

INTERNATIONAL CIVIL AVIATION ORGANIZATION

TWENTY NINTH MEETING OF THE ASIA/PACIFIC AIR NAVIGATION PLANNING AND IMPLEMENTATION REGIONAL GROUP (APANPIRG/29)

Bangkok, Thailand, 3 to 5 September 2018

Agenda Item 4: Regional Air Navigation Deficiencies

STATUS OF AIR NAVIGATION DEFICIENCIES IN THE ASIA/PAC REGION

(Presented by the Secretariat)

SUMMARY

One of the main objectives of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) is to identify and address specific deficiencies in the air navigation field. This Paper presents a list of Air Navigation Deficiencies reviewed by the 28th Meeting of APANPIRG (APANPIRG/28, September 2017) in the ATM, AOP, CNS and MET fields and updated based on information provided by States during the Sub-Group/Working Group Meetings for review and action by APANPIRG/29. The list is based on the uniform methodology for the identification, assessment and reporting of such Deficiencies as described in Part V of the *APANPIRG Procedural Handbook*.

This paper presents the List of Deficiencies.

This paper relates to – 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.

Action by APANPIRG/29 is at Para 3.

1. INTRODUCTION

1.1 Under the Terms of Reference, the APANPIRG has been regularly reviewing the status of implementation of the Asia Pacific Air Navigation Plan through its subgroups to identify and address the air navigation Deficiencies according to the uniform methodology approved by the ICAO Council. In meeting this objective, APANPIRG facilitates the development and implementation of action plans by States to resolve identified Deficiencies, where necessary.

2. DISCUSSION

2.1 The lists of Deficiencies in the various air navigation fields, as reviewed by APANPIRG/28 and updated by the respective Sub-groups and the Secretariat, are presented in **Appendices A to D**.

2.2 Deficiencies in the ATM/AIS/SAR fields

- 2.2.1 The Sixth Meeting of the ATM Sub-group (ATM/SG/6, 30 July 3 August 2018) reviewed and updated the List of ATM Deficiencies based on information provided by concerned States.
- 2.2.2 The updated List of Air Navigation Deficiencies in the ATM/AIS/SAR field is given in **Appendix A** to this paper.

2.3 <u>Deficiencies in the AOP field</u>

- 2.3.1 The Second Meeting of AOP Sub-group (AOP/SG/2, 27 29 June 2018) reviewed and updated the List of AOP Deficiencies based on the information provided by the concerned States.
- 2.3.2 The updated List of Air Navigation Deficiencies in the AOP field is given in **Appendix B** to this paper.

2.4 Deficiencies in the CNS field

- 2.4.1 The Twenty Second Meeting of the CNS Sub-group (CNS/SG/22, 16 20 July 2018) reviewed and updated the list of Air Navigation Deficiencies in the CNS field.
- 2.4.2 The updated List of Air Navigation Deficiencies in the CNS field is given in **Appendix C** to this paper.

2.5 Deficiencies in the MET fields

- 2.5.1 The Twenty Second Meeting of MET Sub-group (MET/SG/22, 18 21 June 2018) reviewed and updated the list of Air Navigation Deficiencies in the MET Field.
- 2.5.2 The updated List of Air Navigation Deficiencies in the MET filed is in **Appendix D** to this paper.
- 2.6 The Meeting is invited to adopt the following draft Conclusion:

| Draft Conclusion APANPIRG/29/XX – Update of information Deficiencies Reporting Form | on in APANPIRG Air Navigation |
|---|---|
| What: that, States/Administrations be urged to: a) establish action plan with defined target dates for resolution of deficiencies, update the status on the corrective action taken and report progress in the Reporting Form of Air Navigation Deficiencies identified in ATM/SAR/AIM, AOP, CNS and MET fields as detailed in Appendices A to D of APANPIRG/29 Working Paper 15; and b) update contact details of a Focal Point to coordinate actions to resolve the Deficiencies. | Expected impact: Political / Global Economic Environmental Inter -Regional Ops/Technical |
| Why: The resolution of air navigation deficiencies in the ATM, SAR, AIM, AOP, CNS and MET fields (in the APANPIRG database) have lacked significant progress over several years, due in part to inadequate information in the | Follow-up: ⊠Required from States |

| Reporting Form, e.g., infrequent updates and lack of concise and concrete Corrective Action Plans with defined target dates | |
|---|--|
| When: official reports providing full details of the corrective actions taken where deficiencies have been resolved be reported to sub-groups in 2019. | Status: Draft to be Adopted by PIRG |
| Who: □Sub groups ☑APAC States ☑ICAO APAC RO | □ICAO HQ □Other |

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

- a) note the current status of the Deficiencies in the air navigation field as presented in **Appendices A to D** and update them based on additional information provided at the Meeting;
- b) decide on the further action required for the elimination of the identified deficiencies; and
- c) adopt the above draft Conclusion.

ATM/AIM/SAR Deficiencies List (Updated 03 August 2018)

| | D | Deficiencies | | | | |
|-------------------|--|---------------------|--|-------------------|-------------|-------------|
| States/facilities | Description | Date first reported | Remarks | Executing body | Target date | Priority ** |
| | WGS-84 Requirements of Paragraph 3.7.1 of Annex 15 | | | | | |
| Afghanistan | WGS-84 - Not implemented | 24/6/2014 | | Afghanistan | TBD | A |
| Bangladesh | WGS-84 - Not implemented | 24/6/2014 | | Bangladesh | TBD | A |
| Bhutan | WGS-84 - Not implemented | 2/7/1999 | Data conversion completed, but not published | Bhutan | TBD | A |
| Brunei Darussalam | WGS-84 - Not implemented | 24/6/2014 | | Brunei Darussalam | TBD | A |
| Cook Islands | WGS-84 - Not implemented | 24/6/2014 | | Cook Islands | TBD | A |
| Marshall Islands | WGS-84 - Not implemented | 24/6/2014 | | Marshall Islands | TBD | A |
| Micronesia | WGS-84 - Not implemented | 24/6/2014 | | Micronesia | TBD | A |
| Nauru | WGS-84 - Not implemented | | Conferring with consultant | Nauru | TBD | A |
| Palau | WGS-84 - Not implemented | 24/6/2014 | | Palau | TBD | A |
| Samoa | WGS-84 - Not implemented | 24/6/2014 | | Samoa | TBD | A |
| Thailand | WGS-84 - Not implemented | 24/6/2014 | | Thailand | TBD | A |
| Vanuatu | WGS-84 – Not implemented | 2/7/1999 | Implemented at main airports | Vanuatu | 1999 | A |
| | AIP Format Requirements of Chapter 4 of Annex 15 | | | | | |

| | D | Deficiencies | | | | |
|-------------------|---|---------------------|--|-------------------|-------------|-------------|
| States/facilities | Description | Date first reported | Remarks | Executing body | Target date | Priority ** |
| Kiribati | AIP Format - Not implemented | 7/7/99 | ATM/AIS/SAR/SG/18 (June 2009) was advised AIP in draft stage | Kiribati | | A |
| Nauru | AIP Format - Not implemented | 7/7/99 | ATM/AIS/SAR/SG/18 (June 2008) was advised work soon to start | Nauru | | A |
| | AIS Quality Management System Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented | | | | | |
| Afghanistan | AIS Quality Management System - Not implemented | 24/6/2014 | | Afghanistan | TBD | A |
| Bangladesh | AIS Quality Management System - Not implemented | 24/6/2014 | | Bangladesh | TBD | A |
| Bhutan | AIS Quality Management System - Not implemented | 24/6/2014 | | Bhutan | TBD | A |
| Brunei Darussalam | AIS Quality Management System - Not implemented | 24/6/2014 | | Brunei Darussalam | TBD | A |
| Cambodia | AIS Quality Management System - Not implemented | 24/6/2014 | | Cambodia | TBD | A |
| Cook Islands | AIS Quality Management System - Not implemented | 24/6/2014 | | Cook Islands | TBD | A |

| | Г | Deficiencies | | | | |
|-------------------|---|---------------------|---------|------------------|-------------|----------|
| States/facilities | Description | Date first reported | Remarks | Executing body | Target date | Priority |
| Indonesia | AIS Quality Management System - Not implemented | 24/6/2014 | | Indonesia | TBD | A |
| Kiribati | AIS Quality Management System - Not implemented | 24/6/2014 | | Kiribati | TBD | A |
| Lao PDR | AIS Quality Management System - Not implemented | 24/6/2014 | | Lao PDR | TBD | A |
| Maldives | AIS Quality Management System - Not implemented | 24/6/2014 | | Maldives | TBD | A |
| Marshall Islands | AIS Quality Management System - Not implemented | 24/6/2014 | | Marshall Islands | TBD | A |
| Micronesia | AIS Quality Management System - Not implemented | 24/6/2014 | | Micronesia | TBD | A |
| Myanmar | AIS Quality Management System - Not implemented | 9/6/2016 | | Myanmar | TBD | A |
| Nauru | AIS Quality Management System - Not implemented | 24/6/2014 | | Nauru | TBD | A |
| Nepal | AIS Quality Management System - Not implemented | 24/6/2014 | | Nepal | TBD | A |
| Palau | AIS Quality Management System - Not implemented | 24/6/2014 | | Palau | TBD | A |
| Philippines | AIS Quality Management System - Not implemented | 24/6/2014 | | Philippines | TBD | A |
| Samoa | AIS Quality Management System - Not implemented | 24/6/2014 | | Samoa | TBD | A |
| Solomon Islands | AIS Quality Management System - Not implemented | 24/6/2014 | | Solomon Islands | TBD | A |

| | D | eficiencies | | Corre | ective Action | |
|----------------------------|--|---------------------|--|-----------------|--|-------------|
| States/facilities | Description | Date first reported | Remarks | Executing body | Target date | Priority ** |
| Sri Lanka | AIS Quality Management System - Not implemented | 9/6/2016 | | Sri Lanka | TBD | A |
| Thailand | AIS Quality Management System - Not implemented | 24/6/2014 | | Thailand | TBD | A |
| Timor-Leste | AIS Quality Management System - Not implemented | 24/6/2014 | | Timor-Leste | TBD | A |
| Vanuatu | AIS Quality Management System - Not implemented | 24/6/2014 | | Vanuatu | TBD | A |
| | Airspace Classification Requirements of Paragraph 2.6 of Annex 11 | | | | | |
| China | Airspace Classification - Not implemented | 7/7/99 | Difference to Annex 11 is published in AIP, China. | China | APANPIRG/1 9 updated, implementatio n planned by end 2010. | A |
| Macau, China (proposed) | Airspace Classification - Not implemented | 05/09/2018 | | Macau, China | TBD | A |
| Nauru | Airspace Classification - Not implemented | 7/7/99 | | Nauru | TBD | A |
| Solomon Islands | Airspace Classification - Not implemented | 7/7/99 | | Solomon Islands | TBD | A |
| | ATS Message Addressing Requirements of Doc 4444 PANS- ATM Section 11.4 (Message Types and their Application) | | | | | |

Appendix A

| | | Deficiencies | | Corre | ective Action | |
|--------------------------|--------------------------|---------------------|--|-------------------|---------------|-------------|
| States/facilities | Description | Date first reported | Remarks | Executing body | Target date | Priority ** |
| Bangladesh (Proposed) | DEP message transmission | 05/09/2018 | DEP messages inconsistently transmitted Conclusion APANPIRG/27/12 and ICAO correspondence | Bangladesh | TBD | A |
| India | DEP message transmission | 05/09/2018 | DEP messages inconsistently transmitted Conclusion APANPIRG/27/12 and ICAO correspondence | India | TBD | A |
| Indonesia | DEP message transmission | 05/09/2018 | DEP messages inconsistently transmitted Conclusion APANPIRG/27/12 and ICAO correspondence | India | TBD | A |
| Malaysia | DEP message transmission | 05/09/2018 | DEP messages inconsistently transmitted Conclusion APANPIRG/27/12 and ICAO correspondence | Malaysia | TBD | A |
| Myanmar | DEP message transmission | 05/09/2018 | DEP messages inconsistently transmitted Conclusion APANPIRG/27/12 and ICAO correspondence | Myanmar | TBD | A |
| Philippines | DEP message transmission | 05/09/2018 | DEP messages inconsistently transmitted Conclusion APANPIRG/27/12 and ICAO correspondence | Philippines | TBD | A |
| Republic of Korea | DEP message transmission | 05/09/2018 | DEP messages inconsistently transmitted Conclusion APANPIRG/27/12 and ICAO correspondence | Republic of Korea | TBD | A |

| | D | Deficiencies | | | | Corrective Action | | | |
|-------------------|--|---------------------|--|----------------|--|-------------------|--|--|--|
| States/facilities | Description | Date first reported | Remarks | Executing body | Target date | Priority | | | |
| USA | DEP message transmission | 05/09/2018 | DEP messages inconsistently transmitted Conclusion APANPIRG/27/12 and ICAO correspondence | USA | TBD | A | | | |
| | SAR capability: Requirements of Annex 12 | | | | | | | | |
| Afghanistan | SAR Capability Matrix | 6/07/2015 | SAR Capability (no data) | Afghanistan | 2016 | U | | | |
| Bhutan | SAR Capability Matrix | 6/07/2015 | SAR Capability (no data) | Bhutan | 2016 | U | | | |
| Cambodia | SAR Capability Matrix | 6/07/2015 | SAR Capability (14 of 20) | Cambodia | 2016 | U | | | |
| Cook Islands | SAR Capability Matrix | 6/07/2015 | SAR Capability (19 of 20) | Cook Islands | 2016 | U | | | |
| Cook Islands | Annex 12 requirements not implemented. No agreements with adjacent States. | 31/1/95 | Cook Islands - implement Annex 12 requirements and co-ordinate LOA with adjacent States ICAO - assist to develop SAR capability and to co-ordinate with adjacent States | Cook Islands | 2009. SAR agreement with New Zealand completed 2007. | U | | | |
| DPR Korea | SAR Capability Matrix | 6/07/2015 | SAR Capability (15 of 20 elements non-compliant) | DPR Korea | 2016 | U | | | |
| Fiji | SAR Capability Matrix | 6/07/2015 | SAR Capability (13 of 20 elements non-compliant) | Fiji | 2016 | U | | | |
| Kiribati | SAR Capability Matrix | 6/07/2015 | SAR Capability (no data) | Kiribati | 2016 | U | | | |

| | | Deficiencies | | Corr | ective Action | |
|-------------------|-----------------------|---------------------|---|------------------|---------------|----------|
| States/facilities | Description | Date first reported | Remarks | Executing body | Target date | Priority |
| Lao PDR | SAR Capability Matrix | 6/07/2015 | SAR Capability (10 of 20 elements non- compliant) | Lao PDR | 2016 | U |
| Macau, China | SAR Capability Matrix | 6/07/2015 | SAR Capability (10 of 20 elements non- compliant) | Macau, China | 2016 | U |
| Maldives | SAR Capability Matrix | 6/07/2015 | SAR Capability (9 of 20 elements non- compliant) | Maldives | 2016 | U |
| Marshall Islands | SAR Capability Matrix | 6/07/2015 | SAR Capability (no data elements non- compliant) | Marshall Islands | 2016 | U |
| Micronesia | SAR Capability Matrix | 6/07/2015 | SAR Capability (20 of 20 elements non- compliant) | Micronesia | 2016 | U |
| Myanmar | SAR Capability Matrix | 6/07/2015 | SAR Capability (17 of 20 elements non- compliant) | Myanmar | 2016 | U |
| Nauru | SAR Capability Matrix | 6/07/2015 | SAR Capability (no data elements non- compliant) | Nauru | 2016 | U |
| Nepal | SAR Capability Matrix | 6/07/2015 | SAR Capability (12 of 20 elements non- compliant) | Nepal | 2016 | U |
| Palau | SAR Capability Matrix | 6/07/2015 | SAR Capability (no data) | Palau | 2016 | U |
| Papua New Guinea | SAR Capability Matrix | 6/07/2015 | SAR Capability (11 of 20 elements non- compliant) | Papua New Guinea | 2016 | U |

| | I | Deficiencies | | Corre | ective Action | |
|--|---|---------------------|---|-----------------------|---------------|-------------|
| States/facilities | Description | Date first reported | Remarks | Executing body | Target date | Priority ** |
| Philippines | SAR Capability Matrix | 6/07/2015 | SAR Capability (12 of 20 elements non- compliant) | Philippines | 2016 | U |
| Samoa | SAR Capability Matrix | 6/07/2015 | SAR Capability (no data elements non- compliant) | Samoa | 2016 | U |
| Solomon Islands | SAR Capability Matrix | 6/07/2015 | SAR Capability (no data) | Solomon Islands | 2016 | U |
| Timor-Leste | SAR Capability Matrix | 6/07/2015 | SAR Capability (no data) | Timor-Leste | 2016 | U |
| Tonga | SAR Capability Matrix | 6/07/2015 | SAR Capability (18 of 20 elements non- compliant) | Tonga | 2016 | U |
| Vanuatu | SAR Capability Matrix | 6/07/2015 | SAR Capability (no data) | Vanuatu | 2016 | U |
| | Non Provision of Safety-related Data Requirement of Paragraph 3.3.5.1 of Annex 11 (provision of data for monitoring the height-keeping performance of aircraft) and APANPIRG Conclusion 16/6 – Non Provision of safety related data by States | | | | | |
| Bangladesh (proposed by RASMAG/23) | Annex 11 requirement not implemented | 13/07/2017 | Conclusion 16/6 Non Provision of safety related data by States, established by RASMAG/22 — Failure to submit 2016 — TSD — Failure to provide sufficient feedback regarding RVSM approval data | Bangladesh | RASMAG23 | A |

| | D | eficiencies | | Correc | ctive Action | |
|---|--|---------------------|--|-----------------------|--------------|-------------|
| States/facilities | Description | Date first reported | Remarks | Executing body | Target date | Priority ** |
| French Polynesia (proposed by RASMAG/23 | Non-provision of safety related data | 05/07/2018 | Failure to submit the 2017 TSD | French Polynesia | RASMAG23 | A |
| India | Annex 11 requirement not implemented. Non-provision of safety related data | 13/07/2017 | Conclusion 16/6 Non Provision of safety related data by States, established by RASMAG/22 Failure to provide sufficient feedback regarding RVSM approval data Failure to submit RVSM approvals for a large number of aircraft, most of which have also been reported in 2016. | India | RASMAG23 | U |
| Lao PDR (proposed by RASMAG/23) | Annex 11 requirement not implemented. Non-provision of safety related data | 13/07/2017 | Conclusion 16/6 Non Provision of safety related data by States, established by RASMAG/22 — Failure to submit 2016 — TSD — Failure to provide RVSM approvals update and RVSM annual snapshot Failure to submit the annual RVSM approval snapshot for 3 consecutive years | Lao PDR | RASMAG23 | A |
| Maldives (proposed by RASMAG/23) | Annex 11 requirement not implemented | 13/07/2017 | Conclusion 16/6—Non Provision of safety related data by States, established by RASMAG/22 ——Failure to submit LHD reports and 2016 TSD | Maldives | RASMAG23 | A |
| Nepal (proposed for RASMAG/23) | Annex 11 requirement not implemented | 05/07/2018 | Conclusion 16/6 Non Provision of safety related data by States, established by RASMAG/23 | Nepal | TBD | A |
| Thailand (proposed for RASMAG/23) | Annex 11 requirement not implemented. Non provision of safety related data | 13/07/2017 | Failure to submit the annual RVSM approval snapshot for 2 consecutive | Thailand | RASMAG23 | A |

| | D | eficiencies | | Corre | ective Action | |
|---|---|---------------------|--|-----------------|---------------|-------------|
| States/facilities | Description | Date first reported | Remarks | Executing body | Target date | Priority ** |
| | | | years | | | |
| | State Responsibility to comply with the | | | | | |
| | Annex 6 Height-Keeping Monitoring | | | | | |
| | Requirement Annex 6 Part I Section | | | | | |
| | 7.2. 79 (10 th Ed.) and Part II Section 2.5.2. 7 10 (9 th Ed.) | | | | | |
| Afghanistan (proposed by RASMAG/23) | Non-compliance with LTHM requirement (remaining monitoring burden more than 30%) | RASMAG/ 23 | Remaining monitoring burden of 38% reported in RASMAG/23 | Afghanistan | RASMAG24 | A |
| Bangladesh | Non-compliance with LTHM requirement regarding the monitoring burden of more than 50% airframes to be monitored (remaining monitoring burden more than 30%) | RASMAG/ 22 | Remaining monitoring burden of 44% reported in RASMAG/23 | Bangladesh | RASMAG24 | A |
| Indonesia (proposed by RASMAG/23) | Non-compliance with LTHM requirement regarding the monitoring burden of more than 50% airframes to be monitored (remaining monitoring burden more than 30%) | RASMAG/ 23 | Remaining monitoring burden of 42% reported in RASMAG/23 Revised number as of August 2018 is 30.1% | Indonesia | RASMAG24 | A |
| Malaysia (proposed by RASMAG/23) | Non-compliance with LTHM requirement (remaining monitoring burden more than 30%) | RASMAG/ 23 | Remaining monitoring burden of 38% reported in RASMAG/23 | Malaysia | RASMAG24 | A |
| Myanmar (proposed by RASMAG/23) | Non-compliance with LTHM requirement (remaining monitoring burden more than 30%) | RASMAG/ 23 | Remaining monitoring burden of 36% reported in RASMAG/23 | Myanmar | RASMAG24 | A |
| Pakistan | Non-compliance with LTHM requirement regarding the monitoring burden of more than 50% airframes to be monitored (remaining monitoring burden more than 30%) | RASMAG/ 22 | Remaining monitoring burden of 69% reported in RASMAG/23 | Pakistan | RASMAG24 | A |
| The Philippines | Non-compliance with LTHM requirement regarding the monitoring burden of more than 50% airframes to be monitored (remaining monitoring burden | RASMAG/ 23 | Remaining monitoring burden of 30% (30.1%) reported in RASMAG/23 | The Philippines | RASMAG24 | A |

| | 1 | Deficiencies | | Corre | ctive Action | |
|---------------------------------------|--|---------------------|---|----------------------|---|-------------|
| States/facilities | Description | Date first reported | Remarks | Executing body | Target date | Priority ** |
| | more than 30%) | | | | | |
| | Data Link Performance Monitoring | | | | | |
| | and Analysis Requirements of Paragraph 2.28 and/or 3.3.5.2 of Annex 11 not met | | | | | |
| Fiji (proposed for RASMAG/23) | Post-implementation monitoring not implemented | 25/06/2018 | Problem reports not provided to CRA. Performance monitoring and analysis not reported to FIT | Fiji | TBD | A |
| India | Post-implementation monitoring not implemented | 13/07/2017 | Performance monitoring and analysis was reported for the Chennai FIR, but was not reported for the Kolkata and Mumbai FIRs. | India | TBD | A |
| Indonesia (proposed for RASMAG/23) | Post implementation monitoring not implemented | 29/5/2015 | Problem Reports not provided to CRA. Performance monitoring and analysis was conducted, but problem reports were not provided to the CRA. | Indonesia | TBD | A |
| Malaysia (proposed by RASMAG/23) | Post-implementation monitoring not implemented | 29/5/2015 | Problem Reports not provided to CRA. Performance monitoring and analysis not reported to FIT. | Malaysia | TBD | A |
| Myanmar (proposed by RASMAG/23) | Post-implementation monitoring not implemented | 29/5/2015 | Problem Reports not provided to CRA. Performance monitoring and analysis not reported to FIT. | Myanmar | TBD | A |
| Maldives | Post-implementation monitoring not implemented | 29/5/2015 | Problem Reports not provided to CRA. Performance monitoring and analysis not reported to FIT. | Maldives | TBD | A |
| Sri Lanka (proposed by RASMAG/23) | Post implementation monitoring not implemented | 29/5/2015 | Problem Reports not provided to CRA. Problem reports were not provided to CRA, performance monitoring and analysis was not reported to FIT, but Sri Lanka was now registered with a competent CRA. Agreed by FIT Asia/5 6, endorsed by RASMAG/21 22 | Sri Lanka | Post Implementatio n Monitoring partially implemented. Data Link Reporting based on the | A |

| | D | eficiencies | | Corre | ctive Action | |
|-------------------------------------|--|---------------------|--|----------------|--|-------------|
| States/facilities | Description | Date first reported | Remarks | Executing body | Target date | Priority ** |
| | | | | | SITA AIRCOM ATS 622 Traffic & Performance Report will be submitted on monthly basis from Sept 2017 onward. Data Link Performance Reports will be submitted to FIT with effect from Feb 2018. (Target date) (APANPIRG/ 28) | |
| Viet Nam (proposed by RASMAG/23) | Post implementation monitoring not implemented | 29/5/2015 | Performance monitoring and analysis not reported to FIT. | Viet Nam | TBD | A |

^{**} Note: In accordance with the APANPIRG Handbook - Asia/Pacific Supplement to the Uniform Methodology for the Identification, Assessment and Reporting of Air Navigation Deficiencies, priority for Air Navigation Deficiencies is guided by the principle that a deficiency with respect to an ICAO Standard is accorded a "U" status, while a non-compliance with a Recommended Practice or a PANS is considered as "A" or "B" subject to additional expert evaluation. The final prioritization of deficiencies is the prerogative of APANPIRG.

APANPIRG/29 – WP/15 Appendix B - Revision 1

AIR NAVIGATION DEFICIENCIES IN AOP FIELD IN THE ASIA/PACIFIC REGION

Updated on 30 August 2018

| Identi | fication | | Deficie | ncies | | Corrective Action | | | |
|-----------------------|--|---------------------|---|---|--|---|--|-----------------------|--|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** | |
| Annex 14, Volume I | Nepal Kathmandu International Airport | Runway/ taxiways | ICAO Mission of February 2008 | Provision of RESA in accordance with section 3.5 of ICAO Annex 14, Volume I. | RESA will be provided | Tribhuvan International airport/ CAAN | Estimated Implementation Date (Start of work): 06/08/2017 dated of completion 31/01/2019 | U | |
| | | | | Insufficient runway strip, refer recommendations given in section 3.4 of Annex 14, Volume I. | Provide runway strip as per ICAO recommendations | | Master Plan Review of TIA is in process from Intl. Consulting firm. | A | |

| Requirements States/facilities Description Date first reported Remarks Description Executing body Target da completion Maldives Maldives Maldives Maldives Maldives Maldives Maldives Maldives | |
|---|--|
| Maldives | n action** |
| Annex 14, Volume I Male International Airport Velana International Airport 2008 Runway: Apron is still with runway strip. Runway strip of I both sides is avail able attention on ge estimated date of December 2018. Exemption grante and ill December 2018. Apron is still with runway strip. Runway strip of I both sides is avail Apron is still with runway strip. Runway strip of I both sides is avail Apron is still with runway strip. Runway strip of I both sides is avail Apron is still with runway strip. New master plan a progress, new run construction on-ge estimated date of December 2018. Exemption grante are runway strip. Runway strip of I both sides is avail Apron is still with runway strip. Runway strip of I both sides is avail Apron is still with runway strip. Runway strip of I both sides is avail Apron is still with runway strip. Runway strip of I both sides is avail Apron is still with runway strip. Runway strip of I both sides is avail Apron is still with runway strip. Runway strip of I both sides is avail Apron is still with runway strip. Runway strip of I both sides is avail Apron is still with runway strip. Runway strip of I both sides is avail Apron is still with runway strip. | Om for ple 1 the ork is in ray rg, ompletion: by the Operator Om for ple of the ork is in ray rg, ompletion: |

| Identi | fication | | Deficie | ncies | Corrective Action | | | |
|--------------|-------------------|-------------|---------------------|--|-----------------------|------------------------------------|--|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | | | | Provision of RESA in accordance with section 3.5 of ICAO Annex 14, Volume I. | RESA will be provided | Maldives Airports Company Pvt. Ltd | RESA available for RWY36 end 240m RESA available for RWY18 end 55m These figures have been published in the AIP Exemption granted by the State to Aerodrome Operator till December 2018. RESA available for RWY36 end-240m RESA available for RWY18 end-90m Revision to declared distances have been published in the AIP Supplement 02/18 date of issue: 15 March 2018. Exemption granted by the State to Aerodrome Operator till December 2018. | Ĥ |

| Identi | fication | | Deficie | ncies | | Corre | ctive Action | |
|-----------------------|-------------------------------------|-------------|-----------------------------------|--|--|----------------|---|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| Annex 14 Volume I | India Chennai International Airport | Runway | AGA mission January 2009 | RESA not provided in accordance with Para 3.5 of Annex 14, Volume I requirements; | RESA will be provided | AAI | December 2012 RESA provided, however desired strength is yet to be provided. RESA provided. [CLOSED] | Ĥ |
| | | | | Runway strip is insufficient-300m strip width is not available for the full length of runway 07/25 in accordance with 3.4.3 of Annex 14, Volume I. | 300m strip width for full length of runway 07/25 will be made available. | AAI | December 2013 Action initiated Work in progress. October 2019. Presently distance between RWY 25 Centerline to TWY 'A' is 123m and to provide RWY Strip of 150m, TWY 'B' will be straightened from intersection TWY 'C'. | A |
| Annex 14, Volume I | Mumbai International Airport | Runway | AGA mission January 2009 | RESA not provided for R/W 09 and R/W 14 in accordance with Para 3.5 of ICAO Annex 14, Volume I; | RESA will be provided | MIAL | R/w 09 RESA provided R/w 14 June 2013 RESA provided. | U |

| Identi | fication | | Deficie | ncies | | Correc | ctive Action | |
|--------------|-------------------|-------------|---------------------|---|--|----------------|---|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | | | | Runway strip is insufficient-300m strip width is not available for the full length of runway 09/27 in accordance with 3.4.3 of Annex 14, Volume I | 300m strip width for full length of runway 09/27 will be made available | MIAL | R/w 09/27 August 2013 R/w 14/32 June 2013 31 Dec 2020. Due to presence of slum in beginning of RWY 09/27 south – RWY strip 300m not available. Due to presence of slum of either side at beginning of RWY 14/32 – RWY strip 300m not available. | A |

| Identi | fication | | Deficie | ncies | | Corre | ctive Action | |
|----------------------|--|-------------|------------------------------------|---|-----------------------|-----------|---|--------------|
| Requirements | States/facilities | Description | Date first | Remarks | Description | Executing | Target date of | Priority for |
| | | | reported | | | body | completion | action** |
| Annex 14 Volume I | Cambodia Siem Reap International Airport | Runway | AGA mission of March 2009 | RESA not provided as per Para 3.5 of Annex 14, Volume I.; | RESA will be provided | | RESA provided. RESA improvement plan under consideration to satisfy Para's 3.587 to 3.5.10 of Annex 14. | Ħ |
| | | | | | | | RESA provided at both ends of the Runway (runway 05/23) Dimension 90 m x 140 m [CLOSED] | |

| Identi | fication | | Deficie | ncies | | Corre | ctive Action | |
|----------------------|--|--------------------|----------------------------------|--|--|----------------|---|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | Bangladesh | | • | | | | | |
| Annex 14 Volume I | Hazrat Shahjalal International Airport, Dhaka | Runway/ Taxiway | ICAO mission April 2009 | Runway strip width insufficient(300m strip not available for the full length of runway); | runway strip in accordance with Annex 14, volume I will be provided | CAABD | Runway strip width 300m available for the full length of runway (mitigation measures for storm water drain on the western side strip under process. No obstructions on graded area) | A |

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| Identi | fication | | Deficie | ncies | | Corre | Corrective Action | | | |
|-----------------------|--|-------------|--------------------------------|--|---|----------------|--|-----------------------|--|--|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** | | |
| Annex 14, Volume I | Thailand Phuket International Airport | Runway | AGA mission of July 2009 | RESA to satisfy Section 3.5 of Annex 14, Volume I requirements; | RESA will be provided | Dody | Risk assessment study in process [DCA letter dated 9 April 2014) The Runway End Safety Area will be provided at Phuket International Airport to satisfy Section 3.5 of Annex 14, Volume I requirements. The contractor procurement is in progress. The construction is expected to be completed in 2020. | U | | |
| | | | | Runway strip width insufficient (300m runway strip for precision approach runways in accordance with Para 3.4.5 of Annex 14, Volume I; | 300m runway strip width for full length of runway will be made available | | Risk assessment study in process [DCA letter dated 9 April 2014) Phuket International Airport has corrected the Air Navigation Deficiencies in AOP field by completing the risk assessment study regarding the runway strips deficiency, and DCA has already approved the risk assessment study since December 2014. | A | | |

Appendix B Revision

[Updated on 30 August 2018] AIR NAVIGATION DEFICIENCIES IN AOP FIELD IN THE ASIA/PACIFIC REGION

| Identi | fication | | Deficie | ncies | | Corre | ctive Action | |
|----------------------|---|--------------------|-------------------------------|---|--|---------------------------------|--|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| Annex 14 Volume I | Myanmar Yangon International Airport | Runway/ Taxiway | ICAO mission April 2010 | Runway shoulder higher than adjacent strip | Flush strip with adjacent runway shoulder | Department of Civil Aviation | October 2011 30 Nov 2018 (Risk Assessment conducted by the operator on 21 May 2018) | A |
| | | | | Provision of enhanced taxiway centre line marking in accordance with standard in Para 5.2.8.11 of Annex 14, Volume I. | enhanced taxiway markings will be provided | | DCA SMGCS. The system will start in 2012has planned to implement 20 November 2018 | A |
| | | | | Provision of RESA in accordance with Section 3.5 of Annex 14, Volume I requirements; | RESA will be provided | | March 2011 30 Dec. 2018 Risk Assessment conducted by the operator on 10 Aug 2018.) | A |
| | | | | Provisions of shoulders for taxiways | taxiway shoulders will be provided | | Beginning of 2012 30 Nov. 2018 | В |
| | | | | Provision of road holding position signs at entrances to active runways | road holding position signs will be provided | | October 2011 30 Dec. 2018 | A |
| | | Bird Hazard | | Establishment of a national bird committee in accordance with APANPIRG Conclusion 18/1. | Establish National Bird Committee | | DCA will establish National Bird committee. 31 March 2019 (Guideline for Wildlife Control is being developed and will be | В |

Appendix B

Revision

[Updated on 30 August 2018]

| Identi | fication | | Deficie | ncies | Corrective Action | | | |
|---|---------------------|--------------------|------------------------|---|---|---------------------------------|--|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion published on 30 Sep 2018) | Priority for action** |
| Annex 14, Volume I | Mandalay Airport | Runway/ Taxiway | April 2010 | Provision of RESA in accordance with Section 3.5 of Annex 14, Volume I requirements; | RESA will be provided | Department of Civil Aviation | Oct 2011 31 Dec 2019 (Risk Assessment is being conducted by the operator) | A |
| | | | | Provision of enhanced taxiway centre line marking in accordance with standard in Para 5.2.8.11 of Annex 14, Volume I. | enhanced taxiway markings will be provided | | DCA is reviewing the requirement for taxiway enhanced centerline marking Completed on 13 April 2018 | A |
| | | | | Provision of road holding position signs at entrances to active runways. | road holding position signs will be provided. | | Oct 2011 Completed on 7 Aug 2018 | A |
| Annex 14 Vol. I Amendment 6 § 10.1 § 10.2 | | | | A maintenance programme should be established to maintain facilities in a condition which does not impair safety of air navigation. | DCA establishes and implements producers to aerodrome operators meet national requirements for maintenance programme. | | End of 2011 A maintenance programme for Electrical & Visual Aids completed on 01 Dec 2016 and for Pavement on 01-Jan2017. CLOSED | A |

Appendix B [Updated on 25 Aug. 2018] AIR NAVIGATION DEFICIENCIES IN AOP FIELD IN THE ASIA/PACIFIC REGION

| Identi | fication | | Deficie | ncies | Corrective Action | | | |
|----------------------|----------------------------------|--------------------|------------------------------|--|-----------------------|----------------|--|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | Fiji Islands | | | | | | | |
| Annex 14 Volume I | Nadi International Airport | Runway/ Taxiway | ICAO mission June 2010 | Provision of RESA in accordance with Section 3.5 of Annex 14, Volume I requirements; | RESA will be provided | | ACTION TAKEN (PARTIALLY COMPLETED):- RESA provided for the runway ends:- RWY 09 – 90mx90m (compliant) RWY 20 - 90mx90m (compliant) RWY 02 – 30m x 90m (limited due to the Localizer aerial) RWY 27 – nil (limited due to sea located at the end of the strip area) Information published in the State AIP For the non-compliant RWY 02 and RWY 27, a Safety Case is being developed by the Aerodrome Operator requesting issuance of an Exemption until RESA is able to be provided: Target date 4 th Quarter 2025 For the non-compliant RWY 02 and RWY 27, a safety case has been presented by the Aerodrome Operator for issue of an Exemption until RESA is able to be provided in 2020. | A |
| | | | | | | | Target date - 2020 | |

Appendix B

[Updated on 25 Aug. 2018] AIR NAVIGATION DEFICIENCIES IN AOP FIELD IN THE ASIA/PACIFIC REGION

| Identi | fication | | Deficie | ncies | | Corre | ective Action | |
|--------------|-------------------|-------------|---------------------|---|-------------------------------------|----------------|--|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | | | | Establishment of a national bird committee in accordance with APANPIRG Conclusion 18/1. | Established National Bird Committee | · · | ACTION TAKEN (PARTIALLY COMPLETED): Wildlife Committees (membership includes Aerodrome Operators, CAA, Airline representatives and other-industry stakeholders) have been established for each the two International Airports and meet on a monthly basis. A National Wildlife Committee which will bring together both committees will be established before the end of 2017. Target date 4 th Quarter 2017 Wildlife Committees established for both international airports. Membership includes aerodrome operators, CAA Fiji, airline representatives and other industry stakeholders [CLOSED] | ₽ |

Appendix B [Updated on 25 Aug. 2018] AIR NAVIGATION DEFICIENCIES IN AOP FIELD IN THE ASIA/PACIFIC REGION

| Identi | fication | | Deficie | ncies | Corrective Action | | | | |
|----------------------|-------------------------------------|--------------------|---------------------|--|-----------------------|----------------|--|-----------------------|--|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** | |
| Annex 14 Volume I | Nausori International Airport | Runway/ Taxiway | June 2010 | Provision of RESA in accordance with Section 3.5 of Annex 14, Volume I requirements. | RESA will be provided | | ACTION TAKEN (PARTIALLY COMPLETED): RESA provided for runway ends:- RWY 10 – 30mx30m (limited due to airport boundary) RWY 28 - nil (limited due to public road) Information published in the State AIP A Safety Case is being developed by the Aerodrome Operator requesting issuance of an Exemption until RESA is able to be provided. Land has been acquired and work is due to commence 4 th quarter 2017. Target date 4 th Quarter 2018 A safety case has been presented by the Aerodrome Operator for issue of an Exemption until RESA is able to be provided in 2020. | A | |
| | 1 | | | | | | Target date - 2020 | | |

| Identi | fication | | Deficie | ncies | | Corre | ctive Action | |
|----------------------|--|--------------------|-------------------------------|---|---|-------|---|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description Executing body | | Target date of completion | Priority for action** |
| | Sri Lanka | | | | | | - | |
| Annex 14 Volume I | Bandaranaike International Airport | Runway/ Taxiway | ICAO mission April 2010 | Provision of 300m strip width for the full length of precision approach CAT I runway in accordance with the standard 3.4.3, Annex 14, Volume I; remove obstacles from runway strip; flush the strip with the adjacent runway shoulder | runway strip in accordance with Annex 14, volume I will be provided, obstacles from strip will be removed and and flush strip with adjacent runway shoulder | CAASL | Safety study for the deficiency will be completed and submitted by August 2017. AASL has informed that the Runway Safety Team – BIA will carry out the safety study and submit the report by June 2018 Preliminary Report of the Safety Study of AASL was reviewed in April 2018 | A |
| | | | | Provision of runway hold position lights in accordance with Para 5.3.19 of ICAO Annex 14, Volume I | runway hold position lights will be provided | | The stop bars will be provided in association with SMGCS at all A,B,C,D & E TWYs. The location will be 120m from RWY centre line for TWY A & E whereas 90m for TWY B,C & D. The target date of operation is JULY 2017. Runway Holding Position Stop Bar Lights have been installed with effect from 31/07/2017 and after the provision of training to ATCOs the operations of these lights have been commissioned with the issuance of the applicable SOP dated 02nd April 2018. | A |

| Identi | fication | | Deficie | ncies | | Corre | ctive Action | |
|--------------|-------------------|-------------|---------------------|---|---|----------------|--|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | | | | Establishment of a national bird committee in accordance with APANPIRG Conclusion 18/1. | National Bird Committee will be established | | TOR for National Bird committee is being drafted. The committee will be convened by August 2017. 1st Draft of TOR of National Bird Control Committee of Sri Lanka has been compiled and ready for ratification. | A |

| Ident | ification | | Deficien | ncies | Corrective Action | | | |
|-----------------------|---|--------------------|-------------------------------|---|---|----------------|--|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | Viet Nam | | | | | | | |
| Annex 14 Volume I | Noi Bai International Airport, Hanoi | Bird Hazard | ICAO mission March 2010 | Wildlife strike report submission to ICAO for inclusion in IBIS. | Submission of wildlife strike reports to ICAO for inclusion in IBIS. | | Quarter I, 2018 Airport Corporation of Viet Nam (ACV) annually reports to CAAV about wildlife strike, bird information as well as measures to control incidents from birds according to Regulation 399/CHK issued by CAAV about safety report. | В |
| | | | | | | | CAAV is developing data base and is preparing report submission to ICAO for inclusion in IBIS. | |
| Annex 14, Volume I | Tan Son Nhat International Airport, Ho Chi Minh City | Runway/ Taxiway | March 2010 | Provision of RESA in accordance with Section 3.5 of Annex 14, Volume I requirements; | Provide RESA | | December 2018 At present, Tan Son Nhat Intl airport is re-designed for upgrading the runways and setting up the RESA. | A |

| Ident | ification | | Deficier | ncies | | Corr | ective Action | |
|--------------|-------------------|-------------|---------------------|--|--|----------------|---|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | | | | Wildlife strike report submission to ICAO for inclusion in IBIS. | Submission of wildlife strike reports to ICAO for inclusion in IBIS. | | Quarter I, 2018 Airport Corporation of Viet Nam (ACV) annually reports to CAAV about wildlife strike, bird information as well as measures to control incidents from birds according to Regulation 399/CHK issued by CAAV about safety report. CAAV is developing data base and is preparing report submission to ICAO for inclusion in IBIS. | В |

APANPIRG/29 – WP/15 Appendix B AIR NAVIGATION DEFICIENCIES IN AOP FIELD IN THE ASIA/PACIFIC REGION

| Identi | fication | | Deficiencies | | | Corrective . | Action | |
|----------------------|------------------------------------|---------------------------------|----------------------------------|---|-------------|----------------|---------------------------|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | Brunei Darussalam | | - Separate | | | | | |
| Annex 14 Volume I | Brunei International Airport | Runway | ICAO Mission of April 2011 | vegetation along pavement edges and strip higher than the adjacent runway pavement; uneven earth mounds on strip | | | | A |
| | | | | faded centre line and other markings; | | | | A |
| | | Taxiway | | non provision of enhanced taxiway centre line marking in accordance with Para 5.2.8 of Annex 14, Volume I | | | | A |
| | | | | Objects on taxiway strips; vegetation on pavement joints and maintenance of joints | | | | A |
| | | Apron | | non provision of ICAO compliant signage in accordance with section 5.4 Annex 14, Volume I | | | | A |
| | | Rescue and Fire Fighting (RFF): | | non provision of direct access for the rescue and fire fighting vehicles from the fire station into the runway; | | | | A |
| | | | | non provision of road holding position sign at all road entrances to a runway; and | | | | A |

| Identi | fication | | Corrective Action | | | | | |
|--------------|-------------------|-------------------|---------------------|---|-------------|----------------|---------------------------|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | | Wildlife Hazards: | | Establishing a national bird control committee in accordance with APANPIRG Conclusion 18/1; | | | , | В |

APANPIRG/29 – WP/15 Appendix B AIR NAVIGATION DEFICIENCIES IN AOP FIELD IN THE ASIA/PACIFIC REGION

| Identi | fication | | Deficiencies | | | Corrective | Action | |
|----------------------|------------------------------------|---------------------------------|----------------------------------|--|-------------|----------------|---------------------------|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | Lao PDR | | | | | | | |
| Annex 14 Volume I | Wattay International Airport | Runway | ICAO Mission of March 2011 | Non provision of RESA in accordance with section 3.5 of Annex 14, Volume I | | | | U |
| | | | | rubber deposits and faded centre line markings. | | | | A |
| | | Taxiway | | Provision of runway hold position lights in accordance with Para 5.3.19 of ICAO Annex 14, Volume I Provision of enhanced taxiway centre line marking in accordance with Para 5.2.8 of | | | | A |
| | | | | Annex 14, Volume I | | | | |
| | | Rescue and Fire Fighting (RFF): | | Provision of road holding position sign at all road entrances to a runway; | | | | A |
| | | Wildlife Hazards: | | Establishing a national bird control committee in accordance with APANPIRG conclusion 18/1. | | | | В |

| Identi | fication | | Deficiencies | | | Corrective A | Action | |
|--------------|---|-----------------------------------|---------------------|---|-------------|----------------|---------------------------|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | Luang Prabang International Airport | Runway | - | Provision of enhanced taxiway centre line marking in accordance with standard in Para 5.2.8.11 of Annex 14, Volume I | | | | A |
| | | Taxiway | | Provision of runway hold position lights in accordance with Para 5.3.19 of ICAO Annex 14, Volume I on new taxiways | • | | | A |
| | | Rescue and Fire Fighting (RFF) | | Provision of road holding position sign at all road entrances to a runway | | | | A |

Appendix B AIR NAVIGATION DEFICIENCIES IN AOP FIELD IN THE ASIA/PACIFIC REGION

| Iden | tification | | Deficiencies | | Corrective Action | | | | |
|----------------------|--|-------------|---------------------------------|---|-------------------|----------------|---------------------------|-----------------------|--|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** | |
| | Mongolia | | | | | | | | |
| Annex 14 Volume I | Ulaan Baatar International Airport | Runway | ICAO Mission of July 2011 | rubber deposits and faded centre line and other faded markings; | | | | A | |
| | | Taxiway | | Resealing cracks on pavement surface with sealants to prevent ingress of water and broken edges which could cause FOD issues. | | | | A | |
| | | | | Provision of enhanced taxiway centre line marking in accordance with Para 5.2.8 of Annex 14, Volume I. | | | | A | |
| | | | | faded taxiway markings | | | | A | |
| | | | | Maintenance of pavement cracks | | | | A | |
| | | | | provision of runway hold position lights in accordance with Para 5.3.19 of ICAO Annex 14, Volume I . | | | | A | |

Appendix B AIR NAVIGATION DEFICIENCIES IN AOP FIELD IN THE ASIA/PACIFIC REGION

| Ident | ification | | Deficiencies | | | Corrective A | body completion action A | | |
|--------------|-------------------|------------------|---------------------|--|-------------|--------------|--------------------------|-----------------------|--|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | | | Priority for action** | |
| | | | | provision of taxiway hold position signs on all hangar taxiways at entrances to the active taxiways/runway. | | | | A | |
| | | Apron | | sealing the cracks on the apron surface | | | | A | |
| | | Airfield signage | | Provision of ICAO compliant signage in accordance with section 5.4 Annex 14, Volume I and to cut the vegetation in front of the signs. | | | | A | |
| | | Wildlife Hazards | | establishing a national bird control committee in accordance with APANPIRG conclusion 18/1; | | | | В | |
| | | | | collect wildlife reports and forward to ICAO for inclusion in the ICAO IBIS; | | | | В | |

APANPIRG/29 – WP/15 Appendix B AIR NAVIGATION DEFICIENCIES IN AOP FIELD IN THE ASIA/PACIFIC REGION

| | Identification | D | eficiencies | | | | | |
|----------------------|---|---------------------|----------------------------------|--|-------------|--|--|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | | | Priority for action** |
| Annex 14 Volume I | Tonga Fua'amotu International Airport | Runway Strip | ICAO Mission of Sept. 2015 | Insufficient Runway Strip | | | | A |
| Annex 14 Volume I | Solomon Islands Honiara International Airport/Henders on Field | Runway Strip | ICAO Mission of Oct. 2015 | Insufficient Runway Strip | | | | A |
| | | RESA | | RESA at both ends of runway not provided | | | | U |
| | | Aerodrome Pavements | | Lack of maintenance of aerodrome pavements in accordance with Annex 14, 10.2 | | | | U |
| Annex 14 Volume I | Samoa Faleolo International Airport | Runway Strip | ICAO Mission of Oct. 2015 | Insufficient Runway Strip | | | | A |

Appendix B

AIR NAVIGATION DEFICIENCIES IN AOP FIELD IN THE ASIA/PACIFIC REGION

| | Identification | Deficiencies | | | | Corrective Ac | tion | |
|--------------|-------------------|---------------------|---------------------|--|-------------|----------------|---------------------------|-----------------------|
| Requirements | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date of completion | Priority for action** |
| | | Aerodrome Pavements | | Lack of maintenance of aerodrome pavements in accordance with Annex 14, 10.2 | | | | U |

^{*} Priority for action to remedy the shortcoming is based on the following safety assessments:

[&]quot;U" priority = Urgent requirements having a direct impact on safety and requiring immediate corrective actions. Urgent requirement consisting of any physical, configuration, material, performance, personnel or procedures specification, the application of which is urgently required for air navigation safety.

[&]quot;A" priority = Top priority requirements necessary for air navigation safety. Top priority requirement consisting of any physical, configuration, material, performance, personnel or procedures specification, the application of which is considered necessary for air navigation safety.

[&]quot;B" priority = Intermediate requirements necessary for air navigation regularity and efficiency. Intermediate priority requirement consisting of any physical, configuration, material, performance, personnel or procedures specification, the application of which is considered necessary for air navigation regularity and efficiency.

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE CNS FIELDS IN THE ASIA/PACIFIC REGION

| Identifi | cation | | Deficiencies | | Co | orrective Action | Executing body CA Target date for completion action CA December 2017 A | | |
|-------------------------------|--------------------|---|----------------------|--|--|------------------|---|---------------------|--|
| Requirement | States/facilities | Description | Date first reported | Remarks | Description | Executing body | _ | Priority for action | |
| Adequate and reliable VHF COM | Myanmar | Quality and reliability of RCAG VHF inadequate and unavailability of required coverage. | 1998 | Improvements in the quality of link to RCAG stations and power supply system at some | An action plan was developed to upgrade equipment at RCAG stations, replace VSAT stations at 5 VSAT location for the relay link to RCAG sites, to improve power supply system. | DCA Myanmar | Completed in | A | |
| | | Improvements had been observed with occasional communication problems reported. From 2 to 13 April 2012. | June 2011 | remote stations are required. | From 26 May 16, DCA Myanmar started using 4 VHF channel for 4 ACC sectors covering Yangon FIR. | | | | |
| | | a survey was conducted by IATA. 50 reported no communication had been established. | April 2012 | | Further improvements at Sittwe and Pathin will be made by the DCA in August 2017. | | | | |
| | | Survey on 8 July 2016 indicated that ooverall 94% (514 flights) of aircraft successfully established | July 2016 | | DCA was requested to keep ICAO APAC Office informed for coordination with IATA for the next survey. | | | | |
| | | communications of one form or another with Yangon ATC. Of the 548 responses, 6% (34 flights) could not establish communications with ATC at the FIR boundaries. | | | Further improvement made in 2017, letter for removal of this deficiency was received from DCA. Myanmar on 22 June 2018 | | | | |
| | | In Flight Broadcast Procedure (IFBP) currently still in place | | | | | | | |

| Identifi | cation | | Deficiencies | | Co | rrective Action | | |
|---|-----------------------------|--|---------------------|---|--|--|----------------------------|---------------------|
| Requirement | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date for completion | Priority for action |
| Reliable ground to ground communication as specified in the regional air navigation plan (Doc.9673) | Afghanistan and Pakistan | Unreliability of AFS communication between Afghanistan and Pakistan was brought to the notice of APANPIRG/21. Lack of reliability in the AFS including data communication between Kabul and Karachi and ATS voice communication between Lahore and Kabul was identified. | September 2010 | A COM coordination meeting — Afghanistan and Pakistan was held in June 2012 in Karachi, Pakistan. Further follow-up was made in end of 2014 and early 2015. A Remedial action plan was updated. New proposal for using landline has also proposed to be established between two States. | In March 2012, initial discussion on improvement of AFS communication was held at a special ATS coordination meeting. The COM coordination meeting in June 2012 developed a remedial action plan which was further updated in February 2015. 1. Near-term by end of September 2012, fully utilize the VPN circuit operational since January 2012 for exchange of AFTN traffic, organize users' training if required; (status quo) 2. Mid-term, harmonize VSAT terminal equipment and select common network service provider to recover the VSAT Links; Afghanistan has successfully changed the service provider in February 2015. Site visits in Pakistan by expert from the VSAT service provider were made in February and March 2016. Remedial recommendations were provided to CAA. Pakistan. 3. Long-term: establish a dedicated landline connection with multiplexers between Afghanistan and Pakistan to support both data and voice communication between COM centres and ACCs | Ministry of Transport and Civil Aviation Afghanistan and CAA. Pakistan | December 2018 | A |

| Identifi | cation | | Deficiencies | | Co | orrective Action | | |
|--|-------------------|---|-----------------------|--|---|------------------------------------|----------------------------|---------------------|
| Requirement | States/facilities | Description | Date first reported | Remarks | Description | Executing body | Target date for completion | Priority for action |
| Regional air navigation plan – FASID Table CNS 1D | Pakistan & China | Improvement of ATS Direct Speech circuit performance and A/G communication and surveillance coverage between China and Pakistan | May 2014 RASMAG/19 | The ATS direct speech circuit via IDD between Urumuqi and Lahore was observed not stable. Issues reported were in 2013. In early 2017, a hotline connection changing to a new service provider at Pakistan side has been established. Some improvement has been achieved. Further efforts are required based on RASMAG report. | Remedial action plan was developed in May 2015 by both States through a COM coordination meeting. A VSAT is planned to be installed at Lahore for connection with Urumqi ACC and additional VHF station is required to be installed to cover the VHF gap at PURPA crossing point. Technical survey for VSAT site in Lahore was done in January 2016. Agreement for installation and operation being discussed by two States. MoU for equipment transfer and installation was discussed. Both States were urged to expedite implementation through actions in follow up agreement at COM coordination meeting. | China ATMB and CAA. Pakistan | December 2018 | A |

| | REPORTIN | G FORM ON AIR | NAVIGAT | ION DEFICIEN | CIES IN THE MET FIELD IN THE ASIA/PA | C REGION | | |
|--|---|---|---------------------|--|---|---|----------------------------------|-----------------------------|
| Identificat | ion | D | eficiencies | | Corrective a | ection | | |
| Requirements | States/ Facilities (Index No.) | Description | Date first reported | Remarks | Description | Executing body | Target date for completion | Priority for action * |
| Meteorological information for operators and flight crew members, including forecasts provided by the WAFCs (Annex 3: Chapter 9) | , | Briefing and flight documentation not provided as required; WAFC forecasts not available | 1999 | Airlines do not receive the required flight documentation, including WAFC forecasts | Implement procedures and systems for the required meteorological information to be supplied to operators and flight-crew members, including forecasts generated from the digital forecasts provided by the WAFCs. APANPIRG should remove the deficiency from the open list – See notes below for more information. | SSCA, Cambodia | TBC | A |
| MWO and SIGMET service (Annex 3: Chapter 3, 3.4 and Chapter 7) | | Requirements for MWO and SIGMET service not established for Phnom Penh FIR | 1992 | MWO not established due to lack of trained personnel and technical facilities | Establish MWO to provide required service, including SIGMET information for Phnom Penh FIR. APANPIRG should remove the deficiency from the open list – See notes below for more information. | SSCA, Cambodia | ТВС | A |
| (Annex 3: Chapter 3, 3.4 and Chapter 7) | Peoples' Republic of Korea (DPRK) | Requirements for MWO and SIGMET service not established for Pyongyang FIR | 2008 | | Establish MWO to provide required service, including SIGMET information for Phnom Penh FIR. See notes below for more information. | GACA, Democratic Peoples' Republic of Korea | ТВС | A |
| Meteorological observations and reports. (Annex 3: Chapter 4) | | METAR from Kiribati not available on regular basis. | 1998 | Reported by airlines | Equipment to be installed and arrangements to be made for regular observations and reports, including: training of personnel; maintenance of equipment; calibration and verification of meteorological observations; and proper/secure transmission of data. See notes below for more information. | State designated MET authority | TBC | A |

| | REPORTIN | G FORM ON AIR | NAVIGAT | ION DEFICIENC | CIES IN THE MET FIELD IN THE ASIA/PA | C REGION | | |
|--|---|---|---------------------|--|---|--------------------------------------|----------------------------|-----------------------------|
| Identificat | ion | D | eficiencies | | Corrective a | ection | | |
| Requirements | States/ Facilities (Index No.) | Description | Date first reported | Remarks | Description | Executing body | Target date for completion | Priority for action * |
| Meteorological information for operators and flight crew members, including forecasts provided by the WAFCs (Annex 3: Chapter 9) | Kiribati (AP-MET-18) | WAFC forecasts not available for inclusion in flight briefings and documentation | 2008 | Reported by TCB CAEMSA- SP Technical Expert | Implement procedures and systems for the required meteorological information to be supplied to operators and flight crew members, including forecasts generated from the digital forecasts provided by the WAFCs. See notes below for more information. | State designated MET authority | ТВС | ט |
| Provision of SIGMET information (Annex 3: Chapter 7) | Lao People's Democratic Republic (AP-MET-12) | Requirements for issuance and dissemination of SIGMET information for Vientiane FIR have not been fully implemented | 2000 | SIGMET frequently not available; as reported by airlines | Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations. APANPIRG should remove the deficiency from the open list – See notes below for more information. | designated MET authority | TBC | A |
| Meteorological information for operators and flight crew members, including forecasts provided by the WAFCs (Annex 3: Chapter 9) | Nauru (AP-MET-19) | WAFC forecasts not available for inclusion in flight briefings and documentation | 2008 | Reported by TCB CAEMSA- SP Technical Expert | Implement procedures and systems for the required meteorological information to be supplied to operators and flight crew members, including forecasts generated from the digital forecasts provided by the WAFCs. See notes below for more information. | State designated MET authority | TBC | U |

| | REPORTIN | G FORM ON AIR | NAVIGAT | TON DEFICIENC | CIES IN THE MET FIELD IN THE ASIA/PA | C REGION | | |
|---|--------------------------------------|---|------------------------|---|--|--|----------------------------|-----------------------------|
| Identificat | ion | D | eficiencies | | Corrective a | ection | | |
| Requirements | States/ Facilities (Index No.) | Description | Date first reported | Remarks | Description | Executing body | Target date for completion | Priority for action * |
| Meteorological observations and reports. (Annex 3: Chapter 4) | ` / | METAR/SPECI service not provided | 2008 | Reported by TCB CAEMSA- SP Technical Expert | Equipment to be installed and arrangements to be made for regular observations and reports, including: training of personnel; maintenance of equipment; calibration and verification of meteorological observations; and proper/secure transmission of data. See notes below for more information. | State designated MET authority | TBC | U |
| Provision of SIGMET information (Annex 3, Chapter 7) | ` | Lack of SIGMET issued for the Nauru FIR. | Sep 2011 | IATA deemed this situation unsafe and unacceptable to airline operations. | Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations. See notes below for more information. | designated MET authority | ТВС | ט |
| Provision of SIGMET information (Annex 3: Chapter 7) | | Requirements for issuance and dissemination of SIGMET information for Kathmandu FIR have not been fully implemented | 2000 | | Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations. See notes below for more information. | designated MET authority | TBC | A |
| Reporting of information on volcanic eruptions to civil aviation units. (Annex 3, 3.6, 4.8) | , | Information on volcanic activity not provided regularly to ATS units, MWOs and VAACs. | 1995 | Observed by States concerned. Reported at the WMO/ICAO Workshop on Volcanic Ash Hazards (Darwin, 1995) | Establish arrangements for State volcano observatories to send the required volcano observation information as quickly as practicable to the associated ACC/FIC, MWO and VAAC. See notes below for more information. | Rabaul Volcano Observatory, NWS and ASL of Papua New Guinea | TBC | A |

| | REPORTIN | G FORM ON AIR | NAVIGAT | ION DEFICIEN | CIES IN THE MET FIELD IN THE ASIA/PA | C REGION | | |
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| Identifica | tion | D | eficiencies | | Corrective a | ection | | |
| Requirements | States/ Facilities (Index No.) | Description | Date first reported | Remarks | Description | Executing body | Target date for completion | Priority for action * |
| Provision of SIGMET for volcanic ash (Annex 3: Chapter 7) | Papua New Guinea (AP-MET-08) | Requirements for issuance and proper dissemination of SIGMET for volcanic ash have not been fully implemented | | Volcanic Ash Advisory Centres | Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of volcanic ash. See notes below for more information. | NWS of Papua New Guinea | ТВС | U |
| Provision of SIGMET information (Annex 3, Chapter 7) | Papua New Guinea (AP-MET-22) | Lack of SIGMET issued for the Port Moresby FIR. | Sep 2011 | IATA deemed this situation unsafe and unacceptable to airline operations. | Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations. See notes below for more information. | designated MET authority | TBC | U |
| Provision of SIGMET for volcanic ash (Annex 3: Chapter 7) | Philippines (AP-MET-07) | Requirements for issuance and proper dissemination of SIGMET for volcanic ash have not been fully implemented | | Volcanic Ash Advisory Centres | Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of volcanic ash. See notes below for more information. | PAGASA | TBC | U |
| Meteorological observations and reports. (Annex 3: Chapter 4) | Solomon Islands (AP-MET-01) | Weather information is inadequate and not provided on a regular basis | 1996 | Reported by airlines operating to Solomon Islands | Equipment to be upgraded and arrangements to be made for regular observations and reports, including: training of personnel; maintenance of equipment; calibration and verification of meteorological observations; and proper/secure transmission of data. See notes below for more information. | Solomon Is. MET Service | TBC | A |

| | REPORTIN | G FORM ON AIR | NAVIGAT | ION DEFICIENC | CIES IN THE MET FIELD IN THE ASIA/PA | C REGION | | |
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| Identificat | ion | Г | Deficiencies | | Corrective a | ection | | |
| Requirements | States/ Facilities (Index No.) | Description | Date first reported | Remarks | Description | Executing body | Target date for completion | Priority for action * |
| Meteorological information for operators and flight crew members, including forecasts provided by the WAFCs (Annex 3: Chapter 9) | Solomon Islands (AP-MET-20) | WAFC forecasts not available for inclusion in flight briefings and documentation | 2008 | Reported by TCB CAEMSA- SP Technical Expert | Implement procedures and systems for the required meteorological information to be supplied to operators and flight crew members, including forecasts generated from the digital forecasts provided by the WAFCs. See notes below for more information. | State designated MET authority | ТВС | U |
| Provision of SIGMET information (Annex 3, Chapter 7) | Solomon Islands (AP-MET-23) | Lack of SIGMET issued for the Honiara FIRs. | Sep 2011 | IATA deemed this situation unsafe and unacceptable to airline operations. | Implement procedures for SIGMET information to be issued by the designated meteorological watch office/s concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations. See notes below for more information. | designated MET authority | TBC | U |
| Reporting of information on volcanic eruptions to civil aviation units. (Annex 3: 3.6, 4.8) | Tonga (AP-MET-17) | Information on volcanic activity not provided regularly to ATS units, MWOs and VAACs | 2008 | Reported by TCB CAEMSA- SP technical expert | Establish arrangements for State volcano observatories to send the required volcano observation information as quickly as practicable to the associated ACC/FIC, MWO and VAAC. See notes below for more information. | MOI and MEIDECC | ТВС | U |

| Index No. | Date | NOTES |
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| AP-MET-01 | September 2017 | APANPIRG/28 noted that Solomon Islands should: Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| AP-MET-02 | September 2017 | APANPIRG/28 noted that Kiribati should: • Verify the status of implementation of CAP; and |

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| | | Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| AP-MET-03 | September 2017 | Removed from the open list, APANPIRG/28 Conclusion 28/29 refers. |
| AP-MET-04 | September 2017 | APANPIRG/28 noted that Papua New Guinea should: • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| AP-MET-05 | _ | This Index No. is not used. |
| AP-MET-06 | September 2017 | Removed from the open list, APANPIRG/28 Conclusion 28/29 refers. |
| AP-MET-07 | 6 June 2016 | PAGASA/CAAP advised that: Procedures implemented (Ref: PM-WD-AMSS-05-05) for the issuance of SIGMET information (for volcanic ash) for Manila FIR by the designated MWO in accordance with the ICAO SARPs; Conducted ICAO volcanic ash exercises and participated in the ICAO APAC Volcanic ash exercises steering group (VOLCEX/SG); Participated in the ICAO Regional SIGMET tests (without errors in SIGMET test messages sent by Philippines); Procedures implemented as set forth in the Philippine Regulation, CAR-ANS Part 3 – Aeronautical Meteorological Service, including other related national documents; and Tripartite agreement established between CAAP, PAGASA and PHIVOLCS stipulating the flow of volcanic ash information between the stakeholder agencies. |
| | 30 June 2016 | CAAP advised that: • In addition to the information provided above, and in view of the adherence to national procedures, regulations and other documents supporting the implementation of ICAO Annex 3 SARPs, CAAP requests ICAO to remove the deficiency from the open list. |
| | September 2017 | APANPIRG/28 noted that: • Removal of the deficiency from the open list is subject to the concurrence of the airlines and VAACs that the deficiency is resolved. |
| | June 2018 | MET SG/22 noted that: • VAAC Tokyo was coordinating with Philippines on the validation of corrective action taken to resolve the deficiency. |
| AP-MET-08 | September 2017 | APANPIRG/28 noted that Papua New Guinea should: • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| AP-MET-09 | 18 August 2016 | State Secretariat of Civil Aviation of Cambodia advised that: • Equipment installed at the following aerodromes: Phnom Penh (VDPP), Siem Reap (VDSR) and Sihanouk (VDSV), to obtain the digital |

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| | | forecasts provided by the WAFCs, via the Secure Aviation Data Information Service (SADIS), with full operational status at the end of 2013; and • Personnel trained to use the above systems to generate the required forecasts for operators and flight-crew members. |
| | September 2017 | APANPIRG/28 noted that Cambodia should: • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| | June 2018 | MET SG/22 considered that: The corrective actions implemented by Cambodia, including the implementation of SADIS reception facilities and associated training of relevant meteorological personnel validates rectification of the deficiency; and APANPIRG should remove the deficiency from the open list. |
| AP-MET-10 | _ | This Index No. is not used. |
| AP-MET-11 | 18 August 2016 | State Secretariat of Civil Aviation of Cambodia advised that: • Arrangements made for another Contracting State (China) to provide SIGMET service on behalf of Cambodia for the Phnom Penh FIR (as informed by State Secretariat of Civil Aviation of Cambodia, 18 August 2016). |
| | September 2017 | APANPIRG/28 noted that Cambodia should: • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| | June 2018 | MET SG/22 considered that: The corrective actions implemented by Cambodia, including the provision of SIGMET service by China on behalf of Cambodia, since 2010, validates rectification of the deficiency; and APANPIRG should remove the deficiency from the open list. |
| AP-MET-12 | September 2017 | APANPIRG/28 noted that Lao PDR should: • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| | June 2018 | MET SG/22 considered that: The corrective action implemented by Lao PDR, including the establishment of agreements by relevant authorities, implementation of procedures for SIGMET issuance, training of personnel for SIGMET preparation, participation in ICAO APAC SIGMET tests and exercises and the issuance of SIGMET information in accordance with Annex 3, validates rectification of the deficiency; and APANPIRG should remove the deficiency from the open list. |

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| AP-MET-13 | _ | This Index No. is not used. |
| AP-MET-14 | September 2017 | APANPIRG/28 noted that Nepal should: • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| AP-MET-15 | _ | This Index No. is not used. |
| AP-MET-16 | September 2017 | APANPIRG/28 noted that DPRK should: Verify the status of implementation of CAP; and Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| AP-MET-17 | 10 May 2013 | Ministry of Infrastructure (MOI), Civil Aviation Division, advised that: • MOU established between the national authority providing volcano monitoring (Ministry of Lands, Environment, Climate Change and Natural Resources – MLECCNR) and the national authority providing meteorological service for international air navigation (MOI) for the reporting of volcanic activity to the associated ACCs, MWOs and VAACs in accordance with the relevant ICAO SARPs. |
| | 29 May 2017 | MOI, Civil Aviation Division, advised that: • Relevant operating procedures implemented in the units concerned and case studies of real volcanic events presented as evidence of the State volcano observatory's issuance of the required volcano observation information. |
| | September 2017 | APANPIRG/28 noted that: • Removal of the deficiency from the open list is subject to the concurrence of the ATS units, MWOs and VAACs concerned that the deficiency is resolved. |
| | June 2018 | MET SG/22 noted that: • VAAC Wellington was coordinating with Tonga on the validation of corrective action taken to resolve the deficiency. |
| AP-MET-18 | September 2017 | APANPIRG/28 noted that Kiribati should: • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| AP-MET-19 | September 2017 | APANPIRG/28 noted that Nauru should: • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| AP-MET-20 | September 2017 | APANPIRG/28 noted that Solomon Islands should: • Verify the status of implementation of CAP; and |

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| | | Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| AP-MET-21 | September 2017 | APANPIRG/28 noted that Nauru should: • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| AP-MET-22 | September 2017 | APANPIRG/28 noted that Papua New Guinea should: • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| AP-MET-23 | September 2017 | APANPIRG/28 noted that Solomon Islands should: • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |
| AP-MET-24 | September 2017 | APANPIRG/28 noted that Nauru should: • Verify the status of implementation of CAP; and • Work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency. |

Acronyms/Abbreviations/Definitions

ACC — Area control centre

ASL — Air Services Ltd.

ATS — Air traffic services

CAEMSA-SP — Cooperative Agreement for the Enhancement of Meteorological Services to Aviation - South Pacific

CAAP — Civil Aviation Authority Philippines

CAP — Corrective action plan

FIC — Flight information centre

FIR — Flight information region

GACA — General Administration of Civil Aviation

IATA — International Air Transport Association

MEIDECC — Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communication

MET — Meteorological

Appendix D

Acronyms/Abbreviations/Definitions

METAR — Aerodrome routine meteorological report (in meteorological code)

MWO — Meteorological watch office

NWS — National Weather Service

PAGASA — Philippine Atmospheric, Geophysical and Astronomical Services Administration

PHIVOLCS — Philippine Institute of Volcanology and Seismology

SIGMET — Information issued by a meteorological watch office concerning the occurrence or expected occurrence of specified en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations

SPECI — Aerodrome special meteorological report (in meteorological code)

SSCA — State Secretariat of Civil Aviation

TBC — To be confirmed

TCB — Technical Cooperation Bureau (of ICAO)

VAAC — Volcanic ash advisory centre

WAFC — World area forecast centre

WMO — World Meteorological Organization