



RTCA Paper No. 045-22/PMC-2241  
February 7, 2022

**RTCA PROGRAM MANAGEMENT COMMITTEE  
MEETING SUMMARY  
December 16, 2021**

The RTCA Program Management Committee (PMC) convened in a hybrid format at 8:30 a.m. on December 16, 2021, with some members present at RTCA and others participating via Webex. The attendance list and action items are attached.

**AGENDA ITEM 1**

**Welcome and Introductions**

- A. PMC Chairman Dr. Chris Hegarty welcomed the group, asked attendees to introduce themselves and to note their organization of affiliation. One proxy was announced (included in attendance list below).
- B. Mr. Al Secen (RTCA Vice President, Aviation Technology and Standards) reviewed virtual meeting procedures, the anti-trust statement, proprietary policy, and membership policy.
- C. Chairman Hegarty wished a happy retirement to John Moore (SC-228 Co-Chairman) and Tim Etherington (SC-213 Co-Chairman). Thank you both for all your support to the Aviation Community.

**AGENDA ITEM 2**

**Review / Approve**

- A. The summary of the September 16, 2021 meeting was approved (RTCA Paper No. 256-21/PMC-2203).
- B. The following administrative Special Committee (SC) Terms of Reference (TOR) Revisions were presented and approved:
  - SC-213 – Enhanced Flight Vision Systems/Synthetic Vision Systems – Chairman change from retiring Tim Etherington (NASA) to Thea Feyereisen (Honeywell). (RTCA Paper No. 002-22/PMC-2227)

- SC-228 – Minimum Performance Standards for Unmanned Aircraft System – Chairman change from John Moore (Collins Aerospace) to Jim Williams (JHW Unmanned Solutions LLC). (RTCA Paper No. 003-22/PMC-2228)
- SC-241 – Cockpit and Cabin Cleaning Committee – Changing to Active Monitor Status with approval of agenda item 3C. (RTCA Paper No. 004-22/PMC-222)
- SC-234 – Portable Electronic Devices (PEDs) – adding Secretary Sal Navidi (Honeywell). (RTCA Paper No. 005-22/PMC-2230)

### **AGENDA ITEM 3**

#### **Publication Consideration/Approval**

#### **A. DO-235C – *Assessment of Radio Frequency Interference Relevant to the GNSS L1 Frequency Band*, presented by SC-159, Navigation Equipment Using the Global Navigation Satellite System (GNSS)**

- Dr. Chris Hegarty, SC-159 Co-Chairman, presented.

This document was not completed in time for this PMC meeting. Due to the dependencies of other documents on this release, the group is hoping to request an out of cycle review and approval.

#### **B. DO-391 - *Aeronautical Information System Security Framework Guidance*, presented by SC-216, Aeronautical Systems Security**

- Sam Masri, SC-216 Secretary, presented.

This new document is concerned with the overarching context of the shared responsibility for Aeronautical Information System Security (AISS) through the identification and description of topics which should be addressed. It deals with shared responsibility of all relevant stakeholders who are part of civil aviation. The purpose of security in this context should be understood as ensuring safety of flight and maintaining the operation of the civil aviation infrastructure without significant disruption.

- The PMC approved the document. It will be published as DO-391 concurrently with EUROCAE ED-201A.

#### **C. DO-388A – *Guidance Document on Aircraft Cleaning and Disinfection*, presented by SC-241, Cockpit and Cabin Cleaning Committee**

- Chloe Morosetti, SC-241 Chairman, presented.

This document contains best practices and technologies for aircraft cabin and flight deck cleaning/disinfecting for use by all aircraft operators. It has been updated with the latest information and comments from the Centers for Disease Control and Prevention (CDC) and industry. Although the guidance is intended specifically for airline use, it could also be beneficial

to large charter operators, corporate and fractional ownership operators, and general aviation operators. It is intended to be a “living” document to be updated in the future as best practices and technologies improve, and so be useful for protection against this and any future pandemics. President McVenes extended a special thank you to Chloe for leading this important effort on such a short timeline. He also mentioned this endeavor was nominated for the National Aeronautic Association Collier Trophy. Although not awarded, it is quite an honor to the group for this recognition.

- The PMC approved the document. It will be published as DO-388A concurrently with EUROCAE ED-287A.

#### **AGENDA ITEM 4**

##### **Integration and Coordination Committee (ICC)**

###### **A. Spectrum and Surveillance Discussion Lead (SCs 228, 147, 186, and 209)**

- Clay Barber, ICC Chairman, presented.

As follow up to June and September presentations from SC-228 on potential guidance on future Advanced Air Mobility (AAM) operations, the ICC was tasked to bring SC-228 and other SCs as needed (possibly SC-147, SC-186, and SC-209) together for discussion on possible recommendations. Schedules have not allowed a meeting to be set up to date, so expect feedback by the March 2022 meeting.

#### **AGENDA ITEM 5**

##### **Action Item Review**

###### **A. Investigate Pulling Requirements from Documents and Making Available in Separate format - Discussion**

- Al Secen, RTCA Vice President, Aviation Technology and Standards, presented.

RTCA staff received an updated demonstration from Securboron last week. This appears to be a usable product for members but would entail a change in process. Will request demo for next PMC meeting (Action). Initial action closed.

###### **B. Ad Hoc for Spectrum Strategy Follow Up**

- Terry McVenes, RTCA President, presented.

Mr. McVenes reported the Ad Hoc determined it was in the best interest of industry to form a special committee on spectrum – RADALTs are just the tip of the iceberg – spectrum issues won’t go away. Need to have documents ahead of time; need to be more pro-active; and start working coordination up front (hopefully!). The Ad Hoc drafted a TOR and RTCA is coordinating with EUROCAE for a joint effort. A lot of folks working on short-term mitigations for RADALT issues will be needed to work this effort. Expect March 2022 as starting time frame.

PMC members agreed this is an important matter for RTCA to work and thanks to industry for its support. RTCA received 4 letters of endorsement for this effort. Mr. McVenes also thanked Ed Hahn (ALPA) for volunteering to serve as Chairman and Clay Barber (Garmin) to serve as Secretary of the SC.

Andy Roy fully supported this move as it is a very important item. He requested a presentation be given to the ICAO Frequency Spectrum Management Panel (FSMP) on RTCA's efforts (Action).

Anna von Groote advised PMC members that the concept went before the EUROCAE Council in November, and they agreed to form a joint group. The TAC will meet in January so timing will be good for a potential March kick-off. Also, Anna Guégan was accepted as a member of the ICAO FMSP.

- The PMC approved creation of a new Special Committee (SC) to concentrate on Spectrum topics. It will be designated SC-242. The TOR will be finalized at the group's first meeting and in coordination with FAA inputs (agenda item 5E).

This closes the action for the Spectrum Ad Hoc.

### **C. Add ICAO Representative to PMC invite**

- Terry McVenes, RTCA President, presented.

We are still awaiting a point of contact. Andy Roy volunteered to assist with follow up. Action still open.

### **D. Review / Adjust Inter-Special Committee Requirements Agreement (ISRA) Process**

- Al Secen, RTCA Vice President, Aviation Technology and Standards, presented.

Mr. Secen reported the RTCA staff had worked potential changes to the ISRA process but found it to be quite cumbersome and possibly may have outlived its usefulness. Chairman Hegarty provided a short history of the establishment of the ISRA process but agreed that it is providing to be too rigid to meet original objectives. He recommended it be eliminated. Mr. Secen pointed out that most SC's that need to work/coordinate with each other go direct. If any issues arise the matter is brought to the PMC.

After discussion, PMC members approved to discontinue the ISRA process from here forward. Any open ISRA's should be noted in TORs and will be closed as practical. Action closed.

Members asked how many outstanding ISRA's are in place and on what topics. RTCA Staff will provide. (Action)

#### **E. Follow-Up on FAA input on draft Spectrum SC TOR**

- Robert Bouza, Federal Aviation Administration, presented.

The FAA is still reviewing the draft TOR. They would like to gain a better understanding of the documents proposed in the TOR and how they will be used. He requested a meeting with the newly approved (agenda item 5B) SC leadership to this end. Chairman Hegarty indicated that the FAA might also view this meeting as also an opportunity to shape the scope of the SC to better serve the aviation community. (Action added meeting)

#### **F. Reach out to DAC for their actions on spectrum and surveillance activities**

- Terry McVenes, RTCA President, presented.

Mr. McVenes advised he had reached out to the new Advanced Aviation Advisory Committee (AAAC) (formally Drone Advisory Committee (DAC)) Chairman Houston Mills. Mr. Mills talked to Jay Merkle and asked that RTCA provide a presentation to the AAAC or possibly Mr. Merkle and a smaller group. More to follow at next PMC meeting. Action still open.

#### **G. File Ex Parte with FCC on SC-239 Paper Errata and Input on Data Clarification**

- Karan Hofmann, PMC Secretary, presented.

Ms. Hofmann reported the ex parte to address the September 2021 SC-239 Paper Errata approval and data clarification was filed on October 20, 2021. Action closed.

### **AGENDA ITEM 6**

#### **Discussion.**

#### **A. Out of Cycle Actions since last PMC Meeting – Presentation Summary**

- Karan Hofmann, PMC Secretary, presented.

As a reminder and for formal documentation, the following item was reviewed and approved by electronic ballot since the last PMC meeting:

- RTCA FCC Response RM-11798 from SC-228 (RTCA Paper No. 257-21/PMC-2204)

#### **B. SC-159 – Navigation Equipment Using the Global Navigation Satellite System (GNSS) – Revised TOR**

- Dr. Chris Hegarty, SC-159 Co-Chairman, presented.

The group requested changes to delivery dates on all documents. They also added a White Paper to evaluate and recommend whether BeiDou and BDSBAS are ready to be included within RTCA/EUROCAE DFMC MOPS.

There was some discussion on the various proposed dates – some representing two-year delay, while others four years. Admittedly most of the dates are out of RTCA’s control – depends on inputs from ICAO and the deployment/modernization schedules of the GNSS constellations.

Members indicated that since DO-235C (agenda item 3A) was not presented and approved, need to leave it as deliverable in the TOR.

- The proposed revised TOR with DO-235C retained in the list of products was approved (RTCA Paper No. 006-22/PMC-2231).

### **C. SC-206 – Aeronautical Information and Meteorological Data Link – Revised TOR**

- Eldridge Frazier, SC-206 Government Authorized Representative, presented.

The group requested a delivery date change for their joint MASPS for Aeronautical Information/Meteorological Data Link Services with EUROCAE WG-76. They also requested the addition of two new tasks: to work with WG-76 on their update to ED-89A (Data-Link Application System Document) and publish as new RTCA document, and a White Paper with recommendations to the PMC for any additional turbulence activities since the publication of DO-370 (Guidelines for In Situ Eddy Dissipation Rate (EDR) Algorithm Performance) in December 2017.

- The proposed revised TOR was approved (RTCA Paper No. 013-22/PMC-2236).

### **D. SC-213 – Enhanced Flight Vision Systems/Synthetic Vision Systems – Revised TOR Status**

- Patrick Krohn, SC-213 Co-Chairman, presented.

Mr. Krohn provided an update on the status of SC-213 deliverables. The group is evaluating their delivery dates and will probably approach the PMC at the June meeting for possible changes. They also presented a proposal for PMC to work with EUROCAE to convene the existing international vision system expertise and other stakeholders to identify any standards that would be of use for Urban Air Mobility. Follow-on discussion brought up possible suggestions – coordinate with SC-228 WG-4 on their MOPS (Navigation Group – Joel Wichgers and Matt Harris Task Leads); possibly reach out to EUROCAE WG-112 – VTOL (Sergiu Marzac, TPM); encourage possible workshop; and continued NASA involvement (“retiring” chairman Tim Etherington may become a NASA contractor so not expected to go away from SC-213 work).

- The presentation is posted on AerOpus (RTCA Paper No. 319-21/PMC-2221).

#### **E. SC-214 – Standards for Air Traffic Data Communication Services – Revised TOR**

- Claire Robinson, SC-214 Chairman, presented.

The group requested updates to deliverables' titles, as well as change of delivery date and adding scope to the new verification test document (which will now be joint activity with EUROCAE WG-78).

Based on ISRA status (agenda item 5D), PMC members requested to include the completion of ISRA from SC-186. (Action)

- The proposed revised TOR was approved with the addition of the ISRA (RTCA Paper No. 008-22/PMC-2233).

#### **F. SC-222 – Aeronautical Mobile Satellite (Route) Services (AMS(R)S) – Revised TOR**

- Alan Schuster Bruce, SC-222 Co-Chairman, presented.

The group requested development of two revisions to their MOPS and MASPS documents to incorporate items associated with the launch of Inmarsat Elera program and 16 satellites, expected incorporation of ATN/IPS into AMS(R)S avionics from Inmarsat SBB and Iridium Certus, and the launch of Inmarsat UAV service (Inmarsat Velaris) and Iridium Certus UAV service GLOS (Global Line of Sight).

- The proposed revised TOR was approved (RTCA Paper No. 007-22/PMC-2232).

#### **G. SC-230 – Airborne Weather Detection Systems – Revised TOR**

- Venkata Sishtla, SC-230 Member, presented.

The group requested a change to a current deliverable to add specification for radar detection of high-altitude ice crystals to DO-220A. Additionally, the group would like to evaluate the need for possible radar detection of volcanic ash per a request from the FAA and updates to the predictive windshear functionality to accommodate modern aircraft characteristic and additional types of aircraft.

- The proposed revised TOR was approved (RTCA Paper No. 009-22/PMC-2234).

#### **H. SC-236 – Standards for Wireless Avionics Intra-Communication System (WAIC) within 4200-4400 MHz – Revised TOR**

- Steve Rines, SC-236 Co-Chairman, presented.

The group requested delivery date changes for both of their documents. There have been delays due to ICAO activity, but now they are ready to press forward. They are also adding a Co-

Chairman Uwe Schwark from Airbus. The PMC members acknowledged the challenges the group has faced and appreciate the efforts to get on track.

- The proposed revised TOR was approved (RTCA Paper No. 010-22/PMC-2235).

## **I. SC-240 – Topics on Software Advancement – Revised TOR Update**

- Steve Cook, SC-240 Chairman, presented.

Dr. Cook provided an update of the work of SC-240 and presented some outstanding needs for the group. Although the group is working hard and meeting regularly (nine Plenaries since May 2020 and weekly telecons) the group is more than six months overdue on its deliverables. SG-1's document is still in work with several sections still needing to be written. While SG2's document has a solid draft, it does not meet the entire envisioned scope of the TOR.

Challenges include:

- Difficulty in attracting new entrants – reluctance to embrace new and novel approaches
- Differences in UAS/Lower Risk regulatory structures in US/Europe affecting level of similarity of SG-1 product to DO-178
- Decision to make SG-2 document a Supplement to DO-178/278 having unintended consequences
- Difficulty in attracting participants to meet face-to-face due to COVID, travel budgets

Thus, TOR updates are needed:

- Updated completion dates
- Scalable, spiral approach to fulfilling TOR desired (group not able to use due to lack of specific language interpreted as not able to do)
- Proposed title change for the SG-2 document
- Clarification on types of documents desired (stand-alone, supplement, other)
- New Chair – Dr. Cook is stepping down due to his company pulling him to other projects

President McVenes commented he is profoundly disappointed. He is very sorry to see Dr. Cook stepping down and the slow progress of the group, for which the PMC shares some responsibility as it established the original scope and objectives. Understand, establishing new software standards is a difficult task, but we need to make appropriate changes to ensure success. Any changes need to be in lock step with EUROCAE since joint effort. Dr. Cook was specifically recruited to be the Chairman – a thank you was extended, and his leadership will be missed.

Further discussion focused on difference between the FAA and EASA focus (durability and realignment means of compliance vs. open specific and certified criteria), means to still achieve objectives with these differences, relationship with DO-178 and DO-278 struggle, and new founding principles.

The next Plenary has not been set but looking ahead the group will need specific guidance on a way forward. President McVenes took an action to meet offline with EUROCAE to work through issues. (Action)



- The presentation is posted on AerOpus (RTCA Paper No. 323-21/PMC-2224).

#### **J. SC-FAS – Forum for Aeronautical Software – SC Activation and TOR Approval**

- Al Secen (RTCA Vice President, Aviation Technology and Standards) and Anna von Groote (EUROCAE Director Technical Programme) will present.

Mr. Secen and Ms. von Groote provided an update on the FAS transition to potentially a formal Special Committee/Working Group. It was noted that the FAS and SC-240/WG-117 are introspectively intertwined. Thus, we are not ready to move ahead until the SC-240/WG-117 path forward is solved. The Secretariats will get together and then get the PMC and TAC involved. Mr. Arbuckle (FAA) reminded the group of all the problems with SC-203 – we don't want to solve world hunger, but rather break down and prioritize core objectives, scope, and specifics.

#### **K. FAA Actions Taken on Previously Published Documents – Update**

- Robert Bouza (FAA) presented.

FAA Published Documents that reference published RTCA Documents, FAA Pending Documents for RTCA Documents Published, and FAA plans for RTCA Documents pending PMC approval were reviewed. Original document is posted in AerOpus (RTCA Paper No. 325-21/PMC-2226).

Highlights of discussion include:

- FAA is recommending three documents be removed from the tracking list until planned next revisions of the documents are published:
  - DO-370 awaiting results of new SC-206 recommendations on Wake Turbulence
  - DO-343D as there is not immediate use in AC
  - DO-181F waiting Change 1 publication in January 2022
- There was discussion on publication of TSO's vs. AC's
  - TSO's are a little faster, as they do not go through legal review by AGC
    - Expect about 8 months before document is published
  - AD's still longer with legal review by AGC
- PMC Members commented they greatly value these summaries
- Provided feedback that 4<sup>th</sup> column with "six months after AGC review" is not very helpful and requested it be changed to projected FAA release date
  - Mr. Bouza explained that any significant rule change needed AGC review so that was the long pole in the tent
  - The six months after AGC review is for public review and comment

#### **L. Special Committees - Chairmen's Reports, Active Inter-Special Committee Requirements Agreements (ISRA) – Review**

- Rebecca Morrison, RTCA Program Director, presented.

Reports were received from SC-237, SC-235, SC-234, SC-228, SC-227, SC-224, SC-223, SC-214, SC-209, SC-206, SC-186, SC-147, and SC-135.

SC-241 – Presented today on a document (agenda item 3C).

SC-240 – Presented an update today (agenda item 6I).

SC-239 – Presented an ECC filing recommendation (agenda item 7A).

SC-236 – Presented today on revised TOR (agenda item 6H).

SC-230 – Presented today on revised TOR (agenda item 6G).

SC-222 – Presented today on revised TOR (agenda item 6F).

SC-216 – Presented today on a document (agenda item 3B).

SC-214 – Presented today on revised TOR (agenda item 6E).

SC-213 – Presented update today (agenda item 6D).

SC-206 – Presented today on revised TOR (agenda item 6C).

SC-159 – Presented today on revised TOR (agenda item 6B) and discussed status of document (agenda item 3A).

The complete matrix and individual committee reports are posted on AerOpus (RTCA Paper No. 309-21/PMC-2218).

#### **M. International Coordination – Status Update**

- Rebecca Morrison, RTCA Program Director, will present.

Besides the normal update of activity, Terry McVenes (RTCA President), Al Secen (RTCA Vice President, Aviation Technology and Standards), Anna von Groote (EUROCAE Director Technical Programme), and Dr. Chris Hegarty (RTCA PMC Chairman) provided a summary of the annual RTCA/EUROCAE Coordination meeting held at RTCA 16-17 November. Main topics covered were reaffirmation of RTCA/EUROCAE commitment, review of non-joint activities, processes for synchronization, and a two-hour session with FAA and EASA representatives.

- The EUROCAE update is posted on AerOpus (RTCA Paper No. 308-21/PMC-2217).

#### **AGENDA ITEM 7**

##### **Other Business.**

## **A. ECC Response – SC-239 Request/Discussion**

- Seth Frick and Jean Luc Robin, SC-239 Co-Chairmen, presented.

The European Communications Committee (ECC) forwarded a Liaison Statement to RTCA Special Committee 239 (SC-239) and EUROCAE Working Group 119 (WG-119) on Radar Altimeters operating across the band 4.2-4.4 GHz and the impacts from 5G communications network. They requested information and assistance on conflict between the results of various studies and tests.

PMC members were asked for any inputs on the drafted response and provided a few edits. Mr. Hoekema thanked RTCA and EUROCAE for responding and appreciated the urgency in the reply.

A joint response will be sent back from the Secretariat level.

- The request, SC/WG inputs, presentation, and a proposed response letter from RTCA/EUROCAE Secretariats are posted on AerOpus (RTCA Paper No. 324-21/PMC-2225).

## **B. RTCA IP Policy Change - Information**

- Al Secen, RTCA Vice President, Aviation Technology and Standards, presented.

The Proprietary Reference in RTCA Documents Policy was recently updated on means to make SC members aware of the policy moving more to electronic notification (section VI) and the Commitment to License (CtL) wording with respect to compensation by the signer (section VII). This adjusted the wording in the CtL (Appendix A), deleted the Membership Application (Appendix B), and adjusted Appendix C to Appendix B.

- The new Advisory Board Approved IP Policy is posted on AerOpus (RTCA Paper No. 315-21/PD-202).

## **AGENDA ITEM 8**

### **Schedule for Committee Deliverables and Next Meeting Date**

Documents expected for the March 17, 2022, meeting:

- SC-159, Navigation Equipment Using the Global Navigation Satellite System (GNSS)
  - DO-235C – *Assessment of Radio Frequency Interference Relevant to the GNSS L1 Frequency Band* - Possible out of cycle approval
- SC-186, Automatic Dependent Surveillance Broadcast (ADS-B)
  - DO-260C Change 1 – *1090 MHz ADS-B Out MOPS* – Will be requesting out of cycle approval

- SC-209, Minimum Operational Performance Standards for ATCRBS/Mode S Transponder
  - DO-181F Change 1 – *Transponder MOPS* – Will be requesting out of cycle approval
- SC-217, Aeronautical Databases
  - New Document – *Considerations for Aeronautical Data Alternation*

Post Meeting Added Note: this document is now expected to be presented in June.

- SC-223, Internet Protocol Suite (IPS) and Aeronautical Mobile Airport Communications System (AeroMACS)
  - DO-346A – *AeroMACS MOPS*

Post Meeting Added Note: this document is now hoped to be presented in June.

The dates for the next four PMC meetings were confirmed: Thursday, March 17, 2022; Thursday, June 23, 2022; Thursday, September 15, 2022; and Thursday, December 15, 2022.

## **AGENDA ITEM 9**

### **New Action Item Summary**

See PMC Action Item Table.

*/Signed/*

Karan Hofmann, Secretary  
RTCA Program Management Committee

**CERTIFIED** to be a true and accurate report of the meeting.

*/Signed/*

Christopher Hegarty, Chairman  
RTCA Program Management Committee

**Program Management Committee – December 16, 2021  
ATTENDANCE LIST**

**PMC MEMBERS:**

Christopher	Hegarty	The MITRE Corporation Chairman
Doug	Arbuckle	Federal Aviation Administration
Clay	Barber	Garmin Ltd.
Rita	Estrada-Cavallini	Federal Aviation Administration
Nazeif	Habboub	Collins Aerospace
Ed	Hahn	Air Line Pilots Association
Jens	Hennig	General Aviation Manufacturers Association
Hette	Hoekema	European Aviation Safety Agency
Robert	Ireland	Airlines for America (partial attendance, proxy to Chairman Hegarty as needed)
Donald	Kauffman	Honeywell International, Inc.
Terrance	Kirk	Aviation Information Sharing and Analysis Center
James	McClay	Aircraft Owners and Pilots Association
Terry	McVenes	RTCA, Inc.
Bill	McWhirter	U.S. Air Force
Di	Reimold	Federal Aviation Administration Government Authorized Representative
Andrew	Roy	Aviation Spectrum Resources, Inc.
Al	Secen	RTCA, Inc.
Jessie	Turner	The Boeing Company
Heidi	Williams	National Business Aviation Association

**OTHER ATTENDEES:**

Rich	Adler	Federal Aviation Administration
Robert	Bouza	Federal Aviation Administration
Steve	Cook	Northrop Grumman
Tim	Etherington	NASA
Thea	Feyereisen	Honeywell International
Eldridge	Frazier	Federal Aviation Administration
Seth	Frick	Honeywell International
Anna	Guégan	EUROCAE
Karan	Hofmann	RTCA, Inc.
Patrick	Krohn	Universal Avionics Systems Corporation
Bob	Lee	GXA Consulting
Sam	Masri	Honeywell International

John	Moore	Collins Aerospace (Ret)
Chloe	Morosetti	United Airlines
Rebecca	Morrison	RTCA, Inc.
Thomas	Mustach	Federal Aviation Administration
Trent	Prange	Federal Aviation Administration
Sebastian	Reschenhofer	EUROCAE
Steve	Rines	Safran
Jean-Luc	Robin	Airbus
Claire	Robinson	Universal
Alan	Schuster-Bruce	Inmarsat
Nicholas	Shrout	Aviation Spectrum Resources, Inc.
Paul	Siegmund	Federal Aviation Administration
Venkata	Sishtla	Collins Aerospace
Brandon	Suarez	General Atomics
Michelle	Swearingen	Federal Aviation Administration
Steve	Van Trees	Federal Aviation Administration
Anna	von Groote	EUROCAE
Jim	Williams	Aura Network Systems
Mark	Zerr	Collins Aerospace

**PMC ACTION ITEM TABLE**

<b>TRACKING NUMBER</b> (Meeting Date and agenda item from which original action resulted)	<b>ACTION</b>	<b>ACTION ASSIGNED TO</b>	<b>DUE DATE</b>	<b>STATUS</b>
06/21/2018 Agenda Item 8C	06/21/2018 – Investigate feasibility of providing redlined versions of completed documents 09/20/2018 – Update provided, but further questions 12/13/2018 – Redirect to pulling reqs from documents and making available separate format 03/21/2019 – More structure format needed for requirements in MOPS and MASPS – prototype forthcoming 12/19/2019 – Research project has reached phase 2 funding – work continues 03/26/2020 – some delays with COVID-19 03/18/2021 – Research took different direction – determining if still possible to provide solution needed 06/17/2021 – Hope to have demo soon 09/16/2021 – Demo for RTCA staff – hope to share with PMC soon 12/16/2021 – Further update demo – set up separate action for PMC demo.	Al Secen	Dec 2021	Closed
06/11/2020 Agenda Item 4A	06/11/2020 – Ad Hoc for Spectrum Strategy Follow Up 09/10/202 – Keep group active until SC-239 Report is submitted to the FCC 12/17/2020 – Discuss means to monitor situation - either an Ad Hoc or new RTCA SC 03/18/2021 – Discussions on-going 06/17/2021 – Update provided for ongoing activities 09/16/2021 – Expect to have SC TOR for next meeting 12/16/2021 – Approval of Spectrum SC	Terry McVenes, Di Remold, Clay Barber, Chris Hegarty, Andy Roy, Anna Guégan	Dec 2021	Closed

03/18/2021 Agenda Item 7D	03/18/2021 – Add ICAO representative to PMC invite 06/17/2021 – Initial contact made, still coordinating 09/16/2021 – Still awaiting input 12/16/2021 – Still awaiting input	Terry McVenes & Karan Hofmann	Mar 2022	Open
09/16/2021 Agenda Item 4A	09/16/2021 – Review/Adjust ISRA Process (to include form) 12/16/2021 – Recommend close out active ISRAs and the remove/close down process	Al Secen	Dec 2021	Closed
09/16/2021 Agenda Item 5B	09/16/2021 – Follow up on FAA input on draft Spectrum SC TOR 12/16/2021 – Added meeting with FAA, RTCA, SC leads, & EUROCAE to discuss docs for SC-242	Robert Bouza	Mar 2022	Open
09/16/2021 Agenda Item 5E	09/16/2021 – ICC guide SC’s 228, 147, 186, and 209 SMEs for spectrum & surveillance discussion 12/16/2021 – Still scheduling meeting	ICC (Clay Barber)	Mar 2022	Open
09/16/2021 Agenda Item 5E	09/16/2021 – Reach out to DAC for their action on spectrum & surveillance activities 12/16/2021 – Contact with new AAAC Chairman – more to follow	Terry McVenes	Mar 2022	Open
09/16/2021 Agenda Items 6F&7F	09/16/2021 – File Ex Parte with FCC on SC-239 Paper Errata and input on data clarification 12/16/2021 – completed October 20, 2021	RTCA Staff	Oct 2021	Closed
12/16/2021 Agenda Item 5A	12/16/2021 – Request demo from Securborator on document formatting at next PMC meeting	RTCA Staff	Mar 2022	Open
12/16/2021 Agenda Item 5B	12/16/2021 – Presentation to ICAO Spectrum Panel on activity, SC formation, etc.	Terry McVenes and SC-242 Leadership	Feb 2022	Open
12/16/2021 Agenda Item 5D	12/16/2021 – Generate list of approved active ISRAs	Rebecca Morrison	Mar 2022	Open
12/16/2021 Agenda Item 6E	12/16/2021 – Add ISRA activity to SC-214 TOR	Karan Hofmann	Jan 2022	Open
12/16/2021 Agenda Item 6I	12/16/2021 – Regroup between Secretariats on way forward on SC-240/WG-117	RTCA and EUROCAE Staffs	Mar 2022	Open