



**To** FSEMC **Date** March 3, 2015

**From** Sam Buckwalter  
sbuckwalter@sae-itc.org  
tel +1 443-454-0584 **Reference** 15-999/SMA-877 klp

**Subject** **Meeting Announcement**  
**Simulator Data Validation Exploratory Meeting**

**When** March 26, 2015, from 0900 to 1700  
March 27, 2015, From 0900 to 1300

**Where** Meeting Location  
Boeing Training and Flight Services  
Gatwick Campus  
Crawley Business Quarter, Manor Royal  
Crawley, West Sussex RH10 9AD  
United Kingdom  
Tel +44 1293 819 000  
Fax +44 1293 819 009

The meeting site is about 5 miles from the London Gatwick Airport (LGW).  
Hotel Information  
There are various hotels near the meeting location. Please make your reservations at the hotel of your choice.

**Instruction** Please notify ARINC Industry Activities of your intention to attend by registering online at: <http://www.aviation-ia.com/events/>.  
Dress code for this meeting is business casual.  
Comments or questions regarding any of the agenda items are invited. If you wish any material to be circulated prior to the meeting, please submit your proposals via e-mail to Sam Buckwalter by **March 23, 2015**. After this date, late materials will not be available for review prior to the meeting; they may only be introduced on the agenda with the approval of the chairman and formal consensus of the group.  
The meeting is open to all interested parties. Individuals requesting time on the agenda should contact Sam Buckwalter. The agenda will be finalized one week prior to the meeting.

## Boeing Facility Information

To facilitate smooth access to the Boeing facility, please provide the following information to Sam Buckwalter:

- Name
- Company
- Nationality

The Boeing facility has a cafeteria for coffee and lunch purchases. Attendees should plan on arriving by **0835** each morning to process through security.

## Meeting Objectives

The FSEMC Steering Committee welcomes industry professionals to an exploratory meeting about Simulator Data Validation. The meeting will be moderated by Brandon Mazzacavallo, Boeing Flight Services.

The intent of this meeting is to follow up from the success of last year's exploratory meeting held in Dallas, Texas and open up discussion to alternative means of validation of FSTDs, and share and promote new ideas and ways of optimizing regular testing and checking methods. We invite your organization to participate in this "idea generation" activity to ensure we consider ideas from across the industry. Topics will include alternate means to qualify devices in lieu or in addition to the QTG, validation data for new aircraft models that heavily rely on binary simulations, and data requirements for maintenance devices.

To kick off the discussion, the meeting will entertain the opinion that there is an overreliance on QTGs for annual validation for performance and handling of the FSTD, and offer there may be a better means to perform the same level of confidence of validating the simulations are true to the aircraft. The premise for this point is that the QTG is a valuable testing tool to validate the simulation software initially, but often does not lend itself to identify problems with the simulation software over a recurring period. However, as an industry, we spend thousands of hours repeating tests where the actual software has not changed one bit. The challenge is to develop a more optimized approach to validating the simulation software and focus more on the hardware in the loop, where there are regular areas that should be checked, and where problems often occur. This approach could be used effectively over the lifecycle of the FSTD. The meeting will introduce the concept of using flight test data along with engineering data to objectively evaluate an FSTD from a holistic point and treat the FSTD as a system – a system that may require different testing methods.

## Meeting Benefit

Operators, training device manufacturers, airframers, and support suppliers are all welcome and may gain valuable insight into the potential future of FSTD testing and performance.

## Meeting Deliverables

This is an exploratory meeting to determine if enough support exists to warrant a standards activity. If so, the working group will be tasked with developing a draft charter proposal for FSEMC Steering Committee consideration.

- If the project is approved, the working group will develop material intended to become an ARINC Standard.

**Travel  
Information**

Please arrange your own air and ground travel arrangements. The Boeing meeting facility is 5 miles from London Gatwick Airport (LGW).

**cc**

FSEMC Steering Committee