

Minutes of the Twenty-Eighth Plenary Meeting
SC-213 Enhanced Flight Visions Systems/ Synthetic Vision Systems (EFVS/SVS)

Date: April 14 - 16, 2015

Place: Dassault Aviation, St. Cloud, France

Host: Alain Boucher, Dassault

I. Welcome and Introduction

Alain Boucher, Dassault, welcomed participants to Paris. Trent Prange, FAA, read RTCA welcome and shared the RTCA Proprietary References Policy. Minutes from the twenty-seventh plenary were shared and approved. WG1, WG2 and WG3 provided brief overviews of status. Dave Domino, WG1 chair, is retiring from Mitre. The committee is looking for a WG1 replacement.

II. WG-79

Simon Innocent, Honeywell, presented status of reactivated Eurocae WG-79. The Terms of Reference (TOR) have been approved. Participating members include EASA, Airbus, Dassault, Thales, Rockwell Collins, Honeywell, Elbit, DGAC, BAE and Diehl. Bruno Aymeric, Thales, is the chair. The workplan is the first deliverable and is planned for review in six months. WG-79 is willing to participate with WG3 and the SVS for attitude/energy awareness and could be the 1st joint document between SC-213 and WG-79. Coordination meetings between SC-213 co-chairs and WG-79 are planned for every two months.

III. WG1 PMC Comments

SVGS MASPS was presented to PMC on March 24, 2015. Substantive and editorial comments were received. Committee leadership representatives made changes to the draft document to address the comments. All changes were accepted by committee with exception of "DO-178C" wording. The committee agreed on proposing the following wording to PMC: "The DO-178 version shall be that current at time of application for certification."

IV. WG Next Steps

The current TORs contain due dates that may be unobtainable. The committee will collectively work with WG-79 to firm up and prioritize the plan and update the TORs and due dates. When the TORs are updated, DO-315C will be updated to state "Aircraft State Awareness" rather than "Attitude State Awareness". The next document to be released will be WG3 Airplane State Awareness Synthetic Vision Systems. NASA Langley will explore the possibility of hosting an operators' workshop to explore vision system technology

priorities for WG1 and WG2. Additional conversation on potential to move forward on validating models of EVS performance to ease certification process is another area to explore.

V. WG2

Randy Bailey, NASA LaRC, provided a report on an analysis of see-and-avoid in surface operations comparing EFVS vs. Non-EFVS operations. A Monte Carlo simulation was conducted to evaluate various scenarios. Tim Etherington presented results of the recent NASA EFVS study.

VI. WG3

Thea Feyereisen, Honeywell, provided a review of the initial ASA SVS draft document. The draft was updated based upon feedback from the committee.

VII. Action Items

In an effort to reduce travel costs, SC-213 and WG-79 leadership should coordinate with each other and other relevant committees to try and cluster meeting schedules.

VIII. Other

The next meeting (twenty-ninth plenary) will be hosted by Boeing, and is scheduled for July 21 – 23, 2015 in Seattle, Washington. The thirtieth plenary is tentatively scheduled for October 20-22, hosted by NASA LaRC.

IX. Attendees

Jerome Artaud, Thales	Mark Humphreys, FAA
Tony Barber, Bombardier	Simon Innocent, Honeywell
Olivier Baudson, Dassault	Terry King, FAA
Yann Beaufils, Airbus	Patrick Krohn, Universal
Emmanuel Belanger, Transport Canada	Trent Prange, FAA
Alain Boucher, Dassault	Tetsu Shimizu, Japan Int'l Tran. Inst. Transport Insitute
Fabrice Bousquet, Airbus	Carlo Tiana, Rockwell Collins
Glenn Connor, Discovery Tech. Int'l	Frans Van Gorkum, EASA
Dale Dunford, FAA	Anna Von Groote, EUROCAE
Tim Etherington, Rockwell Collins	Brian Watson, FAA
Thea Feyereisen, Honeywell	Sandy Wyatt, Honeywell
Gary Freeman, Gulfstream	Dror Yahav, Elbit
Janet Greenwood, FAA	Benoit Sempe, French DGAC
Gerard Holtorf, FAA	Gerard Boucourt, LATECOERE

Olga Chondroniual, EUROCAE
Antoine Herve, DGAC

Tiffany Winzell, Elbit
John Croft, AvWeek

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