

**ICAO***International Civil Aviation Organization***The Sixth Meeting of the Asia/Pacific Aerodrome Design and Operations Task Force (AP-ADO/TF/6)***Langkawi, Malaysia, 18 to 21 February 2025***Agenda Item 2: Review Outcome of Relevant Meetings****RELEVANT OUTCOMES OF AOP/SG/8**

(Presented by the Secretariat)

SUMMARY

This paper presents the outcomes of the AOP/SG/8 (Bangkok, Thailand, 15 to 19 July 2024) relevant to aerodrome design and operations.

1. INTRODUCTION

1.1 The Eighth Meeting of the Aerodrome Operations and Planning Sub-group (AOP/SG/8) was held in Bangkok, Thailand from 15 to 19 July 2024.

1.2 The meeting was attended by 117 participants from 18 Member States, 1 Special Administrative Regions and 3 International Organizations.

1.3 The Meeting adopted 4 (Four) Conclusion and 3 (Three) Decision and formulated 2 Draft Conclusions to be adopted by APANPIRG/35 on 27 November 2024.

1.4 The final report of the AOP/SG/8 Meeting is available at:
<https://www.icao.int/APAC/Meetings/Pages/2024-AOP-SG-8.aspx>

2. DISCUSSION

2.1 Some important outcomes of AOP/SG/8 are summarized in the ensuing paragraphs.

Report on the Fifth Meeting of the Asia/Pacific Aerodrome Design and Operations Task Force (AP-ADO/TF/5)

2.2 AOP/SG/8 reviewed the Report of the Fifth Meeting of the Asia/Pacific Aerodrome Design and Operations Task Force (AP-ADO/TF/5, Chiang Rai, Thailand from 30 January – 2 February 2024).

Inconsistency Requirement in ICAO Annex 14 Volume I

2.3 Noting the inconsistency observed in Annex 14 Volume I and Aerodrome Design Manual (Doc 9157) Part 4 vis-as-vis some best practices as recommended in ACI Handbook and FAA's study regarding requirements in Taxiway Centerline Marking, Threshold Marking, Taxiway Transverse Stripe Marking, Runway Pavement Edge Flushing and Precision Approach Lighting, AOP/SG/8 adopted the Conclusion AOP/SG/8-1 formulated by AP-ADO/TF/5:

Conclusion AOP/SG/8-1: Inconsistency Requirements in ICAO Annex 14 Volume I (Taxiway Centerline Marking, Threshold Marking, Taxiway Transverse Stripe, Pavement Edge Flushing, and Precision Approach Lighting)			
What: That, ICAO HQ should be consulted on the inconsistency in and conflicting ICAO Annex 14 Volume I requirements (Taxiway Centerline Marking, Threshold Marking, Taxiway Transverse Stripe Marking, Pavement Edge Flushing, and Precision Approach Lighting) identified in AP-ADO/TF/5-WP/06 (Appendix B to the AP-ADO/TF/5 Report) for further deliberation at the respective Working Groups (such as, Visual Aids Working Group and Aerodrome Design Working Group).		Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical	
Why: States to establish clear standard and recommended practices (SARPs) on Taxiway Centerline Marking, Threshold Marking, Taxiway Transverse Stripe, Pavement Edge Flushing, and Precision Approach Lighting for enhancing safety and efficiency.		Follow-up: <input type="checkbox"/> Required from States	
When: 19-Jul-24		Status: Adopted by Subgroup	
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input checked="" type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: XXXX			

Review on the Color Shift Characteristics in relation to the Photometric Testing Requirements Pertaining to the Aeronautical Ground Lighting Systems using Solid State Lighting (LED)

2.4 Acknowledging the benefit in including colour in the national requirements (as recommendations) to protect the interest of the airports and the regulator for ensuring the 4C's (Configuration, Colour, Candelas and Coverage) compliance of the AGL system, AOP/SG/8 adopted Conclusion AOP/SG/8-2 formulated by AP-ADO/TF/5 regarding suggested amendment to 10.5.3 to 10.5.5 of Annex 14, Volume I for inclusion of the colour measurement:

Conclusion AOP/SG/8-2: Proposal for Amendment to 10.5.3 to 10.5.5 of Annex 14, Volume I for inclusion of the colour measurement			
What: That, ICAO Visual Aids Working Group is requested to review AP-ADO/TF/5 – WP/08 (Appendix C to the Report of AP/SG/8) regarding suggested amendment to 10.5.3 to 10.5.5 of Annex 14, Volume I for inclusion of the colour measurement.		Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical	
Why: To protect the interest of the airports and the aviation regulator for ensuring the 4C's compliance of the AGL system.		Follow-up: <input type="checkbox"/> Required from States	
When: 19-Jul-24		Status: Adopted by Subgroup	
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input checked="" type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: XXXX			

Review on the Requirement of the Runway Guard Lights Provision when Stop Bars are available and Recommendations on the Stop Bar Operation Sequence Timings

2.5 AOP/SG/8 noted that AP-ADO/TF/5 had discussed the need for runway guard lights and the dependency of the stop bar lighting under different operational conditions which was presented as AP-ADO/TF/5 – WP/09. As per ICAO Annex 14, Volume I SARPs, the runway guard lights are required to be provided where stop bars are not installed when Runway Visual Range (RVR) is less than 550 meters. As per AP-ADO/TF/5 recommendation,

2.6 AOP/SG/8 adopted the Conclusion AOP/SG/8-3 formulated by AP-ADO/TF/5 which is appended below:

Conclusion AOP/SG/8-3 (Draft Conclusion AP-ADO/TF/5 – 3): Review on the Requirement of the Runway Guard Lights Provision when Stop Bars are available and Recommendations on the Stop Bar Operation Sequence Timings			
What: That, ICAO Visual Aids Working Group is requested to review AP-ADO/TF/5 – WP/09 (Appendix D to the Report of AOP/SG/8) for consideration of recommendations made in the AP-ADO/TF/5 – WP/09 in Section 5.1 b) and c) regarding runway guard lights.		Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical	
Why: To enhance runway safety through operations of runway guard lights as part of effective runway incursion prevention measures in all visibility or weather conditions.		Follow-up: <input type="checkbox"/> Required from States	
When: 19-Jul-24		Status: Adopted by Subgroup	
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input checked="" type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: XXXX			

2.7 Based on the above Conclusions AOP/SG/8/1 to AOP/SG/8/3, all three Working Papers (AP-ADO/TF/5-WP/06; WP/08 and WP/09) were sent to Air Navigation Bureau, ICAO HQ on 2 September 2024 for further deliberation at the respective Working Groups (such as, Visual Aids Working Group and Aerodrome Design Working Group).

Report on the Sixth Meeting of Asia/Pacific Aerodrome Assistance Working Group (AP-AA/WG/6)

2.8 AOP/SG/8 reviewed the Report of the Sixth Meeting of the Asia/Pacific Aerodrome Assistance Working Group (AP-AA/WG/6, Bangkok, Thailand from 2 to 5 April 2024).

Generic Aerodrome SMS Evaluation Tools and Guidance

2.9 AOP/SG/8 reviewed the Generic Aerodrome SMS Evaluation Tool and Guidance developed by the AP-AA/WG and adopted the Decision AOP/SG/8-5 formulated by AP-AA/WG/6:

Decision AOP/SG/8-5: Generic Aerodrome SMS Evaluation Tool and Guidance			
What: that, the Generic Aerodrome SMS Evaluation Tool (Appendix F to the Report of AOP/SG/8) be made available on the ICAO Asia/Pacific Regional Office Website for reference by States/Administrations.		Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical	
Why: To provide CAA inspectors and the aerodrome operators with a more comprehensive set of guidelines for the evaluation of Aerodrome Safety Management System.		Follow-up: <input type="checkbox"/> Required from States	
When: 19-Jul-24		Status: Adopted by Subgroup	
Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: AP-AA/WG			

Runway Safety Team (RST) and Runway Safety Go-Team

2.10 AOP/SG/8 reviewed the RST questionnaire (Framework for Monitoring the Establishment and Implementation of RST at aerodromes in APAC States) developed by AP-AA/WG and adopted the Conclusion AOP/SG/8 – 6 formulated by AP-AA/WG/6 and appended below:

Conclusion AOP/SG/8-6: Framework for Monitoring the Establishment and Implementation of Runway Safety Team (RST) at aerodromes in APAC States	
What: That, the “Framework for Monitoring the Establishment and Implementation of Runway Safety Team (RST) at aerodromes in APAC States” provided in Appendix G to the Report of AOP/SG/8 be circulated to States/Administrations for their response. The Framework be also published on the ICAO APAC eDocuments Webpage under AGA Heading.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical

Why: To gather the information from the States/Administrations on the establishment and operation of the RST at aerodromes.	Follow-up: <input checked="" type="checkbox"/> Required from States
When: 19-Jul-2024	Status: Adopted by Subgroup
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: AP-AA/WG/6	

2.11 AOP/SG/8 acknowledged the significance of the RSTs in promoting runway safety, encouraged collaborative efforts among stakeholders, and emphasized the value of seeking ICAO assistance through Runway Safety Go-Team Missions to enhance safety standards at aerodromes in the Asia/Pacific Region.

2.12 The RST Questionnaire is also available on the ICAO Asia/Pacific Regional Office eDocuments webpage: <https://www.icao.int/APAC/Pages/eDocs.aspx> under AGA heading.

2.13 ICAO APAC has circulated the RST Questionnaire to States/Administrations via State Letter Ref.: T 11/5.13.2 – AP111/24 (AGA) on 3 September 2024 and requested to send back the completed questionnaire by 30 December 2024. In response to the above State Letter, only five States have submitted the completed questionnaire to ICAO APAC Office.

Asia Pacific Generic Guidance Materials (GGMs) and Custodian

2.14 AOP/SG/8 noted that the AP-AA/WG/6 Meeting had reviewed and updated the list of GGMs developed by the AP-AA/WG including the ICAO Asia-Pacific Generic Aerodrome SMS Evaluation and Guidance presented at AP-AA/WG/6 Meeting.

2.15 AOP/SG/8 adopted the Decision AOP/SG/8-7 formulated by AP-AA/WG/6:

Decision AOP/SG/8-7 (Draft Decision AP-AA/WG/6 – 3): Updated List of Asia/Pacific Generic Guidance Materials Developed by the AP-AA/WG with Details of the Custodians		
What: That, the <i>Attachment A</i> to the <i>Procedure for periodic review and update of the Asia/Pacific Generic Guidance Materials (Appendix H</i> to the Report of the AOP/SG/8) be published on the ICAO APAC Website at eDocuments Webpage under the AGA heading.		Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: To incorporate in the list the ICAO Asia-Pacific Generic Aerodrome SMS Evaluation and Guidance and with updated details of the custodian of the GGMs.	Follow-up: <input type="checkbox"/> Required from States	
When: 19-Jul-24	Status: Adopted by Subgroup	
Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: AP-AA/WG		

2.16 The *Procedure for periodic review and update of the Asia/Pacific Generic Guidance Materials* with the updated list of guidance materials developed by the AP-AA/WG with the details of

the custodians of the respective guidance documents can be accessed at <https://www.icao.int/APAC/Pages/eDocs.aspx>.

Report on the Sixth Meeting of the Asia/Pacific Wildlife Hazard Management Working Group (AP-WHM/WG/6)

2.17 AOP/SG/8 reviewed the Report of the Sixth Meeting of the Asia/Pacific Wildlife Hazard Management Working Group (AP-WHM/WG/6) held in Bangkok, Thailand from 14 to 17 May 2024.

ICAO USOAP CMA and AGA Findings in WHM

2.18 AP-WHM/WG/6 had noted APAC average WHM EI in AGA area was 50.26 % as compared to the global average of 61.83% as of April 2024.

2.19 AP-WHM/WG/6 had encouraged APAC States/Administrations with EI less than 75% in WHM related PQs to allocate more resources and efforts to improve EI to meet the 75% of GASP target by 2024; and to approach respective COSCAPs or ICAO APAC Office, if State(s) require assistance in WHM.

Asia Pacific Guidance Materials and Custodian

2.20 AOP/SG/8 adopted the Decision AOP/SG/8-9 formulated by AP-WHM/WG/6 which is appended below:

Decision AOP/SG/8-9 (Draft Decision AP-WHM/WG/6 – 2): Updated List of Asia/Pacific Generic Guidance Materials Developed by the AP-WHM/WG with Details of the Custodians		
What:	That, the Attachment B to the <i>Procedure for periodic review and update of the Asia/Pacific Generic Guidance Materials (Appendix H</i> to the Report of the AOP/SG/8) be published on the ICAO APAC Website at eDocuments Webpage under the AGA heading after adoption by APANPIRG/35 the ICAO Asia-Pacific Wildlife Hazard Management Go-Team Assistance Mission Programme Document.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why:	To incorporate in the list the ICAO Asia-Pacific Wildlife Hazard Management Go-Team Assistance Mission Programme Document with updated details of the custodian of the GGMs.	Follow-up: <input type="checkbox"/> Required from States
When:	19-Jul-24	Status: Adopted by Subgroup
Who:	<input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: AP-AA/WG	

2.21 As APANPIRG/35 held in November 2025 approved the ICAO Asia-Pacific Wildlife Hazard Management Go-Team Assistance Mission Programme Document (**Appendix C** to APANPIRG/35 Report on Agenda Item 3.1), this document is included as an Appendix to the ICAO APAC WHM Go-Team Methodology and the consolidated document is included in the List of the GGMs as **Attachment B** to the Procedure for periodic review and update of the Asia/Pacific Generic Guidance Materials.

2.22 ICAO Asia/Pacific WHM Go-Team Methodology along with the WHM Go-Team Assistance Mission Programme has been published on the ICAO APAC Website, eDocuments webpage under AGA heading. Furthermore, the *Procedure for periodic review and update of the Asia/Pacific Generic Guidance Materials* with the updated list of guidance materials on WHM with the details of the custodians of the respective guidance documents can be accessed at <https://www.icao.int/APAC/Pages/eDocs.aspx>.

ICAO USOAP CMA and AGA Findings

2.23 AOP/SG/8 noted that the APAC Average AGA EI score was 60.73% compared to Global Average of 63.06% as of June 2024.

2.24 AOP/SG/8 also noted the following results:

- 1) 19 APAC States have their EI in AGA area less than 60%;
- 2) 5 APAC States have their EI in AGA area more than 60% to less than 75%; and
- 3) 15 States have their EI in AGA area more than or equal to 75%

2.25 24 States with EI less than 75% would require more resources and efforts to enhance their EI and meet the 75% EI target as set forth in the ICAO Global Aviation Safety Plan (GASP) 2023-2025 (Doc 10004).

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

- a) note the information contained in this paper;
- b) note Conclusion AOP/SG/8-1, 2, 3 & 6 (para 2.3, 2.4, 2.6 & 2.10 refers) and Decisions AOP/SG/8 – 5, 7 & 9 (para 2.9, 2.15 & 2.20); and
- c) discuss any other relevant matters as appropriate.

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