

SECTION I: SE OVERVIEW

Study Topic Overview Summary Following a wrong runway departure accident on August 27, 2006, in Lexington, Kentucky, ASIAS initiated a study to gather wrong runway event reports from several databases and found 117 reports of attempted or actual wrong runway takeoffs involving airplanes operating under 14 CFR part 121 between 1981 and 2006. A panel from CAST member organizations reviewed the reports to identify common factors and proposed mitigations. After the CAST panel eliminated duplicate reports and reports without sufficient information to determine contributing factors, 80 reports remained. The panel review identified several contributing factors, including crew resource management (CRM) deficiencies, airport geometry/complexity issues, human factors issues, and communications deficiencies. CAST adopted seven SEs as a result of the study, five of which were directed at airports and air traffic control.

SE Objective The purpose of this SE is to ensure training for controllers to gain knowledge of precursors to wrong runway departures events. Aviation safety will be improved by providing scenario-based training for controllers highlighting the contributing factors that have led to wrong runway departures. The training would focus on operations in complex airports, airport geometry, communications, taxi/departure clearances, understanding and managing fatigue and time pressures, Taxi Into Position and Hold (TIPH), and situational awareness as described in the Wrong Runway Departures report.

Primary Risks Mitigated Runway Excursion (RE), Runway Incursion (RI), Loss of Control-Inflight (LOC-I), Navigation Errors (NAV)

Action	Organization(s)	Strategy	Description	Due Date
Action 1	FAA AAT	Training	Develop and administer a training program for tower controllers that emphasizes contributing factors that have led to wrong runway departures and effective mitigation strategies.	N/A

Comments: CAST closed this action.

See section II of this SE for detailed action descriptions.

References: The detailed analysis in the Wrong Runway Departures Final Report (August 2007) is available through CAST.

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SE 180 consists of one action, which this section lays out in detail.

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Develop/administer training program for tower controllers

SECTION III: SUPPLEMENTAL INFORMATION

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This section contains the following additional information that may be of interest to implementers:

- Source Study
- Related Initiatives
- Total Cost / Resource Overview

SECTION IV: REVISION LOG

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This section provides a history of revisions to this SE.

SECTION II: DETAILED ACTION INFORMATION

Action 1: Develop/administer training program for tower controllers

Primary
Implementer

FAA AAT

Action Objective

All tower controllers will complete training that emphasizes contributing factors that have led to wrong runway departures and effective mitigation strategies that may be used by controllers.

Action Timeline

Flow Time: 36 months

Due Date: N/A

Timeline/Flow for
Future Adopters

TBD

CAST Lead

FAA AAT-1

#	Organization(s)	Detailed Steps
1a	FAA AAT	Develop a training program. <i>Complete.</i>
1b	FAA AAT	Administer course to all tower controllers. <i>Complete.</i>

Notes

SECTION III: SUPPLEMENTAL INFORMATION

Source Study Wrong Runway Departures Final Report (August 2007)

Related Initiatives N/A

Total Cost \$500,000

Action 1

	Organization	Resources Needed
<i>Direct Resource Overview – Government</i>	N/A	N/A

	Organization	Resources Needed
<i>Direct Resource Overview – Industry</i>	N/A	N/A

Indirect Resource Overview The organizations identified in this section are not expected to incur direct costs associated with implementing this SE, but they may incur indirect costs within their normal line of work.

	Organization	Description
	N/A	N/A

SECTION IV: REVISION LOG

Major revisions (whole numbers) represent CAST-approved changes to SE language. Minor revisions (decimals) represent minor changes to target dates or completion notes that do not affect implementer actions.

Revision	Date	Description
1.0	09/17/2018	New SE format. Content reorganized and terminology updated. No substantive changes.
Original	10/04/2007	CAST adopted SE 180.