International Civil Aviation Organization
Asia and Pacific Office

Twenty-second Meeting of the Asia Pacific Regional Aviation Safety Team (APRAST/22)

(Bangkok, Thailand, 30 September to 04 October 2024)

Agenda Item 5:   **Presentations – State / Industry / ICAO**

SAFETY ENHANCEMENT INITIATIVE (SEI) OUTPUT REVISION FOR CONSIDERATION AND APPROVAL

(Presented by SEI WG)

SUMMARY

Runway Safety (RS) is a high-risk category of occurrence identified in the Global Aviation Safety Plan and the Asia Pacific Regional Aviation Safety Plan. To mitigate the risk of RS in commercial aviation such as runway excursions (RE), RASG-APAC/4 endorsed guidance material and training for aerodrome operators.

The SEI outputs are continuously reviewed for currency and validity by the APRAST's SEI WG. The SEI WG has completed its review of RE/7, *Guidance material and training program for runway pavement, maintenance and operations from aerodrome operator's perspective,* and proposes the attached revision of the SEI output be approved by the APRAST.

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. 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.

1.3   As of APRAST/19, all 17 SEI outputs have been reviewed by the SEI WG. Therefore, the decision was made to begin a 2nd round of review. The SEI Runway Excursion (RE)/7 safety output, *Guidance material and training program for runway pavement, maintenance and operations from aerodrome operator's perspective,* constitutes the first of the 2nd round of SEIs to be reviewed and revised accordingly.

1.4   At the 13th meeting of the RASG-APAC in December 2023, the members decided to empower the APRAST and its Subgroups to adopt certain Decisions and Conclusions to simplify the processes and shorten development time for all APRAST work outputs. APRAST can adopt, inter alia, Decisions and Conclusions related to "all technical and operational aspects of APRAST work within its TORs including the development of regional guidance material for publication in ICAO APAC website" (ref. RASG-APAC Procedural Handbook – 3rd edition, Appendix B, section 4.0).

2.   DISCUSSION

2.1   Runway Safety (RS) is a global and regional high-risk category of occurrence respectively identified in the Global Aviation Safety Plan and the Asia Pacific Regional Aviation Safety Plan. To mitigate the risk of RS in commercial aviation, RASG-APAC/4 endorsed guidance material and a training programme for aerodrome operators in November 2014, known as RE/7. The purpose is to help reduce the risk of runway excursions by providing aerodrome operators with guidance materials and training in the form of courses and seminars on runway maintenance and operations based on Annex 14 Standards and Recommended Practices (SARPs) and industry best practices.

2.2   As per APRAST Decision 19/9, the SEI WG decided to conduct the first batch of the 2nd round of SEI reviews on the output of RE/2, *Guidance material on Unstablized Approach*, and RE/7. The SEI WG will report the review result for RE/2 back to APRAST/23 as it's still going through revision by the champion. ACI agreed to champion the revision for RE/7.

2.3   In this RE/7 review process, four APRAST members (Macao – China, Hong Kong - China, Indonesia, 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 June 2023.

2.4   Based on the feedback from the SEI WG members, the output of RE/7 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. Over 16 items of feedback were considered during the review which necessitated revisions.

2.5   The original guidance material and referred ACI training program were published in 2014. The last time the SEI WG reviewed the safety output for currency and validity was at APRAST/16 in March 2021 as part of the 1st round of SEI reviews. Over the past three to four years, several resource documents have been revised. For example, the second edition of the ACI Runway Safety Handbook was published in 2022. In addition, webinar recordings and new training courses are now available.

2.6   With respect to recommendations and suggestions received from the APRAST members, the SEI RE/7 output revision encompasses the following changes:

  -    updated the guidance material for ACI's Runway Safety Handbook;

  -    added the guidance material for ACI's Airfield Maintenance Handbook;

  -    added ACI webinar recordings and training courses for implementing the Global Reporting Format (GRF);

  -    updated the correct link to ACI's Runway Safety Management training course;

  -    formatted the SEI safety output in accordance with template and preamble found in the 3rd edition of the RASG-APAC Procedural Handbook; and

  -    added specific actions to be completed by the Aerodrome Operator and State Regulator for clarity.

3. **ACTION BY THE MEETING**

3.1   The Meeting is invited to:

a) Note the process and changes to the revised safety output;

b) Approve the proposed RE/7 output revision attached in this working paper as empowered by the APRAST;

c) Inform the RASG-APAC members of the SEI revision for their implementation and update the safety tools section on the ICAO APAC website; and

d) Continue to support the work of SEI WG and provide experts and champions to assist the development of future Safety Enhancement Initiatives when needed.

— — — — — — — —

International Civil Aviation Organization (ICAO)

Regional Aviation Safety Group
(Asia & Pacific Regions)

Asia Pacific Regional Aviation Safety Team

Preamble

Guidance Materials and Training Programs for Runway Pavement Maintenance and Operations from Aerodrome Operator's Perspective

Introduction

The purpose of this document is to indicate relevant industry guidance materials and training program for runway pavement maintenance and runway operations from the aerodrome operator's perspective.

Background of Safety Enhancement Initiative (SEI)

APRAST/1 held in February 2012 agreed to create an SEI coded RE7 under the category of Runway Excursion (RE) to "improve runway conditions in accordance with Annex 14."

ACI was then assigned the champion of this SEI.

At APRAST/4 held in April 2014 the title of the SEI was refined as "providing guidance material and training program for runway pavement maintenance and operations from aerodrome operator's perspective."

Applicability to States / Industry

While this SEI is primarily applicable to aerodrome operators, State regulators may find its content of useful reference too.

Stakeholder(s)	*Actions*
Aerodrome Operators	1. Review the contents of the SEI safety output. 2. Provide training (initial and/or recurrent) that reinforces runway safety management (use of the ACI guidance, webinars and training courses highly encouraged). 3. Evaluate existing procedures designed to mitigate runway safety events against recommended best practices within the SEI output. 4. Assess and revise airport policies and procedures based on the results from the evaluation of Action 3. 5. Provide feedback to the regulator as applicable.
State Regulator	1. Review the contents of the SEI safety output. 2. Adopt the applicable SEI elements into national regulation or advisory circular. 3. Socialize to the aerodrome operators. 4. Monitor the implementation of the regulation or advisory circular.

SEI Contents / Phases

Aerodrome operators are encouraged to make use of the following guidance materials, webinar recordings and training courses:

Guidance Materials

• [ACI Airfield Maintenance Handbook, 1st edition, 2023](#)

• [ACI Runway Safety Handbook, 2nd edition, 2022](#)

Webinar Recordings

• [Implementing Global Reporting Format (GRF) at airports with non-winter conditions](#)

• [GRF Implementation: practical guidance for airports in regions not affected by winter operations](#)

• [Implementing GRF at airports with winter conditions](#)

Training Courses

• [ACI/ICAO Global Reporting Format for Airport Operators (online self-learning)](#)

• [Runway Safety Management](#)

Action/Comments by RASG

This SEI was added to the RASG work program 2013/2014 at its third meeting held in June 2013 per Conclusion APRAST 3/12. The 4th meeting of RASG-APAC endorsed the safety output.

This SEI was added to the Asia Pacific Regional Aviation Safety Plan (AP-RASP) 2020-2022 as Action item A.I.7 and retained in the 2023-2025 edition of the AP-RASP. In accordance with the RASG Procedural Handbook, this SEI was reviewed for validity and currency and respective changes were approved at APRAST/16 and APRAST/22.

It is recommended that the content of this SEI be reviewed and updated annually.