



INTERNATIONAL CIVIL AVIATION ORGANIZATION

**TWENTY SEVENTH MEETING OF THE ASIA/PACIFIC
AIR NAVIGATION PLANNING AND IMPLEMENTATION
REGIONAL GROUP (APANPIRG/27)**
Bangkok, Thailand, 5 to 8 September 2016
Agenda Item 1A: Follow-up on the Outcome of APANPIRG/26 Meeting
**1.2: Review status of implementation of APANPIRG/26
Conclusions and Decisions**
**STATUS OF IMPLEMENTATION OF APANPIRG/26
CONCLUSIONS AND DECISIONS**

(Presented by the Secretariat)

SUMMARY

This Paper presents the follow-up action taken by ICAO and States on the APANPIRG/26 Conclusions and Decisions

Strategic Objectives:

- A: **Safety** – Enhance global civil aviation safety
- B: **Air Navigation Capacity and Efficiency** — Increase the capacity and improve the efficiency of the global aviation system
- E: **Environmental Protection** — minimize the adverse environment effects of civil aviation activities.

Refer to Para 3 for action by APANPIRG/27

1. INTRODUCTION

1.1 APANPIRG/26 adopted the table which provides for each Conclusion/Decision, the related ICAO Strategic Objective(s), the follow-up action to be taken, Organisation responsible to initiate action, expected deliverable(s) and the target date for completion. The format is in line with the ICAO Business Planning and Performance Based Approach.

2. DISCUSSION

2.1 APANPIRG/26 adopted 62 Conclusions and 5 Decisions which are presented in **Appendix A** to this Working Paper. A column is added to the table to show the recommendation made by Air Navigation Commission. Out of the 67 items listed; action has been taken to close/complete 56 Conclusions and 5 Decisions. Action on 6 Conclusions [9, 22, 28, 50, 53 & 58] is in progress.

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

- a) note the progress made on the APANPIRG/26 Conclusions and Decisions as given in **Appendix A** to this paper; and
- b) review and propose further action.

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APPENDIX A

APANPIRG/26 Conclusions/Decisions – Action Plan

| Conclusion/ Decision No --- Strategic Objective* | Title of Conclusion/Decision | Text of Conclusion/Decision | Responsibility | Deliverable | Target date | Status as of 31 August 2016 | Action by ANC |
|--|---|---|---------------------|--------------|------------------|--|------------------|
| C 26/1 A & B | Seamless ATM Plan Reporting Process- Amended Responsibility Matrix | That, on reassignment of lead responsibility by the Regional RASG-APANPIRG Coordination Meeting the endorsing body for Airborne Collision Avoidance System (ASBU B0-ACAS, Seamless ATM item 170 - Airborne Safety Systems) is transferred from CNS/SG to RASG APAC. The amended APANPIRG matrix of responsibilities placed at Appendix B to WP/14 is adopted for the APAC Region; | ICAP APAC Office | State Letter | November 2015 | COMPLETE T 8/5.1 & T 3/10.1.2- AP052/16 (CNS/ATM) dated 18 April 16. | |
| C 26/2 A & B | Adoption of the ASIA/PAC eANP | That, the following text parts and tables for Volume I and Volume II of the APAC e-ANP is endorsed and Volume III is adopted and invite ICAO to process the PfAs (Proposal for Amendments) for Volume I and Volume II of e ANP in accordance with the established procedures: a) In AOP field: Appendices A and B to WP/6; b) In ATM field: Appendices E, G, H, K, L and P to WP/7; c) In CNS field: Appendices R1, R2, R3, S1, S2, S3, S4, S5, S6 and S7 to WP/9; d) In MET field: Appendices B & C to WP/10 plus updates provided in Flimsy no 1. | ICAO APAC Office | PfAs | December 2015 | COMPLETE PfA for Vol I circulated in T11/2.1- AP0170/15 dt 10 December 2015 PfA for Vol II circulated in T11/2.1- AP010/16 dt 18 January 2016 PfA for volume I and II approved. | |

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|--|--|---|---------------------|--------------|--|---|---------------------|
| C 26/3 A & B | Guidance on charting of RESA and/or arresting system in State AIP Aerodrome Chart | Recognizing that most pilots refer to Aerodrome Charts for aeronautical information even though the information is published in State AIP, ICAO be invited to: i) Study the feasibility for the publication of RESA and/or arresting system data in Aerodrome Chart: and ii) Consider amendments, if necessary to Annex 4 to include provisions to standardise charting of RESA and /or arresting system. | ICAO APAC Office | IOM to HQ | November 2015 | COMPLETE IOM Ref.: AN 3/3 – AP- AGA0170/1 5 dated 22 September 2015 | Referred to ADOP |
| C 26/4 A & B | Sample Regulations for Water Aerodromes | That, in accordance with Decision ATMSG/2-7, the sample regulations for water aerodromes is adopted for use as a reference document in the Asia/Pacific Region. | ICAO APAC Office | State Letter | November 2015 | COMPLETE State Letter Ref.: AN 3/3 —AP144/15 (AGA) dated 22 September 2015 | |
| C 26/5 A & B | Roll out of PANS– Aerodromes | That, ICAO be invited to organize a seminar/workshop in the Asia/Pacific Region to roll out the first edition of PANS Aerodromes (Doc 9981) during first quarter of 2016. | ICAO APAC Office | IOM to HQ | November 2015 Seminar conducted from 12 to 14 July 2015. | COMPLETE IOM Ref.: AN 3/3–AP- AGA 0171/15 dated 22 September 2015 | |

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|--|--|--|-------------------------------------|-----------------------------------|---------------------------------|--|------------------|
| C 26/6 A & B | Airport Master Plan | That, recognizing the importance of long term development of an airport to cater to the growing traffic, States should encourage airport operators to develop long term airport master plan to assist in the timely phased airport expansions, thereby increasing capacity and enhancing the safety and regularity of aircraft operations, and report progress to AOPWG/4. | ICAO APAC Office APAC States | State Letter Report Status | November 2015 April 2016 | COMPLETE State Letter Ref.: AN 3/3 —AP138/15 (AGA) dated 22 September 2015 Australia, Macao, China, Philippines, Samoa, Singapore, Thailand and USA) have provided status report | |
| C 26/7 A & B | Aerodrome Carbon Emissions Management | That States: a) Support the inclusion of Aerodrome Carbon Accreditation into their State Action Plans for CO ₂ Reduction; and b) encourage aerodrome operators to consider adopting the ACERT (Airport Carbon and Emission Reporting Tool), and to participate in the ACI Airport Carbon Accreditation Programme. | ICAO APAC Office | State Letter | January 2016 | COMPLETE State Letter Ref.: AN 3/3 —AP140/15 (AGA) dated 22 September 2015 | |

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|---|--|--|---|--|---|--|--------------------------|
| C 26/8 A & B | Regional Cross-border ATFM Implementation Support | That, to support regional cross-border Air Traffic Flow Management (ATFM) progress and implementation, States are urged to: • support the multi-nodal ATFM operational trial program commencing June 2015; • ensure timely completion of planning, procurement and resource allocation to enable participation in the multi-nodal ATFM operational trial program; and • implement cross-border ATFM in accordance with the performance objectives of the Regional Framework for Collaborative ATFM. | ICAO APAC Office APAC States | State Letter Support the multi-nodal ATFM operational trial and implement cross-border ATFM | 1 October 2015 8 November 2018 | COMPLETE State Letter T 3/10.0 – AP129/15 (ATM) dated 18 September 2015 | |

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|--|---|---|------------------|---|----------------|--|------------------|
| C 26/9 A & B | Asia/Pacific Regional Framework for Collaborative ATFM | That, regarding the Asia/Pacific Regional Framework for Collaborative ATFM Version 1.0 (APANPIRG/26/WP07/Appendix A), and the Regional ATFM Concept of Operations Version 1.0 (APANPIRG/26/WP07/Appendix B), ICAO be requested to: | ICAO APAC Office | State Letter r | 1 October 2015 | COMPLETE T 3/10.0 – State Letter AP129/15 (ATM) dated 18 September 2015 | |
| | | a) make the Framework and the Concept of Operations available on the ICAO Asia/Pacific Regional Office web site, replacing the earlier APAC ATFM Regional Concept of Operations and ATFM Communications Handbook for the Asia Pacific Region; and | ICAO APAC Office | Upload of the ATFM CONOPs onto the APAC website | 1 October 2015 | COMPLETE | |
| | | b) reference the Framework within the Asia/Pacific Seamless ATM Plan. | ICAO APAC Office | Referencing with the Seamless ATM Plan during the Plan review | 1 October 2016 | IN PROGRESS | |

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|--|------------------------------------|---|--|--|--|---|------------------|
| C 26/10 A & B | ATFM Seminars/Workshops | That, ICAO be urged to facilitate Asia/Pacific ATFM Seminars/Workshops for Asia/Pacific and trans-regional States, to: a) familiarize stakeholders with the Asia/Pacific Regional Framework for Collaborative ATFM; b) assist implementation of ATFM; and c) act as a forum for further development of the Asia/Pacific Regional Framework for Collaborative ATFM, and the associated ATFM Information Requirements document and Interface Control Document (ICD). | ICAO APAC Office ICAO APAC Office | State Letter Conduct of Asia/Pacific ATFM Seminars /Workshops | 1 October 2015 1 October 2016 | COMPLETE State Letter T 3/10.0 – AP129/15 (ATM) dated 18 September 2015 COMPLETE 5 workshops were facilitated and conducted by ICAO in partnership with IATA. | |

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|--|--|---|--|-----------------------------------|---|--|---|
| C 26/13 A & B | Consistent PANS-ATM Provisions for RNP 2/RNAV 2 | That, ICAO be requested to take action to provide consistency in ICAO Doc 4444 – PANS-ATM, noting the specification of RNP 2-based separation while RNAV 2 is specified for entry in the flight plan. | ICAO APAC Office ICAO HQ | State Letter IOM to HQ | 1 October 2015 No specific date | COMPLETE State Letter T 3/10.0 – AP132/15 (ATM) dated 18 September 2015 IOM ref no. T3/10.0-AP- ATM0094/15 | Refer to AMO to reply. Sect responds that there is no inconsiste ncy because the FPL provisions allow the indication of RNP2 capability using the NAV/ indicator |

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|--|--|---|------------------|---|------------------|--|------------------|
| C 26/14 A & B | Draft Regional ATM Contingency Plan | That, regarding the Draft Asia/Pacific Regional ATM Contingency Plan version 0.2 attached as | ICAO APAC Office | State Letter | 1 October 2015 | COMPLETE State Letter T 3/10.0 – AP130/15 (ATM) dated 18 September 2015 | |
| | | APANPIRG/26/WP07/Appendix C: 1. ICAO be requested to make the Draft Regional ATM Contingency Plan available on the Asia/Pacific Regional Office website; and 2. States are urged to consider the following sections of the Draft Regional ATM Contingency Plan in the planning and development of State contingency plans and inter-State contingency agreements, pending finalization of the Regional ATM Contingency Plan: | ICAO APAC Office | Upload of the Draft Contingency Plan onto the APAC website | 1 October 2015 | COMPLETE | |
| | | a) Section 7 – Performance Improvement Plan; b) Appendix A – ATM Contingency Planning Principles; c) Appendix B – Basic Plan Elements; and d) Other relevant information and guidance provided in the document. | APAC States | States to note and take action in accordance with draft Contingency Plan expectations | No specific date | | |

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|--|-----------------------------------|--|--|--|---|--|------------------|
| C 26/15 A & B | ATS Route Catalogue Version 14 | That Version 14 of the <i>Asia and Pacific Region ATS Route Catalogue</i> at APANPIRG/26/WP07/Appendix I replaces Version 13 on the Asia/Pacific Regional Office's web site, noting that: <ul style="list-style-type: none"> Chapter A had been transitioned to the electronic Air Navigation Plan (eANP); and the remaining ATS route proposals in the ATS Route Catalogue may be amended by the ICAO Regional Office without reference to an APANPIRG Conclusion in future. | ICAO APAC Office | State Letter | 1 October 2015 | COMPLETE State Letter T 3/10.0 – AP132/15 (ATM) dated 18 September 2015 | |
| | | | ICAO APAC Office | Upload of the ATS Route Catalogue V14 onto the APAC website | 1 October 2015 | COMPLETE | |
| C 26/16 A & B | eAIP from Digital Database | That, States providing updated AIM transition information in accordance with Conclusion <i>APANPIRG/25-15</i> should advise whether their eAIP is generated from a digital database of aeronautical information. | ICAO APAC Office APAC States | State Letter States to note and take action in accordance with APAC eAIP expectations | 1 October 2015 No set date | COMPLETE State Letter T 3/10.0 – AP128/15 (ATM) dated 18 September 2015 | |

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|--|--|--|--|--|--|---|--|
| C 26/17 A & B | Interim AIM Transition Guidance | That, <i>the Guidance Manual for Aeronautical Information Services (AIS) in the Asia/Pacific Region</i> be updated to include as an appendix the Interim AIM Transition Guidance appended at APANPIRG/26/WP07/Appendix J. | ICAO APAC Office ICAO APAC Office | State Letter Append Interim AIM Transition Guidance to Regional Guidance Manual for AIS on APAC website. | 1 October 2015 1 October 2015 | COMPLETE State Letter T 3/10.0 – AP128/15 (ATM) dated 18 September 2015 COMPLETE | |
| C 26/18 A & B | AIM Transition Seminars/Workshops | That, ICAO be urged to facilitate Asia/Pacific AIM Transition Seminars/Workshops to: a) familiarize stakeholders with the new and amended ICAO publications developed by the ICAO AIS-AIM Study Group; b) assist States in developing AIM implementation plans; and c) act as a forum for further development and updating of the <i>Guidance Manual for Aeronautical Information Services (AIS) in the Asia/Pacific Region</i> . | ICAO APAC Office ICAO APAC Office | State Letter Conduct of Asia/Pacific AIM Transition Seminars/ Workshops | 1 October 2015 1 October 2016 | COMPLETE State Letter T 3/10.0 – AP128/15 (ATM) dated 18 September 2015 AAITF/11 and WS held in June 2016 | Referred to Secretariat, in conjunctio n with the updated guidance material on AIM |

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|--|---|--|---------------------|--|------------------------|--|------------------|
| C 26/19 A & B | Volcanic Ash Information Coordination and Collaboration | That, States are urged to: a) establish a mechanism to provide regular and timely updates of information during a volcanic eruption and/or ash cloud event to ensure all stakeholders are up to date with current information, situation reports and contingency planning; b) participate in volcanic ash exercises; and c) consider establishing an internal crisis management centre where applicable to support the collaborative and timely sharing of information such as volcanic eruptions, or other crises that will have a significant impact on airport and/or airspace management. | ICAO APAC Office | State Letter | 1 October 2015 | COMPLETE State Letter T 3/10.0 – AP130/15 (ATM) dated 18 September 2015 | |
| | | | APAC States | States to note and take action in accordance with APAC expectations | No specific date | | |
| C 26/20 A & B | SAR Air Navigation Report Form | That, the Search and Rescue (SAR) Air Navigation Report Form (ANRF) as appended at APANPIRG/26/WP07/Appendix M be utilised by Asia/Pacific States as a means of regional strategic SAR planning and implementation in the Asia/Pacific Region. | ICAO APAC Office | State Letter | 1 October 2015 | COMPLETE State Letter T 3/10.0 – AP134/15 (ATM) dated 18 September 2015 | |
| | | | APAC States | States to note | No specific date | | |

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|--|---------------------------------|--|------------------|---|----------------|--|-------------------------------|
| C 26/21 A & B | SAR Lessons Learnt | That, considering the implications for Search and Rescue standards from recent events which required initiation of SAR actions, ICAO, in coordination with the IMO through the ICAO/IMO Joint Working Group on Harmonisation of Aeronautical and Maritime SAR (JWG), should consider urgently updating global SAR documents from the lessons learnt. | ICAO APAC Office | State Letter IOM to HQ | 1 October 2015 | COMPLETE State Letter T 3/10.0 – AP134/15 (ATM) dated 18 September 2015 COMPLETE IOM ref no. T3/10.0 - AP- ATM0094/15 | Referred to Secretariat |

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|--|---------------------------------|--|---|--|---|---|------------------|
| C 26/22 A & B | Asia/Pacific SAR Plan | <p>That, regarding the Asia/Pacific Search and Rescue (SAR) Plan Version 1.0 attached as APANPIRG/26/WP07/Appendix R, ICAO be requested to:</p> <p>a) make the SAR Plan available on the ICAO Asia/Pacific Regional Office web site;</p> <p>b) reference the SAR Plan within the Asia/Pacific Seamless ATM Plan;</p> <p>c) add the following elements to the Asia/Pacific Seamless ATM monitoring and reporting scheme:</p> <ul style="list-style-type: none"> • SAR Regulatory and Coordination Mechanisms; • SAR Facilities and Assets; • SAR Information; • SAR Improvement; and <p>d) conduct Asia/Pacific SAR Planning and Implementation Seminars/ Workshops for Asia/Pacific States.</p> | <p>ICAO APAC Office</p> <p>ICAO APAC Office</p> <p>ICAO APAC Office</p> <p>ICAO APAC Office</p> | <p>State Letter</p> <p>IOM to HQ</p> <p>Upload of the SAR Plan onto the APAC website</p> <p>Update of the Seamless ATM Monitoring System to incorporate the four new SAR elements</p> <p>Conduct of Asia/Pacific SAR Planning and Implementation Seminars/ Workshops</p> | <p>1 October 2015</p> <p>1 October 2015</p> <p>1 December 2015</p> <p>1 July 2017</p> | <p>COMPLETE State Letter T 3/10.0 – AP134/15 (ATM) dated 18 September 2015</p> <p>COMPLETE IOM ref no. T3/10.0 - AP-ATM0094/15</p> <p>IN PROGRESS</p> <p>CLOSED</p> <p>Invitations for the SAR Seminar circulated.</p> | |

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|--|-----------------------------------|--|--|---|--|---|------------------|
| C 26/23 A & B | State SAR Planning | That, States should be urged to: a) review Version 1.0 of the Asia/Pacific SAR Plan and utilise the SAR Plan to develop planning for State implementation of applicable SAR elements; b) ensure relevant decision-makers are briefed on the SAR Plan; c) submit the first SAR Plan Seamless ATM monitoring information to the ICAO Regional Office by 01 March 2016; and d) where possible, participate and contribute to SAR Plan system collaborative training and research initiatives. | ICAO APAC Office APAC States APAC States | State Letter States to note and take action in accordance with SAR Plan expectations Submit SAR monitoring data | 1 October 2015 No specific date 1 March 2016 | COMPLETE State Letter T 3/10.0 – AP134/15 (ATM) dated 18 September 2015 | |
| D 26/24 A & B | Asia/Pacific SAR Workgroup | That, the Asia/Pacific Search and Rescue (SAR) Task Force be disestablished and an Asia/Pacific SAR Workgroup (APSAR/WG) be established in accordance with the Terms of Reference at APANPIRG/26/WP07/Appendix S. | ICAO APAC Office ICAO APAC Office | State Letter Conduct of APSAR/WG/1 | 1 October 2015 1 September 2016 | COMPLETE State Letter T 3/10.0 – AP134/15 (ATM) dated 18 September 2015 SAR WG held from 15 to 19 August 16 | |

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|--|---|---|---|--|--|---|------------------|
| C 26/25 A & B | ANS Deficiencies Relating to Data Link Performance Monitoring and Analysis | <p>That, an Air Navigation Deficiency should be raised against non-implementation of the provisions of Annex 11 Paragraph 2.27.5 when any FIT-Asia administration has implemented operational ADS-C/CPDLC services and:</p> <p>a) has not made arrangements for the reporting and analysis of data link problems to a competent CRA as identified by the Regional Airspace Safety Monitoring Advisory Group (RASMAG); or</p> <p>b) does not report data link problems to the CRA; or</p> <p>c) does not provide data link problem analysis reports to a recognized FANS Interoperability/Implementation Team (FIT); or</p> <p>d) does not provide data-link performance analysis reports to a recognized FIT.</p> | <p>ICAO APAC Office</p> <p>APAC FIT-Asia States</p> | <p>State Letter</p> <p>To note and take action in accordance with data link monitoring and analysis expectations</p> | <p>1 October 2015</p> <p>No set date</p> | <p>COMPLETE</p> <p>State Letter T 3/10.0 – AP131/15 (ATM) dated 18 September 2015</p> | |

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|--|---|---|------------------|--|----------------|--|------------------|
| C 26/26 A & B | Data Link Performance Reporting Template and Guidance | That, the revised Data Link Performance Reporting Template and Guidance at APANPIRG/26/WP08/Appendix A replaces the Data Link Performance Reporting Template on the ICAO Asia/Pacific Regional Office website. | ICAO APAC Office | State Letter | 1 October 2015 | COMPLETE State Letter T 3/10.0 – AP131/15 (ATM) dated 18 September 2015 | |
| | | | ICAO APAC Office | Upload of the Data Link Performance Reporting Template and Guidance onto the APAC website to replace the earlier version | 1 October 2015 | COMPLETE | |

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|--|---|---|--|--|---------------------------------|--|------------------|
| C 26/29 A & B | Revised AMHS Naming Plan | That, the revised AMHS Naming Plan provided in Appendix B to WP/9 is adopted. | ICAO APAC Office | State Letter and publishing on APAC Web. | September 2015 | COMPLETE State Letter Ref.: T 8/2.11, 8/2.13 & 8/10.10 — AP145/15 (CNS) dated 24 September 2015 | |
| C 26/30 A & B | Second Iteration of CRV Cost Benefit Analysis (based on RFI) | That, the second iteration of the CRV Cost Benefit Analysis provided in Appendix C (with password to access) to WP/9 is adopted and distributed to States/Administrations for their reference. | ICAO APAC Office | State Letter | September 2015 | COMPLETE State Letter Ref.: T 8/3.5 —AP148/15 (CNS) dated 6 October 2015 | |
| C 26/31 A & B | CRV preliminary Safety Analysis | That, CRV Participating States/Administrations be urged to consider the CRV safety specified in the CRV Preliminary Safety Analysis v1.0 provided in Appendix D to WP/9 as a basis for their local safety case, perform their local safety case, and report to CNS SG. | ICAO APAC Office States concerned | State Letter Report of result | September 2015 July 2016 | COMPLETE State Letter Ref.: T 8/3.5 —AP148/15 (CNS) dated 6 October 2015 | |

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|--|--|--|--|---|---------------------------------|--|------------------|
| C 26/32 A & B | CRV Cost Arrangement Framework | That, noting that cost arrangements on current telecommunications exist between some States/Administrations and considering the result of the second iteration of the CRV Cost Benefit Analysis, APAC States/Administrations be advised to: - make their own local Cost benefit analysis as needed; - start discussions of possible new or improved cost arrangement frameworks with other ICAO Member State(s)/Administration(s), based on the Request For Information results; and - endeavor to establish arrangements for mid 2016. | ICAO APAC Office States concerned | State Letter Report status of arrangements | September 2015 July 2016 | COMPLETE State Letter Ref.: T 8/3.5 —AP148/15 (CNS) dated 6 October 2015 | |
| C 26/33 A & B | Recommendations for AIDC Implementation | That, a list of recommendations provided in Appendix E to WP/9 is adopted and distributed to States/Administrations for AIDC Implementation guidance. | ICAO APAC Office | State Letter | October 2015 | COMPLETE State Letter Ref.: T 8/3.5 —AP147/15 (CNS) dated 23 September 2015 | |

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|--|--|--|------------------|--------------|----------------|--|------------------|
| C 26/34 A & B | Use of Pan regional ICD for AIDC | That, States/Administrations in the Asia/Pacific Regions are encouraged to use the Pan Regional ICD for AIDC for any planned new ATM automated system or updating ATM automated systems for AIDC function. | ICAO APAC Office | State Letter | October 2015 | COMPLETE State Letter Ref.: T 8/3.5 —AP147/15 (CNS) dated 23 September 2015 | |
| C 26/35 A & B | PBN in a page | That, the PBN-in-a-page document provided in Appendix 1A to the Report under Agenda Item 3.4 is adopted as a regional supporting material and published on the ICAO Regional Office's website. | ICAO APAC Office | State Letter | October 2015 | COMPLETE State Letter Ref.: T 8/5.1 - AP015/16 (CNS) dated 20 January 2016 | |
| C 26/36 A & B | PBN Procedure Safety Assessment Checklist and Record of Hazard Template | That, the PBN Procedure pre-implementation Safety Assessment Checklist and Record of Hazard Template provided in Appendices 1B and 1C to the Report under Agenda Item 3.4 are adopted as regional supporting materials and published on the ICAO Regional Office's website. | ICAO APAC Office | State Letter | October 2015 | COMPLETE State Letter Ref.: T 8/5.1 - AP015/16 (CNS) dated 20 January 2016 | |

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|--|--|--|------------------|---|----------------|--|------------------|
| C 26/37 A & B | Need for ionospheric models in the APAC Region | That, considering that extreme ionospheric gradients were observed in parts of APAC Region through data collection, the need for GBAS threat model is confirmed. | ICAO APAC Office | Information to ISTF & CNS SG | July 2016 | COMPLETE ISTF/6 was informed in January 2016 and CNS SG in July 2016. | |
| C 26/38 A & B | Standard for exchange and sharing of GNSS data in the APAC Region | That, considering the need for sharing GNSS data to study the ionospheric effects on navigation systems, the SCINTEX and GTEX Formats are adopted as ICAO APAC standard for exchange of GNSS data and these formats be posted on the ICAO APAC Regional Website. | ICAO APAC Office | Letter to States concerned | November 2015 | COMPLETE State Letter Ref.: T 8/5.10 - AP024/16 (CNS) dated 25 January 2016 | |
| C 26/39 A & B | Revised Navigation Strategy for the Asia/Pacific Region | That, the revised Navigation Strategy for APAC Region provided in Appendix G to WP/9 is adopted. | ICAO APAC Office | State Letter & publication on APAC Web. | October 2015 | COMPLETE State Letter Ref.: T 8/5.1 - AP015/16 (CNS) dated 20 January 2016 | |

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|--|--|--|------------------|---|----------------|--|------------------|
| C 26/40 A & B | Amendment to ADS-B Implementation and Operations Guidance Document (AIGD) | That, the consolidated amendment to the AIGD provided in Appendix H to WP/9 is adopted. | ICAO APAC Office | State Letter & publication on APAC Web. | October 2015 | COMPLETE State Letter Ref.: T 8/10.21 – AP146/15 (CNS) dated 24 September 2015 | |
| C 26/41 A & B | Approval and Monitoring Requirements for Operation using ADS-B | That, States: a) do not require operational approval for the operational use of ADS-B OUT by ATC; b) note that operational approval may be required for ADS-B IN applications where there is a safety case; c) monitor ADS-B transmissions from aircraft and take action to ensure compliance with Regional Supplementary Procedure MID/ASIA Section 5.5; and d) provide capabilities to either: - reject ADS-B data from aircraft which are known to transmit misleading ADS-B data until corrective actions have been successfully conducted; or - implement procedures to ensure that such aircraft are safely managed. | ICAO APAC Office | State Letter | October 2015 | COMPLETE State Letter Ref.: T 8/10.21 – AP154/15 (CNS) dated 2 October 2015 | |

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|--|--|---|------------------|--------------|----------------|---|------------------|
| C 26/42 A & B | Template for Promulgation of ADS-B Avionics Equipage Requirements | <p>That, based on APANPIRG Conclusion 20/54, States intending to implement ADS-B based surveillance service for a defined airspace and having not published regulations be urged to promulgate mandating rules for ADS-B Avionics Equipage Requirements as soon as possible using the following template:</p> <p>On and after dd/mm/yyyy, if an aircraft operates on airways (insert routes).....at or above FLXXX.....(or in defined airspace boundaries at or above FLXXX):</p> <p>the aircraft must carry serviceable 1090 MHz ES ADS-B transmitting equipment that has been certificated as meeting EASA AMC 20-24, or FAA AC No. 20-165A – Airworthiness Approval of ADS-B, or meets the equipment configuration standards in Appendix XI of Civil Aviation Order 20.18 of the Civil Aviation Safety Authority of Australia.</p> <p><i>Note: This Conclusion supersedes APANPIRG Conclusion 21/39 (i.e. removes any requirement for operations approval)</i></p> | ICAO APAC Office | State Letter | October 2015 | COMPLETE State Letter Ref.: T 8/10.21 – AP154/15 (CNS) dated 2 October 2015 | |

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|--|--|---|------------------|--------------|----------------|---|------------------|
| C 26/43 A & B | Guidelines for Airworthiness Approval for ADS-B Avionics Equipage | That, States be advised to use the guidelines provided in Appendix I to WP/9 for Airworthiness Approval for ADS-B OUT Avionics Equipage. <i>Note: This Conclusion supersedes APANPIRG Conclusion 21/40</i> | ICAO APAC Office | State Letter | October 2015 | COMPLETE State Letter Ref.: T 8/10.21 – AP154/15 (CNS) dated 2 October 2015 | |
| C 26/44 A & B | ADS-B OUT Forward Fit Equipage | That, States/Administrations in APAC Region be strongly encouraged to mandate that registered aircraft with a maximum certified take-off mass exceeding 5 700 kg or having a maximum cruising true airspeed capability greater than 250 knots, with a date of manufacture on or after 8 June 2018 (two years after the European forward fitment mandate is effective) be equipped with ADS-B avionics compliant with Version 2 ES (equivalent to RTCA DO260B) or later version. | ICAO APAC Office | State Letter | November 2015 | COMPLETE State Letter Ref.: T 8/10.21 — AP162/15 (CNS) dated 30 October 2015 | |
| D 26/45 A & B | Surveillance Implementation Coordination Group | That, the Surveillance Implementation Coordination Group (SURICG) be established with Terms of Reference provided in Appendix K to WP/9. | ICAO APAC Office | State Letter | March 2016 | COMPLETE State letter Ref.: T 8/10.21 AP026/16 dated 27 January 2016 | |

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|--|--|--|---------------------|--------------|-------------------|---|------------------|
| C 26/46 A & B | Inter-regional ADS-C Reporting Interval Task Force | That, a) the Terms of Reference of the inter-regional ADS-C Reporting Interval Task Force provided by NAT Implementation Management Group at Appendix M to WP/9 is endorsed; and b) States in Asia/Pacific Regions with experience of ADS-C implementation and in a position to do so, are encouraged to participate in the Task Force to contribute the study. | ICAO APAC Office | State Letter | September 2015 | COMPLETE State Letter Ref.: T 8/3.5 – AP120/15 (CNS) dated 18 September 2015 | |
| C 26/47 A & B | Strategic planning and tactical use of VHF frequencies in the APAC Region from 2015 onwards | That, the guidance on Strategic planning and tactical use of VHF frequencies in the APAC Region from 2015 onwards provided in Appendix 1D to the Report under Agenda Item 3.4 is adopted. | ICAO APAC Office | State Letter | December 2015 | COMPLETE State Letter Ref.: T 8/8.7 - AP018/16 (CNS) dated 20 January 2016 | |

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|--|--|--|---------------------|--------------|------------------|---|------------------|
| C 26/48 A & B | Transition to the new global database | That, considering that Frequency Finder and the global database were a necessary toolkit for efficient frequency management across ICAO Regions, and training on using it is needed, a) ICAO be invited to secure the resources to maintain the tool and organize a seminar/workshop on Frequency Finder in 2016; b) States secure the attendance of their Subject Matter experts to the Seminar/workshop. | ICAO APAC Office | State Letter | December 2015 | COMPLETE The Frequency Finder (FF) Workshop scheduled for 18 to 21 October 2016. The Conclusion is considered completed. Transition to the FF would commence from Dec.16 onwards | |

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|--|---|---|---------------------|--------------|------------------|--|------------------|
| C 26/49 A & B | Assignment of back up frequencies in APAC Region | <p>That, considering that the assigned number of backup frequencies should be kept to a minimum,</p> <p>1) the guidance material placed at Appendix N to WP/9 is adopted as regional guidance;</p> <p>2) States/Administrations requiring back up frequencies, where operationally feasible:</p> <ul style="list-style-type: none"> - share backup frequencies either between different services (at the same ATC center) or between different facilities (e.g. different aerodromes or different APP/ACC/FIS serves from different ATC centers); - follow the regional guidance for the backup frequencies to be assigned; and - re-coordinate the backup frequencies already assigned as necessary. | ICAO APAC Office | State Letter | December 2015 | <p>COMPLETE State Letter Ref.: T 8/8.7</p> <p>- AP018/16 (CNS) dated 20 January 2016</p> | |

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|--|---------------------------------|--|----------------------|-----------------------------|----------------|--|------------------|
| C 26/51 A & B | SIGMET Training | <p>That, ICAO, in coordination with the WMO and relevant States and organizations, considers facilitating urgent, targeted training for aeronautical meteorological service providers designated by States in the APAC Region to improve the quality, reliability and availability of SIGMET information, particularly in States with identified SIGMET deficiencies.</p> <p><i>Notes: the following specific recommendations are provided:</i></p> <p>1) <i>Follow-up training programme on SIGMET provision for the Solomon Islands (similar to the TAF training programme conducted on a bilateral basis in 2014);</i></p> <p>2) <i>Follow-up on recommendations from previous investigations into SIGMET provision in Pacific Island States (e.g., the diagnostic of MET service provision in Papua New Guinea conducted on a bilateral basis in 2014);</i></p> <p>3) <i>Encourage APAC States, in particular Papua New Guinea and the Solomon Islands, to participate in the Japan/WMO SIGMET Seminar planned for 2016, in coordination with WMO RAI/RAV; and</i></p> <p>4) <i>Coordinate with WMO on the inclusion of possible additional training on SIGMET issuance in the training workshop under the WMO Severe Weather Forecasting Demonstration Project (SWFDP) program.</i></p> | ICAO, WMO and States | Training programme proposal | March 2016 | <p>COMPLETE</p> <p>Japan, WMO and ICAO conducted SIGMET workshop in Tokyo, Japan, 27-30 June 2016. Work plan of MET/S WG and MET/IE WG updated to incorporate monitoring of regional implementation of SIGMET and provision of assistance, guidance and training to support implementation of SIGMET and assistance to resolve deficiencies in SIGMET.</p> | |

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|--|---|--|----------------|--------------|----------------|--|------------------|
| C 26/52 A & B | SADIS user States and SADIS users to prepare for cessation of SADIS 2G | <p>That, ICAO be invited to urge SADIS user States and SADIS users to ensure that they are prepared for the cessation of SADIS 2G.</p> <p><i>Notes:</i></p> <p>1) <i>For those users not yet using, or who have not yet arranged accounts for, Secure SADIS FTP, it is strongly recommended that they undertake actions to migrate to the Secure SADIS FTP service at the earliest opportunity;</i></p> <p>2) <i>Although the SADIS 2G service will continue until 31 July 2016, it is recommended that user's transition is complete and that SADIS 2G is not being used operationally after 1 June 2016; and</i></p> <p>3) <i>Users are encouraged to establish and regularly test backup accounts with the alternative provider to be used in the rare event that their normal service (Secure SADIS FTP or WIFS, as specified by the APAC Regional Air Navigation Plan, FASID Table MET 6) is unavailable.</i></p> | ICAO | State letter | September 2015 | COMPLETE State Letter Ref.: T 4/3.8.2 — AP149/15 (MET) dated 30 September 2015 | |

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|--|---|--|----------------|---|--|---|------------------|
| C 26/53 A & B | Tropical Cyclone Advisory (TCA) and SIGMET messages | That, ICAO be invited to consider updating the templates for advisory messages for tropical cyclones [Annex 3, Table A2-2] and SIGMET [and AIRMET] messages [Annex 3, Table A6-1A] to facilitate clarity and consistency of the information. | ICAO | Decision on development of Annex 3 amendment proposal | September 2016. Revised to October 2016 | IN PROGRESS Referred to METP for further consideration ¹ | |

¹ Chairperson of the ANC Working Group of the Whole for Strategic Review and Planning suggested Conclusion 26/53 be referred to METP (Appendix A to AN-WP/9025 26/02/2016 refers); ANC agreed to consider the issuance of job cards, if deemed necessary after receiving feedback from relevant expert groups (AN Min. 201-11 11/4/16 refers); therefore, it is envisaged that APANPIRG Conclusion 26/53 will be considered for action at METP/2, Montreal, Canada, 17-21 October 2016.

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|--|---|---|----------------|--------------|---|--|------------------|
| C 26/54 A & B | Improvement of OPMET data availability | That, ICAO be invited to urge APAC States to continue efforts to improve the availability of OPMET data for aerodromes listed in FASID Table MET 2A, as soon as possible, including specifically to: a) Achieve 95% availability on the SADIS/WIFS broadcast of OPMET data for the FASID Table MET 2A aerodromes listed in AOP Tables; b) Achieve 90% availability on the SADIS/WIFS broadcast of OPMET data for the FASID Table MET 2A aerodromes not listed in AOP Tables; and c) Support harmonized availability on the SADIS/WIFS broadcast of OPMET data for the FASID Table MET 2A aerodromes. | ICAO | State letter | September 2015 Delayed to incorporate new Regional ANP Tables MET (noting that FASID Table MET 2A is no longer supported in ICAO Docs) | COMPLETE State letter Ref.: T 4/3.2.6 – AP089/16 (MET) dated 24 August 2016 | |
| C 26/55 A & B | IWXXM and AMHS Survey | That, ICAO be invited to urge States to complete the survey, located at APANPIRG/26 WP/10 Appendix D, prior to 30 October 2015 to provide information on the status of planning and implementation of IWXXM and AMHS in support of MET service for international air navigation. | ICAO | State letter | September 2015 | COMPLETE State Letter Ref.: T 4/6.5 —AP151/15 (MET) dated 30 September 2015 | |

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|---|--|---|-----------------------|---|------------------------|--|--------------------------|
| C 26/56 A & B | Capacity building workshop to facilitate planning and implementation of digital exchange of aeronautical meteorological information | That, ICAO, in coordination with the WMO, be invited to organize and conduct an inter-regional workshop in the first half of 2016 to build capacity in States for digital exchange of aeronautical meteorological information. The workshop should facilitate intra- and inter-regional planning and implementation activities. | ICAO | Workshop – digital exchange of MET | Q2 2016 | COMPLETE ICAO EUR/NAT Office hosted interregional workshop 31 May to 2 June 2016 | |
| C 26/57 A & B | Survey of State Meteorological Information Supporting Air Traffic Management | That, ICAO be invited to urge States to respond to the survey, located at APANPIRG/26 WP/10 Appendix F, to gauge the types of meteorological information provided by MET services to support Air Traffic Management including Air Traffic Flow Management operations. | ICAO | State letter | September 2015 | COMPLETE State Letter Ref.: T 4/3.2.7— AP152/15 (MET) dated 1 October 2015 | |

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|--|--|---|----------------|---|---|---|------------------|
| C 26/58 A & B | Competency of aeronautical meteorological personnel | That, ICAO be invited to consider inclusion in Annex 3 of a new provision on the competency of aeronautical meteorological personnel, similar to paragraph 3.7.4 in Annex 15 (2013) on the competency of AIS personnel, with appropriate reference to relevant WMO material on competency and qualification of aeronautical meteorological personnel, in order to align the provisions concerning the required competency of operational personnel. | ICAO | Decision on development of Annex 3 amendment proposal | September 2016 Revised target date- October 2016 | IN PROGRESS Referred to METP for further consideration ² | |
| C 26/59 A & B | SIGMET Pamphlets | That, ICAO be invited to adopt the SIGMET Pamphlets, provided in APANPIRG/26 WP/10 Appendix F, as Regional guidance material and distribute to States to facilitate improved format of SIGMET information. | ICAO | State letter | September 2015 | COMPLETE State Letter Ref.: T 4/7.6 —AP156/15 (MET) dated 12 October 2015 | |

² Chairperson of the ANC Working Group of the Whole for Strategic Review and Planning noted that this issue has been addressed by the Met Divisional Meeting in 2014 and standards are being drafted by WMO and the ANB is working with WMO on including these standards in Annex 3 (Appendix A to AN-WP/9025 26/02/2016 refers); ANC agreed to consider the issuance of job cards, if deemed necessary after receiving feedback from relevant expert groups (AN Min. 201-11 11/4/16 refers); therefore, it is envisaged that APANPIRG Conclusion 26/58 will be considered for action at METP/2, Montreal, Canada, 17-21 October 2016.

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|--|---|---|----------------|--------------|----------------|--|------------------|
| C 26/60 A & B | Updates to Regional guidance material (ROBEX Handbook, ICD and SIGMET Guide) | That, ICAO be invited to publish the updated ROBEX Handbook and ICD and the new [5 th Edition] Asia/Pacific Regional SIGMET Guide, as provided in APANPIRG/26 IP/07, IP/08 and IP/09 (including additional updates provided in Flimsy No.1 and No.3), in accordance with the established procedures and to urge States to review the operations of the designated meteorological offices to ensure that OPMET information is issued in accordance with the updated Regional guidance material. | ICAO | State letter | September 2015 | COMPLETE State Letter Ref.: T 4/8.3.2 & T 4/10.2 — AP155/15 (MET) dated 6 October 2015 | |
| C 26/61 A & B | MET-ATM Collaboration at National and Sub-Regional Levels | That, States/Administrations are encouraged to strengthen MET-ATM collaboration at national and sub-regional levels, by engaging Meteorological Authorities at suitable ATM coordination meetings with a view to enhance MET support for ATM and develop harmonised requirements for MET to support ATM. | ICAO | State letter | September 2015 | COMPLETE State Letter Ref.: T 4/3.2.7 — AP158/15 (MET) dated 15 October 2015 | |

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|--|--|---|-------------------------------------|---|----------------|--|------------------|
| C 26/62 A & B | Cross-border MET Collaboration and Coordination | Recognizing the presence of SIGMET weather phenomena that straddles across boundaries, States/Administrations are encouraged to promote cross-border collaboration and coordination to harmonise the MET products of such phenomena between Meteorological Authorities to enhance MET support for ATM in the Asia/Pacific Region. | ICAO and MET/S WG (of MET SG) | Proposal for update/s to relevant guidance material (e.g. SIGMET Guide) as necessary | March 2016 | COMPLETE Proposal for amendment of SIGMET Guide was presented to MET SG/20, June 2016 and incorporated into work plan to updated SIGMET Guide to align with Am. 77 to Annex 3 (applicable Nov 2016) | |

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|--|--|--|------------------|--------------|----------------|---|------------------|
| C 26/63 A & B | International Aviation and Climate Change | That, States/Administrations in APAC Region are invited to: a) continue to consider environmental issues in the planning and implementation of regional air navigation systems; b) bring to the attention of the ICAO Secretariat specific areas where additional guidance on environmental benefits would be valuable; c) promote further collaboration with State action plan national focal points for all the operational measures that States wish to develop, implement and/or include in their action plans; d) inform State action plan national focal points of the availability of further assistance, to be provided by the ICAO Secretariat, related to the preparation and submission of States' action plans; and e) note that the ICAO Secretariat will keep PIRGs informed of its future activities and developments related to environmental protection. | ICAO APAC Office | State Letter | November 2015 | COMPLETE State Letter Ref.: AN 3/3 —AP143/15 (AGA) dated 22 September 2015 | |

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|--|--|--|-----------------------------------|--|-----------------|--|------------------|
| C 26/64 A & B | Update of ATM/AIS/SAR, AOP, CNS and MET Deficiency List | That, the list of Air Navigation Deficiencies reported and identified in ATM/AIS/SAR, AOP, CNS and MET Deficiency List be updated as detailed in Appendices A to D to APANPIRG Working Paper 11. | ICAO APAC Office States | State Letter Update Deficiency list | January 2016 | COMPLETE State Letter Ref.: AN 3/3 —AP139/15 (AGA) 22 September 2015 | |

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|--|--|--|---------------------|--------------|------------------|--|------------------|
| D 26/65 A & B | Revised APANPIRG Structure, Terms of Reference and APANPIRG Sub Group Empowerment | <p>That, in accordance with APANPIRG Decision 25/50, and to promote a more project-management-driven approach to regional air navigation planning and implementation which is guided by and aligned with regional priorities and the Global Air Navigation Plan/ASBU Strategy:</p> <p>a) the new structure of the APANPIRG and its Sub Groups is adopted as presented in Appendix B to the Report on Agenda Item 5;</p> <p>b) the revised Terms of Reference of APANPIRG Sub Groups placed at Appendix C to the Report on Agenda Item 5 is adopted;</p> <p>c) to enhance the efficiency of APANPIRG approval process, the Sub Groups are empowered to adopt Conclusions and Decisions on technical matters (especially those concerning guidance to States in the implementation of ICAO SARPs, GANP, RANP, Seamless ATM Plan) that do not have additional economic, environmental or political effects, which should be considered at a higher level at APANPIRG; and</p> <p>d) the APANPIRG Procedural Handbook be amended in accordance with the new APANPIRG Structure, Terms of Reference, project management principles [Appendix D to the Report on Agenda Item 5] and procedures to be followed for the processing of Sub Group- endorsed Conclusions and Decisions.</p> <p><i>Note: (1) the new structure of APANPIRG Sub Groups, revised Terms of Reference and empowerment shall become effective from 2017 meeting year with 2016 being used for transitional arrangement; the empowerment would be subject to further review in 2018 based on the experience gained in 2017; and (2) the amendment to the APANPIRG Procedural Handbook shall be submitted to APANPIRG/27 for endorsement.</i></p> | ICAO APAC Office | State Letter | November 2015 | COMPLETE State Letter Ref.: AN 3/3 – AP141/15 (AGA) dated 22 September 2015 | |

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|--|---|--|---|----------------|-----------------|---|------------------|
| D 26/66 A & B | Review Terms of Reference of Contributory Bodies under the APANPIRG Sub Groups | That, the Secretariat, in consultation with Chairs of the existing Task Forces and Working Groups under the APANPIRG Sub Groups, reviews the TOR as necessary, and submits to the respective Sub Groups and APANPIRG/27 for further review and adoption. | ICAO APAC Office/ Working Group & Task Force Chairs | Revised TOR | July 2016 | COMPLETE Letter Ref.: AN3/3-AP- AGA0005/1 6 dated 11 January 16. | |
| D 26/67 A & B | Dissolution of ABSRTF | That, the ABSRTF having completed its task as set out in its Terms of Reference, is dissolved. | ICAO APAC Office | State Letter | October 2015 | COMPLETE State Letter Ref.: AN 3/3.1 – AP142/15 (AGA) dated 22 September 2015 | |

— END —