European Union Aviation Safety Agency

Vortex Ring State — Final dissemination event

On-site

Organised by: EASA

Event Type: Meeting

Date:

06 Nov 2024

06/11/2024, 14:00 - 18:00 CET (UTC+1)

Location

RAI Amsterdam

Europaplein 24
1078 GZ Amsterdam
The Netherlands

Amsterdam RAI

Description

The Vortex Ring State — Final dissemination event's goal is to present the comprehensive results of the Helicopter Vortex Ring State (VRS) Experimental Research project conducted under a contract between the European Union Aviation Safety Agency (EASA) and ONERA/DGA EV.

The event will highlight:

- the determination of the VRS flight envelope for the helicopters used,
- a comparison of the findings with predictions from existing analytical and simulation methods,
- an assessment of the effectiveness of the Vuichard VRS recovery maneuver for the specific helicopter types involved in the study.

The primary objectives of the VRS project were to refine the understanding of the VRS domain and to compare the conventional recovery method (forward motion) with a new recovery technique proposed by Mr Claude Vuichard (lateral motion).

Throughout the project, it was observed that various influencing factors, such as initial vertical speed, average torque applied during recovery, and initial horizontal speed, significantly affect the performance of both recovery methods. However, the impact of these parameters varies depending on the helicopter type. The project also evaluated the workload associated with each recovery technique.

The event will take place at the RAI Amsterdam Convention Centre, Room E102

Agenda

Preliminary agenda: Vortex Ring State — Final dissemination event

Registration

The event is open to the European Rotors 2024 participants only

Contact

For queries before the event, please contact helder.mendes [at] easa.europa.eu (helder[dot]mendes[at]easa[dot]europa[dot]eu)

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Helicopter Vortex Ring State (VRS) Experimental Research project

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