

# Takeoff and Landing Performance Assessment (TALPA)

Presented to: **TALPA Update Meeting**

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**Federal Aviation  
Administration**

# TALPA Concepts are to Standardize:

- Methods for assessing runway conditions
- Reporting of braking action by pilots
- Reporting of runway conditions through airport operators, the NOTAM system, and ATC agencies
- Airplane performance data
- Before landing performance assessments
- Terms used in runway condition reports and performance data



# Background: TALPA ARC Participants

## Regulatory Authorities

- FAA (Airports, Flight Standards, Certification, NOTAMS, Rulemaking, Legal)
- Transport Canada
- Brazilian Certification Authority
- EASA (Limited Participation)



## Other Organizations

- Air Transport Association
- Airline Pilots Association
- Airports Council International
- Allied Pilots Association
- American Association of Airport Execs
- National Air Carrier Association
- National Business Aviation Association
- National Transportation Safety Board
- Neubert Aero Corporation
- Regional Airline Association
- Southwest Airlines Pilot Association



## Airplane Operators

### Part 121

- ABX Air
- Alaska
- American Eagle
- American
- Continental
- Delta
- Express Jet
- Federal Express
- Northwest
- Pinnacle
- Southwest
- United
- UPS
- US Airways



## Airports

- Cherry Capital
- Chicago Airport System
- Chicago O'Hare
- Grand Rapids Regional
- Minneapolis/St. Paul Airport System



## Airplane Operators

### Part 91-K/125/135

- Alpha Flying, Inc
- Bombardier Flexjet
- Chantilly Air
- Flight Works
- Jet Solutions
- Conoco Phillips Alaska
- Net Jets
- Pogo Jet, Inc



## Airplane Manufacturers

- Airbus
- Boeing
- Bombardier
- Cessna
- Eclipse
- Embraer
- Gulfstream
- Hawker



# Background

- **TALPA ARC First Meeting – March 2008**
- **Separate workgroups established to address:**
  - Airports
  - Part 121 Aircraft Operations
  - Part 91-K/125/135 Aircraft Operations
  - Part 23/25 Aircraft Type Certification



# NTSB TALPA Recommendations

**Safety Recommendation A-07-063** - Establish a minimum standard for 14 Code of Federal Regulations Part 121 and 135 operators to use in correlating an airplane's braking ability to braking action reports and runway contaminant type and depth reports for runway surface conditions worse than bare and dry.

**Safety Recommendation A-08-041** - As part of the Takeoff/Landing Performance Assessment Aviation Rulemaking Committee, address the need for initial training on the rationale for and criticality of conducting landing distance assessments before landing on contaminated runways.

**Safety Recommendation A-07-062** - Develop and issue formal guidance regarding standards and guidelines for the development, delivery, and interpretation of runway surface condition reports. (RCAM)



# CAST SE 215 OPs 1 and 7

- **AFS develops guidance for TALPA**
  - AC 91-79B, Mitigating the Risks of a Runway Overrun Upon Landing
    - Guidance for operators of non-turbojet airplanes
    - Internal revision complete; publication imminent
  - SAFO TALPA Trng
    - Guidance to operators on TALPA related documents
- **Air carriers implement TALPA (landing assessment at time of arrival)**
  - Voluntary participation: October 1, 2016



# CAST SE 215 – OPs 3 & 6 - AIR

- **AIR develops guidance for TALPA**
  - (AC 25-31 and AC 25-32 issued. Output complete.)
- **Manufacturers provide landing distance data per AC 25-31 and AC 25-32**
  - Manufacturer provided TALPA data described in ACs 25-31 and 25-32 is in the process of voluntarily being developed.
  - There is no timeline. TALPA is voluntary; operators and manufacturers are not required to comply.



# CAST SE 215 – OPs 2 and 5

- **ARP revises guidance to incorporate TALPA**
  - AC 150/5200-30D—Airport Field Condition Assessments and Winter Operations Safety
    - Scheduled Jul 2016 release or earlier
  - AC 150/5200-28F—Notices to Airmen (NOTAMs) for Airport Operators
    - Scheduled Jul 2016 or later to synch with NOTAM Order 7930.2 release
  - Training product for the airport operator/stakeholders
    - Scheduled May 2016 release
- Airport operators report runway conditions per the updated guidance and TALPA terminology
  - Effective October 1, 2016



# Going forward...

**The implementation of TALPA was a huge success for Aviation Industry. We will look at lessons learned from the first year and apply those lessons going forward.**

**CAST, NTSB & ICAO are watching TALPA with great interest.**

**Thank you for supporting this important effort!**

