



SAF11.1 — Improve Runway Safety by Preventing Runway Excursions

The rate and number of runway excursions worldwide remained steady in the last decade. Data show the industry has reduced the rate of commercial aviation runway excursion accidents, but the absolute number of accidents and incidents and their severity still indicate a very high risk.

In a study of incident and accident data dedicated to this action plan process, the International Air Transport Association (IATA) reported that between 2005 and the first half of 2019, 23 percent (283) of accidents in IATA's global accident database involved a runway excursion. This was the most frequent end state, followed by gear-up landing/gear collapse (15 percent) and ground damage (12 percent).

Runway excursion risk is a complex combination of factors involving different aviation segments. To address the risk of runway excursions an industry initiative produced the Global Action Plan for the Prevention of Runway Excursions (GAPPRE), which was published in 2021. GAPPRE was developed by an international working group led by representatives from IATA, CANSO, the U.K. Civil Aviation Authority, Gulfstream, Paris Charles de Gaulle Airport and the Royal Netherlands Aerospace Centre (NLR). The work was coordinated by Flight Safety Foundation and EUROCONTROL. GAPPRE was reviewed and validated by EASA, IATA, Civil Air Navigation Services Organisation (CANSO) and Airports Council International World.

GAPPRE contains 101 consensus based recommendations that define actions beyond regulatory compliance for regulators and ICAO, aircraft manufacturers, airports, ANSPs, aircraft operators and research organisations. Additionally, GAPPRE includes guidance and explanatory material that provides further context to the targeted audience in order to facilitate the implementation of the recommendations.

GAPPRE asks organisations to which the action plan is addressed to:

- Organise a review of the respective recommendations and assess their relevance against their local conditions and specific context.
- Consult the best practices for implementing the selected recommendations and seek support, if needed, from the GAPPRE coordinating partners.
- Conduct an appropriate impact assessment (including safety assessment) when deciding on the specific action to implement the recommendations.
- Implement the specific action/change and monitor its effectiveness.
- Share the lessons learnt with the industry.

The EASA European Plan for Aviation Safety (EPAS 2022-2026) supports GAPPRE implementation/ Within the key actions for the most important risk areas for CAT aeroplanes, EPAS defines: "Promote and implement the Global Action Plans for the Prevention of Runway Incursions (GAPPRI) and Excursions (GAPPRE), in support of Regulation (EU) 2020/2148."

-

Edition	2022
Stakeholders	Regulator / Air Navigation Service Provider / Airport Operator / Airspace Users
Type	SESAR
Scope	Local
Status	Active

Context

Related Elements



Applicability Area(s) and Timescales

Applicability Area: (Subject to local need)

Timescales	From	By	Applicable to
IOC used for Analytics functioning only - not for implementation planning	01-07-2022	-	
FOC used for Analytics functioning only - not for implementation planning	-	31-12-2030	

Links to ATM Master Plan Level 2

—

Links to SESAR Solutions

Code	Title	Program	Related Elements
No record found			

Links to PCP ATM Sub-Functionalities

Code	Title	Related Elements
No record found		

ICAO Block Modules: No associated data

References

Applicable legislation

None

Applicable ICAO Annexes and other references

None

Deployment Programme 2022

-

Operating Environments

-

Expected Performance Benefits

Safety	Significant improvement, through reduced risk of incidents and accidents on runways.
Capacity	-
Operational efficiency	-
Cost efficiency	-
Environment	-
Security	-

Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
REG01	Assess all safety recommendations from the Global Action Plan for the Prevention of Runway Excursions for their relevance against the local conditions and specific context together with the local stakeholders			
REG02	Implement the selected recommendations for regulators and monitor the Implementation of the appropriate parts of the Global Action Plan for the Prevention of Runway Excursions, selected in SAF11.1-REG01			
ASP01	Assess relevant safety recommendations from the Global Action Plan for the Prevention of Runway Excursions for their relevance against the local conditions and specific context and implement the selected recommendations			
APO01	Assess relevant safety recommendations from the Global Action Plan for the Prevention of Runway Excursions for their relevance against the local conditions and specific context and implement the selected recommendations			
USE01	Assess relevant safety recommendations from the Global Action Plan for the Prevention of Runway Excursions for their relevance against the local conditions and specific context and implement the selected recommendations			

Supporting Material

Title	Related SLoAs
EASA - European Plan for Aviation Safety 2021 – 2025, Volume III https://www.easa.europa.eu/downloads/123564/en	USE01
EUROCONTROL - GAPRE - Global Action Plan for the Prevention of Runway Excursions (GAPPRE) 05/2021 https://skybrary.aero/articles/global-action-plan-prevention-runway-excursions-gappre	APO01, ASP01, REG01, REG02, USE01

Consultation & Approval

Working Arrangement in charge	-
Outline description approved in	-
Latest objective review at expert level	-
Commitment Decision Body	Provisional Council (PC)
Objective approved/endorsed in	-
Latest change to objective approved/endorsed in	-