged with the workshop and recommended that Mr Howson coordinate with himself and Grant Campbell.

3. Review of Current Research Projects

3.1 UK CAA Managed Projects (Mr Howson, UK CAA)

In addition to the Research Update document circulated to members on 4th May 2018, Mr Howson delivered a PowerPoint presentation, during which the following points were noted/emphasised:

Survivability

- Mr Garbi asked whether a requirement for infrared reflective tape was being included in the new lifejacket standard. Mr Howson advised that it hasn't so far but would raise it at the next ASD-STAN D1 WG9 meeting. Lionel Tauszig had presented the EASA research to the working group.

Operational Issues

- H-TAWS – Retrofit to helicopters expected to start with the AW139 during the first half of 2019. The Honeywell modification (equipment Service Bulletin) is being certificated now; an aircraft Service Bulletin is also required for each helicopter type.
- Triggered Lightning Strike Forecasting – Captain Hopkinson noted that there was a perception that the forecasting system was not reducing the lightning strike rate. Mr Howson undertook to review the statistics and advise.

Action 357: Mr Howson to provide an analysis of the lightning strike rate.

The concept of data linking updated forecasts to aircraft in flight was raised. Mr Garbi noted that EASA's survey for electronic flight bags is being extended to rotorcraft.

- GPS-Guided Offshore Approaches – Mr Howson confirmed that Helios Technology would now be coming to the next HSRMC in October to present their work on the Gap Analysis for GPS-Guided Offshore Approaches. There was insufficient progress to report for this meeting.

Helidecks

- Mr Howson reported that the new HMS standard had been published on the HCA website in April, and that it had been agreed that operations to moving helidecks not equipped to the new Rev.9 HMS standard (or later standard) by 31 March 2021 would be limited to stable deck conditions only.

3.2 EASA Managed Projects

Although Lionel Tauszig was unable to attend, the update on EASA managed Projects was provided by Dimitri Garbi. The presentation material has been circulated to members.

3.3 C-NLOPB initiatives

Mr Howson had been provided with briefings from Dan Chicoyne of C-NLOPB and Mr JJ Gerber of Wood Group/Cougar which he had included in his presentation for agenda item 3.1. Mr Chicoyne dialled in via conference phone after Mr Howson had briefed the meeting.

4. Research Programme Funding

Mr Howson provided a brief update on the funding status of the current CAA research programme. The funding status for all current projects is adequate and there is no urgent need for funding.

5. Presentations

5.1 Offshore Helicopter Related Research at University of Liverpool [Dr Mark White, University of Liverpool]

Dr White presented the offshore helicopter related research at the University of Liverpool. A copy of the presentation (minus the animation due to file size constraints) has been circulated to Members.

5.2 Helmet Mounted Displays for Offshore Helicopter Operations [David Thorndycraft and Kieran Smith, Thales UK]

Mr Thorndycraft and Mr Smith gave a presentation on developments in the area of head-mounted displays at Thales. A copy of the presentation has been circulated to Members.

Mr Thorndycraft noted that the commercial version was a headband rather than a helmet which is arguably too heavy for use in the civil world.

Captain Newson thanked Mr Thorndycraft and Mr Smith for their presentation noting that operations in degraded visual environments is right near the top of onshore helicopter accident causal factors in the UK. Since offshore operations are conducted IFR, he thought that the primary market may well be onshore rather than offshore.

Action 358: Captain Newson to organise a visit of CAA inspectors to view the system at Thales site in Crawley.

6. AOB

Mr Payne advised that the next update of CAP 437, amendment 1 to edition 8 had been circulated for industry comment on 2nd May 2018 with a request for comments by 30th June 2018. He provided a summary of the main changes being proposed for the amendment.

Mr Howson provided an update of the One Atmosphere presentation delivered at 73rd HSRMC. He regretted that the new material was commercially sensitive and therefore could not be circulated.

7. Date of Next meeting
Mr Payne confirmed the 76th meeting of the HSRMC will take place on Wednesday 31st October 2018 at CAA, Aviation House, Gatwick between 1230 and 1700 hrs. The following, 77th meeting of the HSRMC is set for the same time on Wednesday 1st May 2019. <i>Post Meeting Note:</i> <i>Due to the very light agenda anticipated, it has been decided to cancel the 31st October HSRMC meeting and focus on progressing the safety initiatives. The 76th meeting of the HSRMC will therefore take place on 1st May 2019.</i>
8. Attachments circulated with an email dated 8th June 2018
1. UK CAA Managed Projects [Research Update – Dave Howson]. 2. EASA Managed Projects [Dimitri Garbi] 3. Offshore Helicopter Related Research at University of Liverpool [Dr Mark White, University of Liverpool] 4. Helmet Mounted Displays for Offshore Helicopter Operations [David Thorndycraft, Thales UK]
Table 1: List of actions:
Action 357: Mr Howson to provide an analysis of the lightning strike rate. Action 358: Captain Newson to organise a visit of CAA inspectors to view the system at Thales site in Crawley.