

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

Date: July 21 - 23, 2015

Place: Boeing 2-122 Building, Seattle, Washington

Host: Paul Snow, Boeing

**I. Welcome and Introduction**

Paul and Michael Snow welcomed visitors to Boeing. Trent Prange, FAA, reminded the group of the RTCA legal policy and reviewed the new RTCA membership policy. Minutes from the twenty-eighth meeting were shared and approved. Brief overviews of WG1, WG2, WG3 and EuroCae WG79 were provided. It was proposed that beginning in 2016, SC-213 may reduce from four to two plenary meetings per year if we create a harmonized SC-213/WG79 group. If this happens, the plenary meeting length may increase from three to four days.

**II. SVGS**

Trent Prange, FAA, informed the group of FAA commitment to publish an SVGS installation AC. Public comment period for the draft AC is targeted to begin August 31. The AC intends to only address SVGS installation options that support the SA CAT I ILS as described in the FAA Order 8400.13D. AFS is not currently proposing changing the requirement for CAT II Aircraft, CAT II Trained Crews, or CAT II Aircraft Maintenance. SVGS in the SA CAT I operation will only replace the need for a HUD. LPV approaches will not be included.

**III. Industry Update**

Alain Boucher, Dassault, presented some information on the latest Dassault aircraft and displays.

**IV. WG3**

Thea Feyereisen, Honeywell, provided an update on WG3 activities. Kyle Ellis, NASA LaRC provided an overview of current and future planned NASA studies related to the CAST SEs for 200, 207, 208 and 211.

**V. WG2**

Tim Etherington, Rockwell Collins, provided an overview and update of results on the NASA 300ft RVR experiment results. He presented some video highlights for sensor and display failure examples.

**VI. Demo**

Boeing provided simulator demonstrations in two different cabs. The technology demonstrated included SVS, roll recovery symbology and synthetic runway presentation.

#### **VII. AC 120-xLS and AC 90-CAT I Status**

Bryant Welch, FAA, presented a status on the FAA plans to update CAT II/III criteria for AC 120-xLS. The structure will be very similar to AC 120-28D. The AC content and format is stabilized. All RNAV (GPS) information is deleted. SA CAT I/II is added along with CVS, SVGS and low visibility takeoff.

#### **VIII. Action Items**

- a. Patrick Krohn, Universal and Bruno Aymeric, Thales, investigate reestablishment of joint committee between SC-213 and WG-79.
- b. Patrick Krohn, Universal; Tim Etherington, Rockwell Collins; and Bruno Aymeric, Thales; investigate potential to share data on a joint access server between SC-213 and WG-79.
- c. Tim Etherington, Rockwell Collins, explore industry and government interest in establishment of a WG4 for a helicopter MASP.
- d. Trent Prange, FAA, identify FAA navigation contacts within FAA that have navigation concerns with respect to LPV approaches for SVGS. Investigate meeting opportunity between FAA and interested WG1 committee members for a meeting this fall in Washington D.C.
- e. Bruno Aymeric, Thales, will identify date of thirty-first plenary in Spring, 2016 to be hosted by Thales in Bordeaux, France.

#### **IX. Other**

The next meeting (thirtieth plenary) will be hosted by NASA LaRC, and is scheduled for October 20 – 22, 2015 in Norfolk, Virginia. The thirty-first plenary is tentatively planned as a joint meeting with WG-79 and to be hosted by Thales in Bordeaux, France potentially from April 25-28, 2016.

#### **X. Attendees**

Bruno Aymeric, Thales	William Geoghagan, NATCA
Tony Barber, Bombardier	Serge Germanetti, Airbus
Yann Beaufils, Airbus	David Grable, Universal
Alain Boucher, Dassault	Janet Greenwood, FAA
Fabrice Bousquet, Airbus	Mark Humphreys, FAA
Kevin Burnett, Sierra Nevada	Terry King, FAA
Dale Dunford, FAA	Patrick Krohn, Universal
Kyle Ellis, NASA	Andre Lamprecht, CMC
Tim Etherington, Rockwell Collins	Chris Martin, Bombardier
Thea Feyereisen, Honeywell	Terrance McCraw, Astronautics

Trent Prange, FAA  
Mark Schlegel, Bombardier  
Benoit Sempe, DGAC  
Tetsu Shimizu, Japan Int'l Tran. Inst.  
Michael Snow, Boeing

Paul Snow, Boeing  
Frans Van Gorkum, EASA  
Trish Ververs, Honeywell  
Ken Zimmerman, Rockwell Collins  
Nate Kowash, Rockwell Collins

**Prepared by Thea Feyereisen, RTCA SC213 scribe**