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*International Civil Aviation Organization*

The Seventh Meeting of the Asia/Pacific Aerodrome Design and Operations Task Force (AP-ADO/TF/7)

*(Bangkok, Thailand, 17 to 20 February 2026)*

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**Agenda Item 5: Asia and Pacific Regional Guidance**

**ASSESSMENT AND MITIGATION OF GLARE AND GLINT FROM SOLAR PANELS  
INSTALLED AT OR IN THE VICINITY OF THE AERODROME**

(Presented by MALAYSIA)

**SUMMARY**

This paper presents an update on the progress of Task 6/2 under the AP-ADO/TF, which aims to develop regional guidance on the assessment and mitigation of glare and glint from solar panels installed at or near aerodromes. Led by Malaysia, the Small Working Group (SWG) has outlined a timeline towards completing the draft by Q4 2026. Efforts include stakeholder engagement, compilation of national practices, and coordination with ICAO provisions. The initiative seeks to balance environmental sustainability and aerodrome safety through harmonized assessment methods and practical mitigation strategies.

**1. INTRODUCTION**

1.1. The Sixth Meeting of the Asia/Pacific Aerodrome Design and Operations Task Force (AP-ADO/TF/6) acknowledged the growing concern on the operational impact of glare and glint resulting from the installation of photovoltaic (PV) solar panels at airport terminal buildings or in the vicinity of aerodromes.

1.2. In response to this concern, AP-ADO/TF/6 agreed to establish a Small Working Group (SWG) to develop regional guidance for the assessment and mitigation of glare and glint from solar panel installations. The SWG, led by Malaysia, includes participation from India, the Philippines, and Sri Lanka, with Singapore invited to contribute based on their operational experience.

**2. DISCUSSION**

Status Update

2.1. Malaysia acknowledges the responsibility to lead the Small Working Group (SWG) and is committed to developing a regional guidance material in collaboration with the member States.

2.2. Since AP-ADO/TF/6, Malaysia has proactively engaged with local and regional solar PV suppliers to understand technological developments in anti-reflective solutions, including the latest advancements in coating technologies designed to minimize glare without reducing energy efficiency. These engagements aim to inform the drafting of effective, practical mitigation strategies that can be adopted within the regional guidance document.

2.3. As part of the structured roadmap, Malaysia plans to initiate engagement sessions with SWG member States in Q1 2026 to align technical expectations, identify preliminary concerns, and establish a shared understanding on potential mitigation strategies. These sessions will serve as the

foundation for drafting the regional guidance and will also help set the direction for the internal stakeholder consultations within Malaysia, which are scheduled for the following quarter.

2.4. The SWG will progress through a structured roadmap to develop the regional guidance material. The plan includes targeted stakeholder engagements, technical assessments, and iterative drafting phases to ensure practical and implementable outcomes. The tentative milestones are as follows:

No	Milestone	Timeline
1	Convene engagement sessions with SWG member States (Malaysia, India, Philippines, Sri Lanka) and initiate technical discussions.	Q1 2026
2	Conduct internal consultations within Malaysia involving civil aviation, energy agencies, airport operators, and regulatory stakeholders.	Q2 2026
3	Prepare and circulate the first draft of the regional guidance material for review and feedback among SWG members.	Q3 2026
4	Finalize the regional guidance and present outcomes at AP-ADO/TF/8.	Q4 2026

2.5. The coordination meeting planned for Q1 2026 will serve to confirm member contributions, share relevant case studies, and agree on the structure of the guidance document.

2.6. The regional guidance is expected to provide a clear framework for States and aerodrome operators to assess, mitigate, and manage the risks associated with glare and glint from solar panels. It will incorporate best practices, technical methodologies, and operational considerations to ensure that sustainability initiatives such as solar PV installations do not compromise aviation safety.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the progress made since AP-ADO/TF/6;
- b) endorse the proposed timeline and milestones leading to the completion of Task 6/2; and
- c) encourage continued contributions from India, the Philippines, Sri Lanka, and potential inclusion of Singapore in the SWG.

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