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The Future of the NAS
Starts Here

Mike Paglione

DFO – Designated Federal Official (Acting)
Aviation Research Division, ANG-E2

Research, Engineering, and Development Advisory Committee (REDAC) Meeting

Subcommittee on Aviation Safety
February 28 – March 1, 2023



Overview

- Housekeeping – hybrid meeting
- Purpose
- Agenda
- V&V perspective and links for more information...



Housekeeping – Hybrid Meeting



- Comfort breaks and lunch break built into schedule (see supplied agenda)
- Those online can utilize the chat or raise hand feature to ask questions and participate in the discussion
- Electronic Files
 - Members and others received *Agenda* and *Homework R&D Forecast Slides*
 - Anyone else needs copies of these files please email:
Cynthia.A-CTR.Mayer-Gonzales@faa.gov



Subcommittee on Aviation Safety

Purpose

- **Objective:**
Provide findings and make recommendations to the Administrator through the REDAC regarding needs, objectives, plans, approaches, content, and accomplishments for the FAA research program.
- **Goal:**
Help the FAA establish the best possible Safety R, E, & D program within the constraints of FAA's available resources.



Subcommittee on Aviation Safety Agenda 1 of 2

2023 Spring REDAC SAS Meeting

Agenda

Feb 28 – March 1, 2023

Location: RTCA HQ Located at 1150 18th St NW Suite 900, Washington, DC 20036

Zoom: Click to Join: <https://faavideo.zoomgov.com/j/1603749540>

Passcode: 298041

Phone Audio Only: Call 1-888-924-3239; enter Meeting ID: 160 374 9540; Passcode: 298041

DAY 1 (Tuesday)

- Zoom Meeting info:
 - <https://faavideo.zoomgov.com/j/1603749540>
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Feb 28 (Tuesday)

0800 - 0815		Arrival to virtual meeting/ RTCA Conf. room
0815 - 0825	Opening Remarks	Eric Neiderman (WJHTC Deputy Director)
0825 - 0835	Opening remarks/Purpose of the Meeting	Mike Paglione (Acting FAA DFO)
0835 - 0845	SAS Chair Opening & Report on REDAC Meeting	Terry McVenes (SAS Industry Chair)
0845 - 0915	Overview of August 2022 F&Rs	Mike Paglione/Terry McVenes
0915 - 1000	Update on SAS F&R titled "Detail Phased Roadmap for Artificial Intelligence (AI) and Machine Learning (ML)"	Dr. Trung T. Pham
1000 - 1015	Comfort Break	
1015 - 1030	Introduction to research forecast dialog	Mark Orr/ Mike Paglione
1030 - 1200	Domain: Aircraft Safety Assurance <ul style="list-style-type: none"> • Fire and Safety Research • Propulsion and Fuel Systems (including Aircraft Catastrophic Failure) • Advanced Materials/Structural Safety • Continued Airworthiness 	FAA/SAS dialog
1200 - 1300	Lunch Break	
1300 - 1330	Continue – Domain: Aircraft Safety Assurance domain discussion	FAA/SAS dialog
1330 - 1530	Domain: Digital Systems and Technologies <ul style="list-style-type: none"> • Digital System Safety 	FAA/SAS dialog
1530 - 1545	Comfort Break	
1545 - 1600	Domain: Environment and Weather Impact Mitigation <ul style="list-style-type: none"> • Aircraft Icing • Alternative Fuels for General Aviation 	FAA/SAS dialog
1600 - 1630	SAS F&R discussions and feedback (Day 1)	SAS members
1630 - 1645	First Day Review – Homework Assignments	Mike Paglione /Terry McVenes
1645	Adjourn	

Please remember you can mute or unmute yourself by pressing *6.



Subcommittee on Aviation Safety Agenda 2 of 2

2023 Spring REDAC SAS Meeting
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March 1 (Wednesday)

0800 - 0815		Arrival to virtual meeting/ RTCA Conf. room
0815 - 0845	Review of homework from first day	All
0845 - 1045	Domain: Human and Aeromedical Factors <ul style="list-style-type: none"> • Aeromedical Research • Flight deck/Maintenance/System Integration Human Factors 	FAA/SAS dialog
1045 – 11:00	Comfort Break	
11:00 - 11:30	Domain: Aviation Performance and Planning <ul style="list-style-type: none"> • System Safety Management/Terminal Area Safety • Unmanned Aircraft Systems 	FAA/SAS dialog
1130 - 1200	Safety continuum as applied on type certification	Bruce DeCleene
1200 - 1300	Lunch Break	
1300 - 1330	FAA Budget Update	Beth Delarosby
1330 - 1415	Improving Aviation Safety through Remotely Piloted Aircraft Technology	Brandon Suarez from Reliable Robotics
1415 - 1430	Comfort Break	
1430 - 1515	Commercial aviation safety culture	Amy Pritchett Pennsylvania State University
1515 - 1545	SAS F&R discussions and feedback (Day 2)	SAS members
1545 - 1600	Closing remarks	Terry McVenes/ Mike Paglione /Mark Orr
1600	Adjourn	

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REDAC As V&V Exercise for FAA R&D



- Validation – are we doing the right research?
 - REDAC SAS members provide independent input based on their unique industry/external perspective
 - Effective: is R&D effectively supporting certification, promoting safety, and enabling economic vitality?
 - Prioritized: is R&D positioned to ensure safety given the anticipated innovations in the aviation ecosystem?
 - Timely: is R&D keeping pace with industry changes in technology?
 - Efficient: is R&D pursuing integrated/holistic solutions?
- Verification – are we doing the research right?
 - REDAC SAS members (external experts) get opportunity to receive deep dives in the R&D projects by FAA researchers to comment on the research direction, research outputs, and expected outcomes.

For more information...



- Research Engineering and Development Advisory Committee (REDAC) Subcommittee on Aircraft Safety (SAS), see www.faa.gov/go/redac
- Reports and publications, US Department of Transportation's National Transportation Library, ROSA-P collections include:
 - [FAA Technical Library](#)
 - [FAA Civil Aerospace Medical Institute \(CAMI\) – Aerospace Medical and Human Factors Research](#)
- Videos from researchers, FAA's YouTube channel, [Faces in Aviation Research](#)
- Welcome Site for [William J. Hughes Technical Center | Federal Aviation Administration \(faa.gov\)](#)

Contact Data

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