



International Civil Aviation Organization  
*Asia and Pacific Office*

ICAO

**Nineteenth Meeting of the Asia Pacific Regional Aviation Safety Team (APRAST/19)**

*(Bangkok, Thailand, 6-10 February 2023 – Hybrid)*

**Agenda Item 4: Presentations – State / Industry / ICAO**

**PERIODIC REVIEW OF SEI OUTPUTS**

*(Presented by SEI WG)*

**SUMMARY**

Following the development of Safety Enhancement Initiatives (SEIs), the implementation of completed SEI outputs is then supported by APRAST members to reduce aviation risk. However, with the technological improvements and the increasing complexity of the operating environment, the completed SEI outputs may need to be revised or removed as the SEI outputs must be current for realistic implementation by APRAST members to cope with the identified risk.

SEI WG conducts the periodic review of SEI outputs between every APRAST meeting and provides the result to APRAST meetings to ensure the currency of all completed SEI outputs is maintained.

Pursuant to the periodic SEI output review process and Decision APRAST 18/2, this paper reports the review result conducted by the SEI WG for the output of SEIs LOC6.

Action by the meeting is in Paragraph 3 of this Working Paper.

**1. INTRODUCTION**

1.1 Following the development of SEIs, the implementation of completed SEI outputs is then supported by APRAST members to reduce aviation risk. However, with the technological improvements and the increasing complexity of the operating environment, the completed SEI outputs may need to be revised or removed as the SEI outputs must be current for implementation by APRAST members to cope with the identified risk.

1.2 Even though APRAST members can provide their feedback to RASG-APAC/APRAST Secretariat individually at any time as indicated in each SEI output, to ensure the RASG-APAC approved or endorsed SEI outputs remain current and valid for implementation. SEI WG concluded to conduct the periodic review of SEI outputs by batch between every APRAST meeting and report to APRAST meetings. Currently, 28 APRAST Members States/Administrations and International/Regional Organisations<sup>1</sup> have joined the SEI WG. The SEI outputs to be reviewed are based on the sequence of the date of the SEI outputs approved/endorsed by the RASG-APAC. To facilitate the SEI outputs review, a standard review form is used for the group members to review each SEI output and provide their feedback accordingly.

<sup>1</sup> The 28 members of SEI WG are Australia, Bangladesh, Bhutan, Cambodia, China, Macao-China, Hong Kong-China, India, Indonesia, Japan, Lao, Malaysia, Mongolia, Nepal, Republic of Korea, Singapore, Thailand, AAPA, ACI, Airbus, CANSO, COSCAP-NA, COSCAP-SA, COSCAP-SEA, IATA, IFALPA, IFACTA and US CAST.

1.3 As of APRAST/19, all 17 SEI outputs have been reviewed by the SEI WG and the review results have been sequentially reported to APRAST and RASG-APAC meetings. RASG-APAC requests States/Administrations, International and Regional Organisations including COSCAPs in this region continue to support the work of SEI WG and provide experts and champions to assist the development of future Safety Enhancement Initiatives when needed.

## **2. DISCUSSION**

2.1 In APRAST/18, the meeting agreed with SEI WG to conduct the last batch of SEI review on the output of SEI LOC6, which include the Manual on Aeroplane Upset Prevention And Recovery Training (ICAO Doc 10011), Procedures for Air Navigation Services-Training (ICAO Doc 9868) and Airplane Upset Prevention and Recovery Training Aid (AUPRTA). The SEI WG will report the review result back to APRAST/19 as the Decision APRAST 18/2.

2.2 In this SEI review process, 5 APRAST members (Macao – China, Singapore, Thailand, IATA, and US CAST) from the SEI WG provided their review results by submitting the SEI review forms or provided their comments by email before the deadline on 31 Nov 2022.

2.3 Based on the received feedback from the SEI WG members, the output of SEI LOC6 is still considered current and valid for implementation. At the same time, SEI WG also received several observations and suggestions from members to further enhance this SEI output. One of the observations is the hyperlink of the ICAO Doc 9868 - Procedures for Air Navigation Services-Training should be updated in Safety Tools under the ICAO Regional Office website. SEI WG has already coordinated with ICAO regional office and the ICAO Doc 9868 under the SEI LOC6 in the Safety Tools website was updated. Also, a cover letter is suggested to accompany the AUPRTA document to describe the background and the rationale behind this LOC6 SEI output. In addition, further inputs and update from ICAO is needed on whether any update and planning to amend the ICAO Doc 10011 as well as the ICAO UPRT website. Apart from focusing on revising the ICAO UPRT material, there is a suggestion to conduct further study and analysis to identify the challenges and difficulties faced by aviation regulatory authorities, approved training organizations and aircraft operators during the UPRT implementation in this region. In this regard, SEI WG has drafted a survey for this purpose and circulated it to all SEI WG members to review for discussion during the SEI WG breakout session in APRAST/19.

2.4 SEI WG will discuss and follow up on the abovementioned observations and suggestions during the SEI WG breakout session and determine the possible next step for the SEI output. With the completion of this SEI LOC6 output review, SEI WG has completed all the SEI outputs review as planned since APRAST/13. (See Appendix 1). SEI WG will decide how to conduct the second round of the SEI outputs review during the breakout session in APRAST/19 as necessary.

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

3.1 The Meeting is invited to:

- a) note the actions taken by SEI WG in this working paper;
- b) endorse the review result conducted by the SEI WG that the output of SEI LOC6 is still current and valid for implementation;
- c) secretariat to update the SEI review status of the output of SEI LOC6 under the safety tools session in the ICAO APAC webpage as Appendix 1 in this working paper; and
- d) encourage States/Administrations and Industries to join the SEI WG and actively participate in the SEI WG activities and to continue supporting SEI implementation for the actions cited in the Asia Pacific – Regional Aviation Safety Plan under the OPS roadmap.

SEI		SEI Outputs	Approved	Periodic Reviewed by
1.	CFIT 1	Model Regulation on Ground Proximity Warning System (GPWS)	Approved at RASG-APAC/3 (Jun 2013)	APRAST/13 (Dec 2018)
2.	CFIT 1	Advisory Circular — Guidance for Operators to Ensure Effectiveness of GPWS Equipment	Approved at RASG-APAC/3 (Jun 2013)	APRAST/13 (Dec 2018)
3.	CFIT 1	Advisory Circular — Guidance for Operators on Training Programme on the use of Ground Proximity Warning System (GPWS)	Approved at RASG-APAC/3 (Jun 2013)	APRAST/13 (Dec 2018)
4.	CFIT 5	Advisory Circular — Crew Resource Management Training Programme (CRM)	Approved at RASG-APAC/3 (Jun 2013)	APRAST/14 (May 2019)
5.	CFIT 6	Advisory Circular — Controlled Flight into Terrain (CFIT) and Approach and Landing Accident Reduction (ALAR) Training Programme	Approved at RASG-APAC/3 (Jun 2013)	APRAST/14 (May 2019)
6.	LOC 5	Advisory Circular — Mode Awareness and Energy State Management Aspects of Flight Deck Automation	Approved at RASG-APAC/3 (Jun 2013)	APRAST/14 (May 2019)
7.	RE 2	Guidance material on Unstabilised Approach	Endorsed at RASG-APAC/3 (Jun 2013)	APRAST/15 (Jun 2020)
8.	CFIT 3	Model Advisory Circular — Instrument Approach Procedures Using Continuous Descent Final Approach Techniques	Approved at RASG-APAC/4 (Nov 2014)	APRAST/15 (Jun 2020)
9.	CFIT 8	Model Advisory Circular — Issuance of Terrain or Obstacle Alert Warning	Approved at RASG-APAC/4 (Nov 2014)	APRAST/15 (Jun 2020)
10.	RS 1	Runway Safety Maturity Checklist	Endorsed at RASG-APAC/4 (Nov 2014)	APRAST/16 (Mar 2021)
11.	RE 7	Guidance material and training program for runway pavement, maintenance and operations from aerodrome operator's perspective	Endorsed at RASG-APAC/4 (Nov 2014)	APRAST/16 (Mar 2021)
12.	LOC 1 CFIT 2	Model Advisory Circular — Air Operators Standard Operating Procedures for Flight Deck Crewmembers	Approved at RASG-APAC/5 (Oct 2015)	APRAST/17 (Jan 2022)
13.	CFIT 4	Guidance on the Establishment of a Flight Data Analysis Programme (FDAP)	Approved at RASG-APAC/5 (Oct 2015)	APRAST/17 (Jan 2022)
14.	CFIT 7	Guidance for Air Operators in Establishing a Flight Safety Documents System	Approved at RASG-APAC/5 (Oct 2015)	APRAST/17 (Jan 2022)
15.	RI 2	Model Advisory Circular — Runway Incursion Prevention and Pilot Training	Approved at RASG-APAC/6 (Aug 2016)	APRAST/18 (Jun 2022)
16.	LOC 2 LOC 4	Guidance Material on Flight Crew Proficiency	Approved at RASG-APAC/7 (Jul 2017)	APRAST/18 (Jun 2022)
17.	LOC 6	Guidance material on Upset Prevention and Recovery Training (UPRT) - ICAO Doc 10011 - ICAO Doc 9868 - AUPRTA	Approved at RASG-APAC/8 (Sep 2018)	ARRAST/19 (Jan 2023)