



International Civil Aviation Organization
Asia and Pacific Office

Fourteenth Meeting of the Asia Pacific Accident Investigation Group (APAC-AIG/14)

(Bangkok, Thailand, 7-9 October 2026)

Agenda Item 5: Regional Cooperation

FLIGHT RECORDER ANALYSIS TRAINING FOR AAIC THAILAND

(Presented by TSIB Singapore and Thailand AAIC)

SUMMARY

The Transport Safety Investigation Bureau of Singapore (TSIB) conducted a flight data analysis training programme for investigators from Thailand's Aircraft Accident and Incident Investigation Commission (AAIC) in July 2026. The programme covered flight data analysis methodologies, including occurrence identification, data validation, and correlating flight data with cockpit voice recorder information.

Topics such as cockpit voice recorder transcription, supplementary flight data, and underwater search for flight recorders were also covered.

The participants attended theoretical and practical sessions and visited the TSIB Recorder Laboratory to learn about flight recorder recovery and data extraction.

1. INTRODUCTION

1.1 On 7 to 10 July 2026, the Transport Safety Investigation Bureau (TSIB) of Singapore conducted a four-day flight data analysis training programme for 10 investigators from Thailand's Aircraft Accident and Incident Investigation Commission (AAIC). The programme provided an opportunity for TSIB to share its experience and methodologies in analysing recovered flight data.

1.2 The training comprised both theoretical sessions and practical exercises, enabling participants to gain a better understanding of flight data analysis processes and investigative techniques. As part of the programme, the AAIC investigators visited the TSIB Recorder Laboratory, where they were introduced to TSIB's flight recorder recovery and data extraction capabilities. Additional topics included cockpit voice recorder transcription, the use of supplementary recorded flight data (e.g. Quick Access Recorders), and procedures for locating and underwater search for flight recorders.

2. DISCUSSION

2.1 The training programme provided AAIC investigators with practical exposure to flight data analysis techniques, including occurrence identification, data validation, and the correlation of flight data with cockpit voice recorder information. The programme enabled AAIC investigators to better appreciate the value of flight data and supplementary recorded flight data in supporting accident and incident investigations.

2.2 Through a combination of classroom instruction and practical exercises, participants developed a deeper understanding of flight data analysis processes and their application to accident and incident investigations. The programme also provided participants with an opportunity to revisit and analyse historical occurrence data, reinforcing key flight data analysis concepts and methodologies.

2.3 Participants were introduced to TSIB's cockpit voice recorder transcription processes and gained insights into the procedures for locating and recovering flight recorders from over-water accidents, including the associated operational challenges.

2.4 Establishment of flight data recorder laboratory is a new challenge of AAIC Thailand. AAIC recognises the importance of exchanging technical knowledge and best practices with other Accident Investigation Authorities (AIAs). Developing the expertise on flight data read-out and analysis, as well as the competency of investigators, requires considerable time and practical experience. Therefore, sharing knowledge, experience, and best practices among AIAs is considered as an appropriate approach to accelerating the development of the laboratory and enhancing the technical competency of AAIC investigator.

2.5 Besides providing an opportunity to exchange technical knowledge and best practices in flight recorders read out and analysis, the training also strengthened relationships between TSIB and AAIC investigators and contributed to the enhancement of accident investigation capabilities within the Asia-Pacific region.

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

- a) note the information provided in this paper; and
- b) encourage continued cooperation and capacity-building initiatives among accident investigation authorities in the Asia-Pacific region.

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