



ICAO

The Third Meeting of the Asia/Pacific Aerodrome Assistance Working Group (AP-AA/WG/3)

Video Teleconference, 23 to 26 March 2021

Agenda Item 3: Aerodrome Certification and Safety Management System

IMPLEMENTATION OF REQUIREMENTS FOR CERTIFICATION OF AERODROMES IN THE ASIA/PACIFIC REGION

(Presented by the Secretariat)

SUMMARY

This Working Paper presents the ICAO Annex 14, Volume I requirements on certification of aerodromes and progress made by Asia/Pacific States in this area.

1. INTRODUCTION

1.1 The 38th Session of the ICAO Assembly (September 2013) noted that Aerodrome Certification is an essential means to ensure aerodrome safety and enhance efficiency. The results of the ICAO Universal Safety Oversight Audit Programme (USOAP) audits suggest that the level of implementation of aerodrome certification, including Safety Management Systems (SMS), is not yet optimal.

1.2 The 39th Assembly (September/October 2016) in Resolution 39/22 resolved that States should take necessary measures, including the allocation of adequate resources, to improve the level of implementation of aerodrome certification, including SMS at aerodromes.

1.3 APANPIRG/27 (5 to 8 September 2016, Bangkok, Thailand) in Conclusion 27/5 urged States/Administrations to implement the certification of aerodromes in compliance with the ICAO Annex 14, Volume I requirements and Doc 9981 – PANS Aerodromes.

1.4 The APANPIRG/29 reviewed the *Beijing Declaration* and follow up action proposed by the Secretariat and adopted the Conclusion APANPIRG/29/1 that:

- a) States/Administrations be urged to allocate necessary resources to meet the *Beijing Declaration Targets and Commitments on Aviation Safety, Air Navigation Services, Accident Investigation and Human Resources Development*;
- b) APANPIRG Contributory Bodies to assist and monitor the implementation of related aspects of Beijing Declaration and report progress to the annual APAC DGCA Conference; and

- c) Secretariat to review the Beijing Declaration objectives in 2020 in order to reflect, as required, any resolutions agreed to by the ICAO Assembly in 2019, including those on the endorsement of the new versions of the Global Aviation Safety Plan (GASP) and Global Air Navigation Plan (GANP), and initiate the organization of the Second Asia/Pacific Ministerial Conference on Civil Aviation in 2020 or thereafter.

1.5 Recognizing the Ministers' commitment to certify all aerodromes used for international operations by 2020 through the Beijing Declaration, the 55th Conference of the Asia Pacific Director Generals of Civil Aviation in Action Item 55/42 urged:

- a) Aerodrome operators to prepare, apply for and maintain the certification for all aerodromes used for international operations;
- b) States to establish an Aerodrome Certification Plan, in accordance with their national regulations, incorporating the identification of gaps and implementation of solutions to overcome those gaps, including the safety risk assessment and development of mitigation measures in areas of non-compliance, and allocate the necessary resources to implement the plan to meet the 2020 target;
- c) States, if and when required, to request ICAO (Regional Office, COSCAPs, TCB and GAT) and PASO support for the implementation of the aerodrome certification plan of their respective States including training and technical assistance in aerodrome certification; and
- d) International Organizations, Champion/Volunteer States, Industry and other Aviation Agencies to support States and aerodrome operators in the implementation of the Aerodrome Certification Plans.

1.6 APANPIRG/30 (4 to 6 November 2019, Bangkok, Thailand) in its **Conclusion 30/4** urged States/Administrations to certify all aerodromes used for international operations, provide periodic updates to ICAO APAC Office, publish the status of certification of aerodromes in State's aeronautical information publication (AIP), and provided that States / aerodromes failing to complete the aforementioned actions be listed in the APANPIRG AOP Air Navigation Deficiency list.

2. DISCUSSION

ICAO Annex 14, Volume I Requirements on Certification of Aerodromes

1.4.1 of Annex 14, Volume I

2.1 States shall certify aerodromes used for international operations in accordance with the specifications contained in this Annex as well as other relevant ICAO specifications through an appropriate regulatory framework.

Note.— Specific procedures on the stages of certifying an aerodrome are given in the PANS-Aerodromes (Doc 9981). Further guidance on aerodrome certification can be found in the Manual on Certification of Aerodromes (Doc 9774).

1.4.2 of Annex 14, Volume I

2.2 States should certify aerodromes open to public use in accordance with these specifications as well as other relevant ICAO specifications through an appropriate regulatory framework.

1.4.3 of Annex 14 Volume I

2.3 The regulatory framework shall include the establishment of criteria and procedures for the certification of aerodromes.

Note.— Guidance on a regulatory framework is given in the Manual on Certification of Aerodromes (Doc 9774).

Relevant Conclusion of APANPIRG/30

2.4 Recognizing the Ministers' commitment to certify all aerodromes used for international operations by 2020 through the Beijing Declaration, APANPIRG AOP/SG to assist and monitor the implementation of related aspects of Beijing Declaration and report progress to the annual APAC DGCA Conference and States and Aerodrome Operators to take an effective action on Action Item 55/42 of the 55th Conference of the Asia Pacific Director Generals of Civil Aviation, the APANPIRG/30 (4 to 6 November 2019, Bangkok, Thailand) adopted the following Conclusion formulated by the AOP/SG/3:

Conclusion APANPIRG/30/4: Certification of aerodromes used for international operations in Asia Pacific States

That, the Ministers of Asia and Pacific States committed to certify all aerodromes used for international operations by 2020 through the Beijing Declaration. The AOP/SG monitors the aerodrome certification implementation commitment of the Beijing Declaration and reports progress to the annual APAC DGCA Conference through the APANPIRG. States and Aerodrome Operators should take effective actions on Action Item 55/42 agreed at the 55th Conference of the APAC DGCA.

In view of above, the Meeting:

- a) Urged States and their Aerodrome Operators that have yet to certify aerodromes used for international operations to take an effective action on the 55th DGCA Action Item 55/42;
- b) Urged States to provide periodic updates on the progress of the certification of aerodromes to the ICAO APAC Office;
- c) Urged States that have not published the status of certification of aerodromes in State's AIP to publish the status as soon as possible in accordance with Annex 14 Vol I (para. 2.13.1), PANS-Aerodromes (para. 2.3.7) and Appendix 2 to PANS-AIM (Doc 10066);
- d) Agreed that, if any aerodrome used for international operations fails to obtain an aerodrome certificate from the Regulatory Authority by fulfilling ICAO Annex 14 requirements under the aerodrome certification process by 2020, or fails to maintain the aerodrome certificate already obtained, will be subject to being included on the APANPIRG AOP Air Navigation Deficiency list against para. 1.4 (certification of aerodromes) of the Annex 14, Volume I;

- e) Agreed that, if any States fail to achieve the target of the Beijing Declaration on certification of aerodromes by 2020 will be subject to being included on the APANPIRG AOP Air Navigation Deficiency list against para. 1.4 of the Annex 14, Volume I;
- f) Agreed that, if any States fails to publish the status of certification of aerodromes in State’s AIP by December 2019 will be subject to being included on the APANPIRG AOP Air Navigation Deficiency list against ICAO Annex 14 para. 2.13.1 a), PANS-Aerodromes, para. 2.3.7 and Appendix 2 to PANS-AIM.

2.5 APANPIRG/30 noted that the Paragraphs d), e) and f) of **Conclusion 30/4** were in line with uniform methodology for the identification, assessment and reporting of air navigation deficiencies approved by the Council of ICAO on 30 November 2001. The methodology was provided in APANPIRG Procedural Handbook, which can be accessed at ICAO APAC Secure Portal <https://www.icao.int/APAC/Pages/APANPIRG-docs.aspx>

Status on Certification of Aerodromes in Asia Pacific States

2.6 There are 39 States, 2 Special Administration Regions and 8 overseas territories of 3 States in Asia and Pacific Regions.

2.7 There were **239** international aerodromes listed in Asia/Pacific Region ANP Volume I as of October 2020. However, the number of international aerodromes used for international operations in Asia/Pacific Region has increased and reached to approximately **342** based on information gathered from Doc 7910 (Location Indicator), States’ Aeronautical Information Publications (AIPs), CAA / Airport Websites, flight tracking data and ICAO Missions.

2.8 The **Attachment A** to this Working Paper provides the list of aerodromes used for international operations in Asia/Pacific Region that have yet to be certified, which was prepared based on information collected from APAC States through survey questionnaire, ICAO/COSCAPs missions including ICAO USOAP audit and ICVM, and video conferences and correspondences with States.

2.9 As per **Attachment A**, approximately 11% of aerodromes used for international operations (**38** out of 342 International Aerodromes) in Asia and Pacific Regions have yet to be certified.

2.10 The status of certified aerodromes used for international operations (“int’l aerodromes”) in different Sub Regions of Asia/Pacific Region is illustrated in the Table 1 below:

| Aerodromes | North Asia (5 States & 2 SARs) | South East Asia (11 States) | South Asia (8 States) | Pacific (15 States & 8 OTs) |
|--|--------------------------------------|-----------------------------------|--------------------------|-----------------------------------|
| Total Number of Int’l Aerodromes | 134 | 98 | 52 | 58 |
| Number of Certified Int’l Aerodromes | 127 | 84 | 43 | 50 |

| Aerodromes | North Asia (5 States & 2 SARs) | South East Asia (11 States) | South Asia (8 States) | Pacific (15 States & 8 OTs) |
|--|---------------------------------------|--|---|---|
| Number of Int'l Aerodromes <u>yet to be certified</u> | 7 | 14 | 9 | 8 |
| States with Int'l Aerodromes <u>yet to be certified</u> (number and percentage of aerodromes <u>yet to be certified</u>) | 1) China (3, 3%) 2) Japan (4, 12%) | 1) Brunei Darussalam (1, 100%), 2) Lao PDR (4, 100%) 3) Malaysia (2, 11%) 4) Thailand (5, 45%), 5) Timor-Leste (2, 100%) | 1) Afghanistan (4, 100%) 2) India (5, 19%) | 1) Kiribati (2, 100%) 2) Micronesia (Federal States of) (4, 100%), 3) Nauru (1, 100%), 4) Tuvalu (1, 100%) |

Table 1 – Status of certified aerodromes used for international operations in Sub Regions of Asia/Pacific Region

2.11 During ICAO missions and ICVM, ICAO has noted that some States have certified their aerodromes without full compliance with ICAO requirements on aerodrome certification process. Those States were recommended by ICVM and ICAO missions to recertify their aerodromes in compliance with ICAO requirements on certification processes.

Status of certification of aerodromes in AIP

2.12 Annex 14, Volume I – *Aerodrome Design and Operations* requires that aerodrome authorities responsible for aerodrome services shall report to the responsible aeronautical information services unit the information on the status of certification of aerodromes for promulgation in the Aeronautical Information Publication (AIP) (Para. 2.13.1 a) of Annex 14, Volume I refers).

2.13 PANS-AIM (Doc 10066) requires States to publish in *PART 3 - AERODROMES (AD)* of the AIP (Appendix 2 of PANS-AIM refers) a status of certification of aerodromes with details as shown in the box below:

| | |
|--------|---|
| AD 1.5 | Status of certification of aerodromes |
| | A list of aerodromes in the State, indicating the status of certification, including: |
| a) | aerodrome name and ICAO location indicator; |
| b) | date and, if applicable, validity of certification; and |
| c) | remarks, if any. |

2.14 From a recent exercise looking into AIPs, ICAO APAC Office identified a number of States / Administrations that have yet to publish the status of certification of aerodromes in AIP AD 1.5. The full list is available in **Attachment A**.

2.15 APANPIRG/31 (14 – 16 December 2020, video teleconference) noted that, subsequent to AOP/SG/4 (10 – 13 November 2020, video teleconference), Thailand had submitted evidence showing that its AIP AD 1.5 would contain all aerodromes used for international operations with effect from 31 December 2020. A summary is available in Table 2.

| States | North Asia (5 States & 2 SARs) | South East Asia (11 States) | South Asia (8 States) | Pacific (15 States & 8 OTs) |
|---|-----------------------------------|--|--------------------------|---|
| No aerodromes listed in AD 1.5/ AD 1.5 missing in AIP | -- | 1) Brunei Darussalam 2) Lao PDR 3) Philippines 4) Timor Leste | 1) Afghanistan | 1) American Samoa (US) 2) Cook Is. 3) Guam (US) 4) Kiribati 5) Nauru 6) Niue (NZ) 7) N. Mariana Is. (US) 8) Samoa 9) Tonga 10) Tuvalu 11) Vanuatu |
| Some but not all aerodromes listed in AD 1.5 | 1) China 2) Japan | 1) Malaysia 2) Viet Nam | 1) India 2) Pakistan | -- |
| Status listed but not under AD 1.5 | -- | -- | -- | 1) Fiji 2) New Zealand |
| AIP cannot be located | -- | -- | -- | 1) Marshall Is. 2) Micronesia (Federated States of) 3) Palau 4) Solomon Is. |
| Total | 2 States | 7 States | 3 States | 17 States / OTs |

Table 2 – Status of AIP AD 1.5 in Sub Regions of Asia/Pacific Region

APANPIRG AOP Deficiency List

2.16 In connection with **Conclusion APANPIRG/30/4** and subsequent to review by APANPIRG/31, the States / Administrations / aerodromes identified in **Attachment A** and summarized in Table 1 and Table 2 were included in the APANPIRG AOP Deficiency List, with effect from 1 January 2021.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) urge States and their Aerodrome Operators that have yet to certify aerodromes used for international operations to take an effective action on the 55th DGCA Action Item 55/42;
- b) urge States to provide periodic updates on the progress of the certification of aerodromes and AIP AD 1.5 to the ICAO APAC Office;
- c) urge States that have not published the status of certification of aerodromes in State's AIP to publish the status as soon as possible in accordance with Annex 14 Vol I (para. 2.13.1), PANS-Aerodromes (para. 2.3.7) and Appendix 2 to PANS-AIM (Doc 10066); and
- d) discuss any relevant matters as appropriate.

Attachment A to AP-AA/WG/3 WP/04

List of Aerodromes used for International Operations in APAC Regions that have yet to be Certified

Last updated: 1 Feb 2021

| Serial # | Sub-region | State / Admin | ICAO Code | Name of City | Name of Aerodrome | Type | Listed in... | | | Info Source |
|----------|------------|---------------|-----------|---------------------|---|------|--------------|----------|------------|--------------------------|
| | | | | | | | APAC ANP | Doc 7910 | AIP AD 1.5 | |
| 1 | SA | Afghanistan | OHR | Herat | Herat Intl | UNK | 0 | 1 | 0 | FR24 / FG website |
| 2 | SA | Afghanistan | OAKB | Kabul | Kabul Intl | RS | 1 | 1 | 0 | |
| 3 | SA | Afghanistan | OAKN | Kandahar | Kandahar Intl | AS | 1 | 1 | 0 | |
| 4 | SA | Afghanistan | OAMS | Mazar-e-Sharif | Mazar-e-Sharif | UNK | 0 | 1 | 0 | FR24 / TK website |
| 29 | SEA | Brunei | WBSB | Brunei | Brunei Intl | RS | 1 | 1 | 0 | |
| 59 | NA | China | RCYU | Hualien | Hualien | UNK | 0 | 1 | 0 | Airport website |
| 92 | NA | China | RCMQ | Taichung | Cingcyuangang | UNK | 0 | 1 | 0 | |
| 93 | NA | China | RCNN | Tainan | Tainan | UNK | 0 | 1 | 0 | Airport website |
| 134 | SA | India | VICG | Chandigarh | | UNK | 0 | 1 | 0 | FR24 |
| 139 | SA | India | VOGO | Goa | | UNK | 0 | 1 | 0 | |
| 150 | SA | India | VOPB | Port Blair | | UNK | 0 | 1 | 0 | Nil Intl Flight found |
| 151 | SA | India | VAPO | Pune | | UNK | 0 | 1 | 0 | FR24 |
| 152 | SA | India | VISR | Srinagar | | UNK | 0 | 1 | 0 | Nil Intl Flight found |
| 197 | NA | Japan | RJAH | Hyakuri | | UNK | 0 | 1 | 0 | FR24 |
| 202 | NA | Japan | RJNK | Komatsu | | UNK | 0 | 1 | 0 | FR24 |
| 218 | NA | Japan | RJOS | Tokushima | | UNK | 0 | 1 | 0 | Airport website |
| 222 | NA | Japan | RJOH | Yonago | Miho | UNK | 0 | 1 | 0 | FR24 |
| 223 | PAC | Kiribati | PLCH | Kiritimati | Christmas I. | RS | 1 | 1 | 0 | PSIDS 7 Jun 19 |
| 224 | PAC | Kiribati | NGTA | Tarawa | Bonriki Intl | RS | 1 | 1 | 0 | PSIDS 7 Jun 19 |
| 225 | SEA | Lao PDR | VLVT | Vientiane | Wattay Intl | RS | 1 | 1 | 0 | |
| 226 | SEA | Lao PDR | VLLB | Luangprabang | Luangprabang Intl | RS | 1 | 1 | 0 | COSCAP-SEA 21 Sep 18 |
| 227 | SEA | Lao PDR | VLSK | Kaisongphimvihan | Savannakhet Intl | RS | 1 | 1 | 0 | COSCAP-SEA 21 Sep 18 |
| 228 | SEA | Lao PDR | VLPS | Pakse | Pakse Intl | RS | 1 | 1 | 0 | COSCAP-SEA 21 Sep 18 |
| 237 | SEA | Malaysia | WMKD | Kuantan | Haji Ahmad Shah | RNS | 1 | 1 | 0 | FR24 |
| 239 | SEA | Malaysia | WBKL | Labuan | | RNS | 1 | 1 | 0 | FR24 |
| 253 | PAC | Micronesia | PTPN | Pohnpei I. | Pohnpei Intl | RS | 1 | 1 ? | | FR24 |
| 254 | PAC | Micronesia | PTKK | Weno I. | FM Chuuk Intl | RS | 1 | 1 ? | | FR24 |
| 255 | PAC | Micronesia | PTYA | Yap I. | Yap Intl | RS | 1 | 1 ? | | |
| 256 | PAC | Micronesia | PTSA | Kosrae I. | Kosrae | UNK | 0 | 1 ? | | FAA IP AOP/SG/2 27 Jun 1 |
| 263 | PAC | Nauru | ANYN | Nauru I. | Nauru intl | RS | 1 | 1 | 0 | |
| 322 | SEA | Thailand | VTSG | Krabi | | RS | 1 | 1 | 1 | |
| 324 | SEA | Thailand | VTPH | Prachuap Khiri Khan | Hua Hin | RS | 1 | 1 | 1 | COSCAP-SEA 21 Sep 18 |
| 325 | SEA | Thailand | VTBU | Rayong | U-Taphao Pattaya Intl | RS | 1 | 1 | 1 | |
| 327 | SEA | Thailand | VTSM | Surat Thani | Samui | RS | 1 | 1 | 1 | COSCAP-SEA 21 Sep 18 |
| 328 | SEA | Thailand | VTSB | Surat Thani | | RS | 1 | 1 | 1 | |
| 329 | SEA | Timor Leste | WPDL | Dili | Presidente Nicolau Lobato | RS | 1 | 1 | 0 | COSCAP-SEA 21 Sep 18 |
| | | | | | Commander-in-Chief of the FALINTIL – Kay Rala | | | | | |
| 330 | SEA | Timor Leste | WPDB | Suai | Xanana Gusmão Intl | RNS | 1 | 1 | 0 | COSCAP-SEA 21 Sep 18 |
| 333 | PAC | Tuvalu | NGFU | Funafuti | Funafuti Intl | RS | 1 | 1 | 0 | |