



International Civil Aviation Organization
Asia and Pacific Office

Thirteenth Meeting of the Asia Pacific Accident Investigation Group (APAC-AIG/13)

(New Delhi, India, 30-31 October 2025)

Agenda Item 4: Enhancing accident investigation capabilities

SIXTH INTERNATIONAL ACCIDENT INVESTIGATION FORUM (IAIF/6)

(Presented by Singapore)

SUMMARY

This paper provides information on the Sixth International Accident Investigation Forum (IAIF/6) organised by the Transport Safety Investigation Bureau (TSIB) of Singapore from 21 to 23 May 2025.

This paper highlights the main discussions at the Forum, including emerging topics such as the use of artificial intelligence (AI) in accident investigation and safety hazards associated with burnt carbon fibre at accident sites.

APAC-AIG could consider conducting future workshops or training in these areas.

1. INTRODUCTION

1.1 The International Accident Investigation Forum is a triennial event established by TSIB to foster dialogue, strengthen cooperation, and promote knowledge sharing among the global accident investigation community.

1.2 The sixth edition of the Forum (IAIF/6) was held in Singapore from 21 to 23 May 2025, and was attended by 120 participants, including senior government safety officials, senior aircraft accident investigators and aviation industry safety professionals from 32 States/Administrations and 24 international organisations and industry partners.

2. DISCUSSION

2.1 The Forum was set into context with keynote addresses by:

- a) Mr. Pascal Luciani, Deputy Director, Air Navigation Bureau, ICAO;
- b) Mr. Angus Mitchell, Chief Commissioner, Australian Transport Safety Bureau (ATSB); and
- c) Mr. Yoan Marier, Chair, Transportation Safety Board of Canada (TSB).

2.2 All three keynote speakers underscored the increasing complexity of aviation operations and reaffirmed the indispensable role of independent, well-equipped investigation bodies in safeguarding aviation systems. They emphasised the need for continuous learning and strong international collaboration to meet future aviation safety challenges.

2.3 Over the three days, 22 speakers delivered presentations covering agendas which included:

- a) Developments in safety investigation standards and policies;
- b) Lessons from recent investigations;
- c) Technological advances in investigation methods;
- d) Managing current and future investigation challenges; and
- e) Training and capacity building.

2.4 The presentations generated a lot of interest and discussions among the participants. Among the many topics discussed, two areas of particular interest to the investigation community were:

- a) Application of Artificial Intelligence (AI) in Investigations – this topic highlighted opportunities for AI to improve occurrence classification, evidence analysis, investigation management and predictive risk assessment
- b) Accident Site Hazards involving Burnt Composite Materials – with the increased in the use of composite materials in modern aircraft for fuel efficiency, this topic addressed the health and safety risks to investigators and first responders, and discussed best practices for protection and mitigation.

2.5 As part of the programme, the IAIF/6 participants visited the MITRE Asia Pacific facility in Singapore, where they observed simulation capabilities including a full-cockpit simulator, wrap-around ATC tower, and advanced traffic flow management workstations.

2.6 The Forum will be renamed the International Safety Investigation Forum (ISIF) from its next edition in 2028, reflecting a broader focus on safety improvement. This includes proactive analysis of incidents and systemic risks to further improve aviation safety.

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

- a) note the successful organising of IAIF/6 by Singapore's TSIB;
- b) note the emerging importance of AI applications in aircraft accident investigation and the increased risk of burnt composite materials to aircraft accident investigators and consider these topics as possible areas for future APAC-AIG workshops or training.