



ICAO

International Civil Aviation Organization

The Fifth Meeting of the Asia/Pacific  
Aerodrome Assistance Working Group (AP-AA/WG/5)

Maldives, 13 to 16 March 2023

**Agenda Item 4: Runway Safety and GRF Implementation**

**ENHANCED GLOBAL REPORTING FORMAT FOR ASSESSING AND  
REPORTING RUNWAY SURFACE CONDITIONS (GRF)**

(Presented by the Secretariat)

**SUMMARY**

This paper presents the updated status of GRF implementation by Asia and Pacific States.

**1. INTRODUCTION**

1.1 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.

1.2 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).*

## 2. DISCUSSION

### GRF Seminars, Webinars and Workshops

2.1 In order to enhance awareness and support States actions on GRF implementation, a number of seminars, webinars and workshops had been conducted at the global, regional and sub-regional levels by ICAO HQ, ICAO ROs/COSCAPs, PASO and ACI from 2019 to 2022. In addition, the tailored made GRF training courses were jointly offered by ICAO and industry partners to meet the needs of various aviation professions. Detailed information on GRF activities conducted by ICAO can be found at <https://www.icao.int/safety/Pages/GRF.aspx>.

### GRF Implementation Action Plan Template

2.2 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.

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

#### ***Conclusion APANPIRG/31/5 (AOP/SG/4–10): 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**.*

2.4 The template is available on ICAO APAC Website *eDocuments* under AGA heading and can be accessed at <https://www.icao.int/APAC/Pages/eDocs.aspx>

### GRF Implementation Monitoring and Status

2.5 ICAO had 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>.

2.6 The GRF implementation dashboard for Asia and Pacific States is shown on the **Figure 1** below.

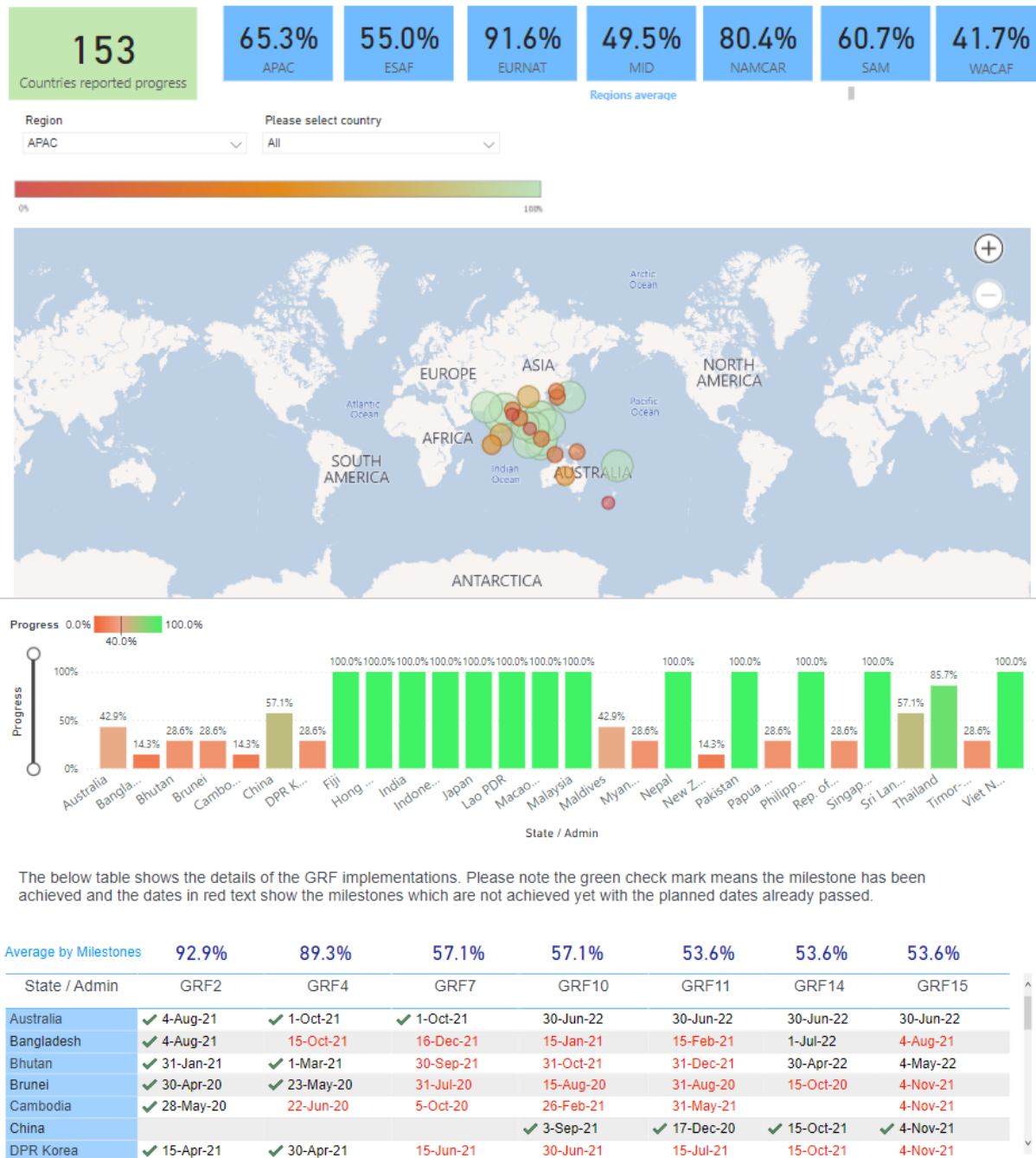


Figure 1: GRF Implementation Dashboard

2.7 In order to reflect the actual progress towards the GRF implementation, a periodic update by APAC States/Administration on actual implementation of the GRF Action Plan/Milestones was required. As implementation of GRF by all concerned stakeholders envisaged an enhancement of runway safety, e.g., reduction in runway excursions in future, and considering that only 14 APAC States/Administrations had implemented GRF on 4 November 2021 (GRF applicability date), APANPIRG/32 adopted the following Conclusion formulated by AOP/SG/5:

**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.*

2.8 ICAO APAC Office had received GRF Implementation Action Plans from 29 States/Administrations. 15 States implemented GRF in 2021 (14 States on 4 November 2021). The remaining 14 States are in the process of implementation of GRF. 12 States have yet to submit their GRF Implementation Action Plan to ICAO APAC Office.

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

2.9 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 assessment and reporting of runway condition report and issuance of the new SNOWTAM format should also be published in national AIP. The most appropriate section for publication of above information in AIP could be “AD 1.2.2 Snow plan” (refer to Appendix 2 of PANS-AIM (Doc 10066)).

Note:-

- 1) *Definition of SNOWTAM as per PANS-AIM (Doc 10066): A special series NOTAM given in a standard format providing a surface condition report notifying the presence or cessation of hazardous conditions due to snow, ice, slush, frost, standing water or water associated with snow, slush, ice or frost on the movement area.*
- 2) *Guidance on the issuance of the SNOWTAM is available on ICAO APAC Website <https://www.icao.int/APAC/Pages/eDocs.aspx> under ATM heading.*

2.10 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 **Conclusion APANPIRG/33/2** 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)).*

2.11 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.

2.12 The list of the Asia - Pacific States/Administrations that have published procedures for assessment and reporting of runway condition report and the issuance of SNOWTAM in AIP is depicted below in the Table 1.

| No. | States/Administrations that have implemented GRF              | Procedures for assessment and reporting of runway condition report and issuance of SNOWTAM in AIP | Section of AIP  |
|-----|---|---|---|
| 1   | Australia   | √   | AD 1.2, 2. Snow Plan; 3. Runway Surface Condition Assessment and Reporting (AIP, 23 Mar. 2022)  |
| 2   | France (New Caledonia, French Polynesia, and Wallis & Futuna) | √   | <b>POLYNÉSIE</b><br>AD 1.2.2 Runway Surface Condition Assessment and Reporting and Snow Plan (AIP, 29 Dec. 2022)<br><br><b>NOUVELLE CALEDONIE, WALLIS ET FUTUNA</b><br>AD 1.2.2 Runway Surface Condition Assessment and Reporting and Snow Plan (AIP, 26 Jan. 2023) |
| 3   | Japan   | √   | AD 1.2, 2.1. SNOWTAM (AIP, 24 Feb. 2022)  |
| 4   | Pakistan  | √   | AD 1.1, 5. Assessment and Reporting of Runway Surface Condition   |
| 5   | Republic of Korea   | √   | AD 1.2, 2. Snow Plan, Runway Surface Condition Assessment and Reporting, 2. Runway surface condition assessment and reporting (AIP, 09 Feb. 2023)   |
| 6   | Singapore   | √   | AD 1.1, 6 Runway Surface Condition Assessment and Reporting   |
| 7   | Sri Lanka   | √   | AD 1.1, 7. Runway Surface Condition Assessment and Reporting, 7.2. Responsibility (AIP, 26 Jan. 23)   |
| 8   | USA   | √   | ENR 1.1, 11. Runway Condition Reports (AIP, 16 July 2020)   |
| 9   | Vietnam   | √   | AD 1.2, 2. Runway Surface Condition Assessment and Reporting at the Airports of Viet Nam  |

Table 1 –States/Administration that have published procedures for assessment and reporting of runway condition report and issuance of SNOWTAM in AIP

2.13 States who have already published it in other sections of the AIP may wish to consider changing it to “AD 1.2.2 Snow plan.”

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) urge States to submit GRF Implementation Action Plan to ICAO APAC Office if yet to do so (*Conclusion APANPIRG/31/5* refers), and provide periodic status updates thereafter on actual implementation of GRF Action Items (Milestones) in accordance with GRF Implementation Action Plan developed by States until its full implementation (*Conclusion APANPIRG/32/2* refers);
- b) urge States to note and take necessary action on *Conclusion APANPIRG/33/2*; and
- c) discuss any relevant matters as appropriate.

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