



ICAO

International Civil Aviation Organization
Asia and Pacific Office

Nineteenth Meeting of the Asia Pacific Regional Aviation Safety Team (APRAST/19)

(Bangkok, Thailand, 6-10 February 2023 – Hybrid)

Agenda Item 4: Presentations – State / Industry / ICAO

OUTCOMES OF APANPIRG AND AOP/SG MEETINGS

(Presented by the Secretariat)

SUMMARY

This paper presents outcomes of several APANPIRG’s and AOP/SG’s Meetings related to aerodrome certification and safety matters.

1. INTRODUCTION

1.1 The ICAO Council in 1991 [C-MIN.133/18, 26 June 1991] established the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) and the current Terms of Reference of APANPIRG was approved by the President of the ICAO Council on 20 April 2020.

1.2 APANPIRG is composed of all ICAO Contracting States, and Territories recognized by ICAO, within the area of accreditation of the ICAO Asia Pacific Regional Office and States of service providers in this air navigation region and part of this region’s Air Navigation Plan. International organizations recognized by the ICAO Council to participate in ICAO meetings also invited to participate in the PIRG meetings.

1.3 More detailed information on APANPIRG is available at <https://www.icao.int/APAC/Meetings/Pages/APANPIRG.aspx>.

1.4 The Structure of APANPIRG is shown in Figure 1 below and became effective from 2017:



Figure 1 – APANPIRG Structure

- AOP SG: Aerodrome Operations and Planning Sub Group
- ATM SG: Air Traffic Management Sub Group
- CNS SG: Communications, Navigation and Surveillance Sub Group

- MET SG: Meteorology Sub Group
- RASMAG: Regional Airspace Safety Monitoring Advisory Group

1.5 As per APANPIRG Decision/26/65 (7 to 10 September 2015, Bangkok, Thailand) APANPIRG's Aerodrome Operations and Planning Subgroup (AOP/SG) was established in 2016 and the First Meeting of the AOP/SG was held on 14 - 16 June 2017 in ICAO APAC Office, Bangkok, Thailand.

1.6 The Terms of Reference of APANPIRG's AOP/SG is provided in Attachment B to the APANPIRG Procedural Handbook which can be accessed at https://www.icao.int/APAC/Documents/edocs/apanpirg/APANPIRG%20HANDBOOK_6th%20Edition_Amended%20-%20July%202021.pdf.

1.7 AOP/SG is empowered by APANPIRG to adopt Decisions and Conclusions on technical matters, especially those concerning guidance to States in the implementation of ICAO SARPs, GANP, RANP, Seamless ANS Plan that do not have additional economic, environmental, inter-regional or political effects, which should be considered at a higher level at APANPIRG.

1.8 Meetings of APANPIRG and AOP/SG are conducted annually as per their TOR.

1.9 To assist and systematically conduct the work of AOP/SG, the following Task Force and Working Groups have been established by AOP/SG:

- a) Asia Pacific Aerodrome Design and Operations Task Force (AP-ADO/TF);
- b) Asia Pacific Aerodrome Assistance Working Group (AP-AA/WG); and
- c) Asia Pacific Wildlife Hazard Management Working Group (AP-WHM/WG).

2. DISCUSSION

Certification of Aerodromes in Asia Pacific States

2.1 *Annex 14 Volume I – Aerodrome Design and Operations* require States to certify aerodromes used for international operations in accordance with national regulations and procedures established in compliance with ICAO requirements.

2.2 The Ministers of Asia and Pacific States responsible for Civil Aviation met in January 2018 and made several commitments in Aviation Safety and Air Navigation (Beijing Declaration). Among others, one of the commitments was to certify all aerodromes used for international operations by 2020.

2.3 AOP/SG monitors the aerodrome certification implementation commitment of the Beijing Declaration and ICAO APAC reports the progress made by States to the annual RASG-APAC Meeting and APAC DGCA Conference.

2.4 As of 24 November 2022, **321** out of **354** international aerodromes used for international operations (**90.68%**) in Asia and Pacific Regions have been certified.

2.5 In accordance with “*Conclusion APANPIRG/30/4: Certification of aerodromes used for international operations in Asia Pacific States*”, **33** uncertified international aerodromes and **17** States that have not published partially or fully the status of certification of aerodromes in their national AIP in AD1.5 are in the APANPIRG Air Navigation List which is posted on ICAO Secure Portal at <https://portal.icao.int/DEF/Pages/default.aspx>.

2.6 APANPIRG/33 urged States to provide periodic updates on the progress of the certification of aerodromes and publication of the list of the certified aerodromes in AIP AD 1.5 to the ICAO APAC Office.

2.7 Recognizing the availability of limited qualified technical personnel in CAA and assistance required for the certification and continuous surveillance of aerodromes used for international operations, resolution of APANPIRG Air Navigation Deficiencies and improving USOAP EI in AGA area in Asia Pacific Region, APANPIRG/33 adopted the Conclusion APANPIRG/33/3 formulated by AP-AA/WG/4 and endorsed by AOP/SG/6:

Conclusion APANPIRG/33/3: Assistance to APAC States that require assistance in AGA area including certification and surveillance of aerodromes

That,

- 1) *States requiring assistance in developing regulations and Guidance Material are encouraged to utilize the generic guidance materials made available on ICAO APAC website at eDocuments under AGA heading (<https://www.icao.int/APAC/Pages/eDocs.aspx>);*
- 2) *States requiring assistance in AGA area including certification and surveillance of aerodromes and USOAP CMA are encouraged to approach to COSCAPs and PASO or ICAO APAC Office with specific request for assistance; and*
- 3) *Champion States* and Industries** wishing to volunteer in assisting States and aerodromes that require assistance in AGA area including certification and surveillance of aerodromes are requested to inform to ICAO APAC Office and provide contact details of their subject matter experts (SME).*

Notes:-

**Champion States - States with 100% aerodrome certification, without APANPIRG Air Navigation Deficiencies and having achieved USOAP EI score more than 75%*

***Champion Industries – Certified aerodromes with good safety records and positive safety culture, and Industry Partners, Associations of Aerodrome Operators*

2.8 The State Letter Ref.: AN 3/3 – AP013/23 (AGA) requesting States to take necessary action regarding Conclusion APANPIRG/33/3 was circulated to States on 24 January 2023.

Runway Safety Team (RST)

2.9 An aerodrome operator shall establish a Runway Safety Team (RST) comprised of relevant organizations operating or providing services on the aerodrome in accordance with 8.2.1 of Part II of PANS-Aerodromes (Doc 9981).

2.10 The terms of reference and composition of the RST should be established and included in the aerodrome manual. Activities to be included in the terms of reference as well as the proposed composition of an RST are included in the Appendix to the Chapter 8 of Part II of PANS-Aerodromes (Doc 9981).

2.11 The primary role of the RST should be to develop a runway safety action plan. This action plan should, as a minimum, facilitate the identification of runway safety hazards and the conduct of runway safety risk assessments and recommend measures for hazard removal and mitigation of the residual risk. (8.3.1.3 of PANS-Aerodromes refer).

2.12 Detailed information on the establishment of a RST is available in the ICAO RST Handbook which can be downloaded from:
<https://www.icao.int/safety/RunwaySafety/Pages/Documents%20and%20Toolkits.aspx>.

2.13 ICAO has been maintaining a RST Survey to keep track of the establishment of RSTs at aerodromes. The survey results and questionnaire were available at the following URL:
<https://www.icao.int/safety/RunwaySafety/Pages/Runway%20Safety%20Team%20Register.aspx>

Note: - Currently the above webpage is under development.

2.14 As of 24 November 2022, out of **354** aerodromes used for international operations in Asia Pacific Regions, only **93 aerodromes** have participated in ICAO RST Survey. The list of aerodromes participated in ICAO RST Survey is provided in **Attachment A**.

2.15 Considering the importance of RST, APANPIRG/31 adopted the *Conclusion APANPIRG/31/6* endorsed by AOP/SG/4:

Conclusion APANPIRG/31/6 (AOP/SG/4–11): Runway Safety Team

That,

States/Administrations to urge operators of aerodromes used for international operations to:

- a) establish runway safety teams (RSTs) in accordance with PANS-Aerodromes (Doc 9981) and ICAO RST Handbook; and
- b) participate in the ICAO RST Survey to register their RSTs.

2.16 The State Letter Ref: AN 3/3- AP017/21 (AGA) requesting States to take necessary action regarding Conclusion APANPIRG/31/6 was circulated to States on 25 January 2021.

2.17 It is worthwhile to note that the RST plays a vital role in the implementation of *Enhanced Global Reporting Format for Assessing and Reporting Runway Surface Conditions (GRF)*.

RS Go-Team

2.18 The RS Go-Team is a voluntary, multi-disciplinary form of assistance provided by an ad-hoc group of experts from ICAO and Runway Safety Partner (RSP) Organizations and other safety related organizations (including existing RST's, RSOO's, etc.). It is not an ICAO audit, validation, inspection or certification action; however, it could help to prepare for such in the future.

2.19 The detailed information on RS Go-Team is available in *ICAO RS Go-Team Methodology* posted on ICAO Website at the following URL:

<https://www.icao.int/safety/RunwaySafety/Pages/Documents%20and%20Toolkits.aspx>

2.20 Recognising the benefits the RS Go-Team brought to States and runway safety stakeholders, the RASG-APAC at its 5th Meeting had taken a Decision, which is reproduced below:

Decision RASG-APAC 5/6 (2015)

That, ICAO APAC RO, with assistance from the COSCAP Chief Technical Advisors, coordinate the implementation of ICAO Runway Safety Go-Teams in the APAC region, and share relevant information on implementation with States/ Administrations and industry.

2.21 Two RS Go-Team missions in the APAC Region were conducted in March 2020 – Manila, Philippines and Makassar, Indonesia. Recommendations were provided to the States and airports for enhancing runway safety. The two missions utilized the funding available under COSCAP-SEA and was therefore available free-of-charge to the two States.

2.22 In association with Chapter 8 of Part II of PANS-Aerodromes and relevant guidance materials, there is a new PQ in AGA area (2020 Edition) on whether a State ensures “that aerodrome operators comply with requirements related to runway safety, including the establishment of a runway safety team”. The new PQ is extracted as follows.

8.204	Does the State ensure that aerodrome operators comply with requirements related to runway safety, including the establishment of a runway safety team?	1) Evaluate mechanism to ensure effective implementation. 2) Review evidence of a systematic approach to runway safety and collision avoidance strategy, e.g. establishment of runway safety teams.	PANS Doc 9981 (AGA) Part II, C8 GM A14 Vol. I, Att. A, Section 21.3 Doc 9870 C3	Yes	CE-6
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USOAP CMA PQ – AGA 8.204

Enhanced Global Reporting Format for Assessing and Reporting Runway Surface Conditions (GRF)

2.23 The ICAO SARPs and Procedures for Air Navigation Services (PANS) related to the enhanced Global Reporting Format for assessing and reporting runway surface conditions (GRF) became applicable on 4 November 2021.

2.24 The concerned Annexes and PANSs are:

- a) *Annex 3 – Meteorological Service for International Air Navigation;*
- b) *Annex 6 – Operation of Aircraft, Part I – International Commercial Air Transport – Aeroplanes and Part II – International General Aviation – Aeroplanes;*
- c) *Annex 8 – Airworthiness of Aircraft;*
- d) *Annex 14 – Aerodromes, Volume I – Aerodrome Design and Operations;*
- e) *Annex 15 – Aeronautical Information Services;*
- f) *Procedures for Air Navigation Services – Air Traffic Management (PANS-ATM, Doc 4444);*
- g) *Procedures for Air Navigation Services – Aerodromes (PANS-Aerodromes, Doc 9881); and*
- h) *Procedures for Air Navigation Services – Aeronautical Information Management (PANS-AIM, Doc 10066).*

GRF Implementation Action Plan Template

2.25 In order to assist States in tracking the implementation progress of GRF-related provisions, ICAO APAC Office had prepared a GRF Implementation Action Plan Template. The template identified 15 action items (milestones) and a number of action parties to facilitate States in their preparation for GRF implementation.

2.26 To maximize the benefits brought by the template, APANPIRG/31 adopted the following Conclusion formulated by AOP/SG/4:

Conclusion APANPIRG/31/5: GRF Implementation Action Plan Template

That,

- a) *The GRF Implementation Action Plan Template contained in Appendix B to Report on Agenda Item 3.1 be uploaded to ICAO APAC Website for reference by States/ Administrations; and*
- b) *States/Administrations are requested to make reference to the GRF Implementation Action Plan Template and submit their own action plans to ICAO APAC Office by 28 February 2021.*

2.27 The *Generic Template - GRF Implementation Action Plan* was posted on ICAO APAC Website at eDocuments under AGA heading (<https://www.icao.int/APAC/Pages/eDocs.aspx>) in January 2021.

2.28 The State Letter Ref: AN 3/3 - AP016/21 (AGA) requesting States to submit GRF Implementation Action Plan by 28 February 2021 was circulated to States on 25 January 2021.

GRF Implementation Monitoring and Status

2.29 ICAO developed the GRF implementation monitoring tool based on GRF Implementation Action Plan template using essential action items (Milestones) which can be accessed at <https://www.icao.int/safety/Pages/GRF.aspx>.

2.30 The GRF implementation dashboard for Asia and Pacific States is shown on the **Figure 2** below.

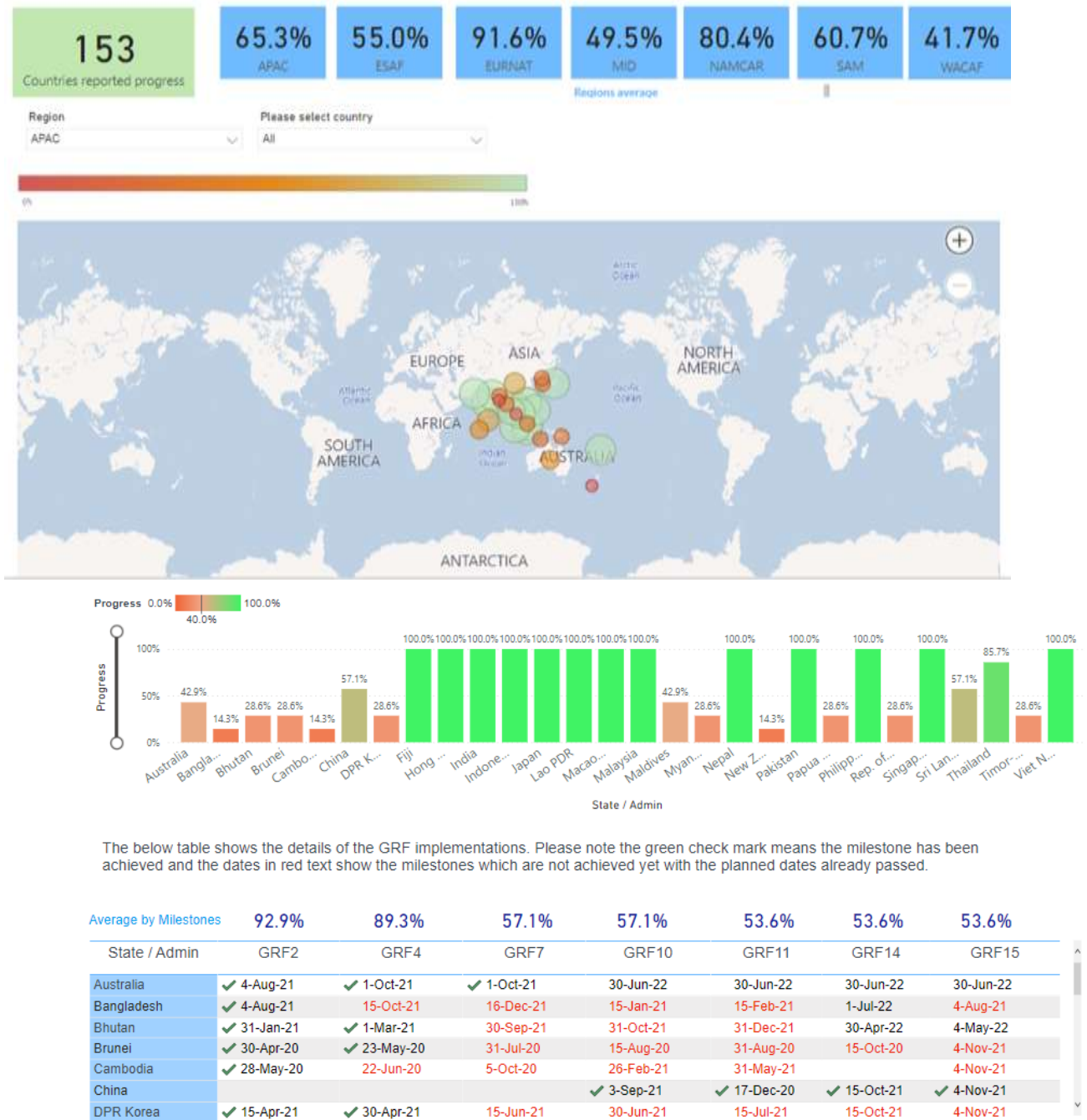


Figure 2: GRF Implementation Dashboard

2.31 APANPIRG/32 noted that ICAO APAC Office had received GRF Implementation Action Plans from 29 States/Administrations in 2021. So far, 15 States had implemented GRF (14 States on 4 November 2021). Remaining 14 States were in the process of implementation of GRF. 13 States had yet to submit their GRF Implementation Action Plan to ICAO APAC Office.

2.32 APANPIRG/32 adopted the Conclusion APANPIRG/32/2 formulated by AOP/SG/5 which is appended below:

Conclusion APANPIRG/32/2 (AOP/SG/5-11): GRF Implementation Monitoring and Status

That, Asia Pacific States/Administrations are urged to:

- 1) *submit GRF Implementation Action Plan to ICAO APAC Office, if they have yet to do so (Conclusion APANPIRG/31/5 refers);*
- 2) *provide to ICAO APAC Office a periodic status update (at least monthly basis, at the end of each month) on actual implementation of GRF Action Items (Milestones) in accordance with GRF Implementation Action Plan developed by States until its full implementation; and*
- 3) *support ICAO portal on GRF implementation monitoring and status, including maps and charts, to be made available in ICAO Public Website.*

2.33 The State Letter Ref: AN 3/3 – AP014/22 (AGA) requesting States to take necessary action regarding Conclusion APANPIRG/32/2 was circulated to States on 19 January 2022.

Publication of procedures for assessment and reporting of runway condition report and issuance of SNOWTAM in AIP

2.34 Annex 15 Aeronautical Information Services (AIS) requires that any permanent changes in the AIP shall be published as AIP Amendments (6.3.1.2 of Annex 15 refers). Therefore, the procedures for reporting of runway condition report and issuance of the new SNOWTAM format should also be published in national AIP.

2.35 Guidance on the issuance of the SNOWTAM is available on ICAO APAC Website <https://www.icao.int/APAC/Pages/eDocs.aspx> under ATM heading.

2.36 It was noted that as of 24 November 2022 only 5 APAC States had published procedures for assessment and reporting of runway condition report and issuance of SNOWTAM in AIP.

2.37 Recognizing the need for the promulgation of the procedures for the reporting of runway condition report and issuance of the new SNOWTAM format by States in their AIP in accordance with 6.3.1.2 of Annex 15 Aeronautical Information Services (AIS), APANPIRG/33 adopted the following Conclusion formulated by AP-AA/WG/4 and endorsed by AOP/SG/6 which was also supported by ATM/SG/10 (17 – 21 Oct. 2022):

Conclusion APANPIRG/33/2: Publication of procedures for reporting of runway condition report and issuance of the SNOWTAM in AIP

That, Asia Pacific States/Administrations:

- 1) *are urged to publish the procedures for reporting of runway condition report and issuance of SNOWTAM in their AIP in accordance with 6.3.1.2 of Annex 15 Aeronautical Information Services; and*
- 2) *may consider to publish above information in “AD 1.2.2 Snow plan” (refer to Appendix 2 of PANS-AIM (Doc 10066))*

2.38 The State Letter Ref: AN 3/3 – AP012/23 (AGA) requesting States to take necessary action regarding Conclusion APANPIRG/33/2 was circulated to States on 24 January 2023.

Wildlife Hazard Management (WHM)

2.39 Requirements and procedures for the management of wildlife (birds and other animals) hazards on, or in the vicinity of an aerodrome are stipulated in *Annex 14 Volume I – Aerodrome Design and Operations and PANS-Aerodromes (Doc 9981)*, respectively. Further guidance on WHM is given in the *Airport Services Manual (Doc 9137), Part 3 – Wildlife Hazard Management*.

Wildlife Strike Reports

2.40 States are required to collect and submit the wildlife strike reports to ICAO either through ECCAIRS.e5f files, or through an ECCAIRS Excel-based form that could be downloaded at <http://www.icao.int/ibis>. The files should be sent to the following email addresses:

wildlife@icao.int, icaohq@icao.int, aoi@icao.int, and iaa@icao.int

2.41 To further enhance wildlife strike reporting by States, APANPIRG/31 adopted the following Conclusion formulated by AP-WHM/WG/2 and endorsed by AOP/SG/4:

Conclusion APANPIRG/31/2 (AOP/SG/4-4 & AP-WHM WG/2-1): Submission of Wildlife Strike Reports

That, States are requested to submit wildlife strike reports to ICAO in the format of either ECCAIRS.e5f files or the standard ICAO ECCAIRS Excel-based form available at <http://www.icao.int/ibis>.

2.42 The APANPIRG/31 Meeting noted that there were a number of wildlife hazard management courses available but some aerodromes still faced the problem of staff competency in their wildlife hazard management unit. It was agreed that the issue could be caused by insufficient awareness among aerodrome senior management, thus resulting in the lack of resources in the area.

2.43 APANPIRG/31 adopted the following Conclusions formulated by AP-WHM/WG/2 and endorsed by AOP/SG/4:

Conclusion APANPIRG/31/3 (AOP/SG/4-5 & AP-WHM WG/2-2): Wildlife Hazard Management Training

That, States recognise the prioritised need for competent and trained personnel in aerodrome wildlife hazard management at regulatory and aerodrome operation levels.

Conclusion APANPIRG/31/4 (AOP/SG/4-6 & AP-WHM WG/2-3): Promotion of a Positive Safety Culture

That,

- 1) *States are encouraged to promote a positive safety culture in wildlife hazard management at regulatory and aerodrome operation levels; and*
- 2) *Reporting culture be considered in implementing aerodrome wildlife hazard management programmes.*

State Action Plan for Establishment and Implementation of Wildlife Hazard Management Programme – Generic Template

2.44 APANPIRG/33 noted that AP-WHM/WG had developed a generic template with 16 action items, responsible entities, target, and actual implementation dates to assist Asia-Pacific States in establishing and implementing national Wildlife Hazard Management Programme (WHMP).

2.45 APANPIRG/33 adopted the following Conclusion formulated by AP-WHM/WG/4 and endorsed by AOP/SG/6:

Conclusion APANPIRG/33/4: State Action Plan for Establishment and Implementation of WHMP - Generic Template

That, Asia/Pacific States are urged to:

- *Develop “State Action Plan for Establishment and Implementation of WHMP” in accordance with the generic template in **Appendix C to the Report on Agenda Item 3.1** assigning State responsible entities and targeted implementation dates (milestones); and*
- *Commence to execute the State Action Plan the latest from first quarter of 2023, and in accordance with the proposed targeted implementation date (milestone) and complete all actions by 2026.*

2.46 The State Letter Ref.: AN 3/3 – AP014/23 (AGA) requesting States to take necessary action regarding the Conclusion APANPIRG/33/4 was circulated to States on 24 January 2023.

2.47 The *Generic Template (State Action Plan for Establishment and Implementation of WHMP)* is available on ICAO APAC Website at *eDocuments* under AGA heading (<https://www.icao.int/APAC/Pages/eDocs.aspx>).

Asia Pacific Regional Guidance on AGA Area

2.48 In accordance with the TORs and task lists of the various Working Groups and Task Forces of AOP/SG, a number of Generic Guidance Materials (GGMs) were developed by these Working Groups/Task Forces and approved by AOP/SG.

2.49 All Generic Guidance Materials are published on ICAO APAC Website eDocuments under AGA heading for use/reference by States/Administrations and can be accessed using URL: <https://www.icao.int/APAC/Pages/eDocs.aspx>.

2.50 Runway Safety

Runway Safety	
GRF Implementation Action Plan Template	January 2021

2.51 Water Aerodromes

Water Aerodromes	
Sample APAC Regulations for Water Aerodromes	April 2019
Water Aerodromes requirements	January 2019

2.52 Aerodrome Certification.

Title	Version	Date
Aerodrome Certification		
APAC Regional Guidance on AIP – AD 1.5	Version 1.0	December 2020
APAC Regional Guidance on AOPC Requirement Framework - Word Version	Version 1.0	December 2020
APAC Regional Guidance on AOPC Requirement Framework - PDF Version	Version 1.0	December 2020
Survey Questionnaire for Aerodrome Assistance in APAC States		December 2020
Generic Aerodrome Certification Procedure	Version 1.0	December 2020
Generic Procedures for Accepting Non-compliance in Aerodromes	Version 1.0	December 2020
Generic Training Programme and Training Plan for Aerodrome Inspectors	Version 1.0	August 2021
Generic Aerodrome Inspector Handbook	Version 1.0	August 2021
Generic Aerodrome Manual	Version 1.0	August 2021
Generic Aerodrome Certification Specific Operating Regulations	Version 1.0	August 2021
Generic Organization Structure of the Aerodrome Regulatory Unit	Version 1.0	August 2021
Generic Surveillance Programme by Aerodrome Operators	Version 1.0	August 2021
Generic Surveillance Programme for Certified Aerodromes	Version 1.0	August 2022

2.53 Wildlife Hazard Management

Wildlife Hazard Management		
Asia/Pacific Guidance on Development and Implementation of Aerodrome Wildlife Hazard Management Programme	First edition	August 2022
State Action Plan for Development and Implementation of WHMP - Generic Template		January 2023
Survey Questionnaire		September 2019
Composition of National Wildlife Hazard Management Committee		September 2019
Terms of References of National Wildlife Hazard Management Committee		September 2019
Asia Pacific Guidance for Evaluation of Aerodrome Wildlife Hazard Management Programm	First Edition, July 2021	August 2021
Asia Pacific Guidance for Establishment of National Procedure for Recording and Reporting Wildlife Strikes to Aircraft	First Edition, July 2021	August 2021
IBIS Reporting Form		February 2022

Working Groups and AOP/SG Meetings

2.54 Meetings of the Working Groups and AOP/SG for 2023 are scheduled as below:

Meetings/Seminars	Date and Venue
Fifth Meeting of the Asia Pacific Aerodrome Assistance Working Group (AP-AA/WG/5)	13 – 16 March 2023, Maldives
Workshop on National Wildlife Hazard Management Programme and Fifth Meeting of the Asia Pacific Wildlife Hazard Management Working Group (AP-WHM/WG/5)	2 – 5 May 2023, ICAO APAC Office, Bangkok
Aerodrome Seminar – Airport Master Planning	29 – 30 June 2023, ICAO APAC Office, Bangkok
Seventh Meeting of the Aerodrome Operations and Planning Subgroup (AOP/SG/7)	3 – 6 July 2023

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

- a) Note the information contained in this paper;
 - b) Note and take appropriate actions on all APANPIRGs' Conclusions, if not yet done so; and
 - c) Discuss on any other relevant matters as appropriate.
-

Status of Participation by States/Aerodromes in ICAO RST Survey

Status of Participation by States/Aerodromes in ICAO RST Survey By Sub-regions				
	<u>Established</u>	<u>% Established</u>	No info or <u>Not Established</u>	<u>Total</u>
NA	4	2.94%	132	136
SEA	59	60.82%	38	97
SA	25	47.17%	28	53
PAC	5	7.35%	63	68
APAC Total	93	26.27%	261	354

Status of Participation by States/Aerodromes in ICAO RST Survey				
	<u>Established</u>	<u>% Established</u>	No info or <u>Not Established</u>	<u>Total</u>
Afghanistan	0	0%	4	4
American Samoa	0	0%	1	1
Australia	4	14%	24	28
Bangladesh	0	0%	3	3
Bhutan	1	100%	0	1
Brunei	0	0%	1	1
Cambodia	0	0%	3	3
China	1	1%	86	87
Cook Islands	0	0%	2	2
DPR Korea	0	0%	2	2
Fiji	1	50%	1	2
French Polynesia	0	0%	1	1
Guam	0	0%	1	1
Hong Kong, China	1	100%	0	1
India	20	74%	7	27
Indonesia	23	70%	10	33
Japan	0	0%	34	34
Kiribati	0	0%	2	2
Lao PDR	0	0%	4	4
Macao, China	1	100%	0	1
Malaysia	18	95%	1	19
Maldives	1	33%	2	3
Marshall Islands	0	0%	1	1
Micronesia	0	0%	4	4
Mongolia	1	33%	2	3
Myanmar	3	100%	0	3
Nauru	0	0%	1	1
Nepal	1	50%	1	2
New Caledonia	0	0%	1	1

APRAST/19-WP/11
Attachment A

New Zealand	0	0%	9	9
Niue	0	0%	1	1
N. Mariana Is.	0	0%	3	3
Pakistan	1	10%	9	10
Palau	0	0%	1	1
Papua New Guinea	0	0%	1	1
Philippines	7	78%	2	9
Rep. of Korea	0	0%	8	8
Samoa	0	0%	1	1
Singapore	2	100%	0	2
Solomon Islands	0	0%	2	2
Sri Lanka	1	33%	2	3
Thailand	5	45%	6	11
Timor Leste	0	0%	2	2
Tonga	0	0%	2	2
Tuvalu	0	0%	1	1
Vanuatu	0	0%	2	2
Viet Nam	1	10%	9	10
Wallis et Futuma	0	0%	1	1
Total	93	26.27%	261	354

— END —