

Airports Runway Incursion Mitigation (RIM) Program

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Background - PTG History

- **What are Runway Incursions?**
 - ICAO Definition: “Any occurrence at an aerodrome involving the incorrect presence of an aircraft vehicle or person on the protected area of a surface designated for the landing and take off of aircraft”
- **What is PTG?**
 - Problematic Taxiway Geometry
 - GeoCodes
 - 19 Taxiway Elements
 - AC 150/5300-13A



Background - PTG History

Geocodes:

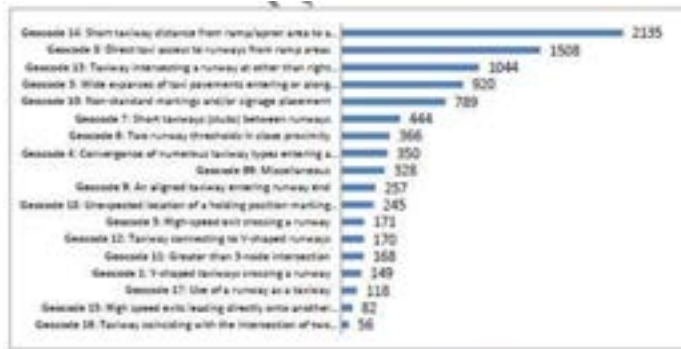


Figure 25. Runway Incursions Associated With Each Problematic Geometry Type (All Categories)



Background - PTG History

Examples of PTG:



Background - PTG History

- **6,855 Geopoints (locations) – Yellow Dots**
 - 2,306 points (more than 33%) associated with at least 1 RI



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5

Background - PTG History

- **7,552 Runway Incursions Events Geo-referenced**
 - Data mining effort collected 8+ years (2007-2015) of RI data from towered airports.
 - V/PDs and PDs



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6

Runway Incursion Mitigation (RIM)

Locations Determined by:

- 3 or more RI in a CY
- Avg 1 or more RI per year over study period
- Field validation of locations, RIs, and geometry



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7

Runway Incursion Mitigation (RIM)

Hot Spots vs. RIM locations

- Hot Spots
 - RSAT
 - RSO
- RIM
 - RI data
 - Field validation



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8

RIM FAA Roles/Responsibilities

- Collect/Analyze Data
- Validate PTG locations
 - Coord. w/ airport sponsors
- Support Airport Sponsors
 - Assist in mitigation development
 - Financial assistance
- Coordinate with FAA LsOB
 - Procedures?
- Facilitate mitigation implementation



Airport Sponsor Roles/Responsibilities

- Grant Assurances
- Mitigation Development
 - Coordinate with local stakeholders
 - Engage FAA LsOB as necessary
- Mitigation Strategies
 - Capital Improvements
 - Non-Capital Improvements
 - Operational
 - Education
 - Other, technology
- ALP updates, etc.



Current Status

- **RIM Data Management (RDM) Tool**

- Released December, 2016
- Allows Sponsors, SBGP to view FAA RIM information



Successes

- **Chicago Midway International, MDW-03**

- 3 RIs in 2012, 5 total

- **FY 2016 Mitigated**

- Installed in-pavement RGLs
- Cont'd monitoring



Successes

- **Dallas Love Field, DAL-HS1**
 - 24 RIs in 2013/14
- **FY 2016 Project**
 - Planning Effort
 - Construction, 2017

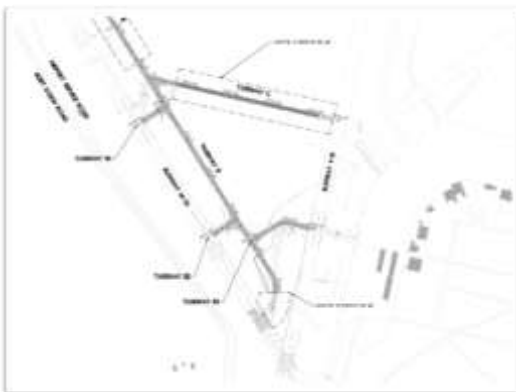


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Successes

- **Waco Regional, ACT-HS1**
 - 3 RIs in 2015



•FY 2016 Mitigated

- Realigned taxiways
- Cont'd monitoring



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FAA Site Visits

- **HQ FAA Personnel Making ARP Regional Visits**

- ASW – DAL & ADS visited
- ANM – SEA visited
- ANE – MHT & BOS visited
- ASO – PDK & ATL visited
- AAL - scheduled
- AGL - scheduled
- ACE - scheduled
- AEA – tent.
- AWP



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Questions?

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18