Runway Safety Action Team (RSAT)

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Airport Manager
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Federal Aviation
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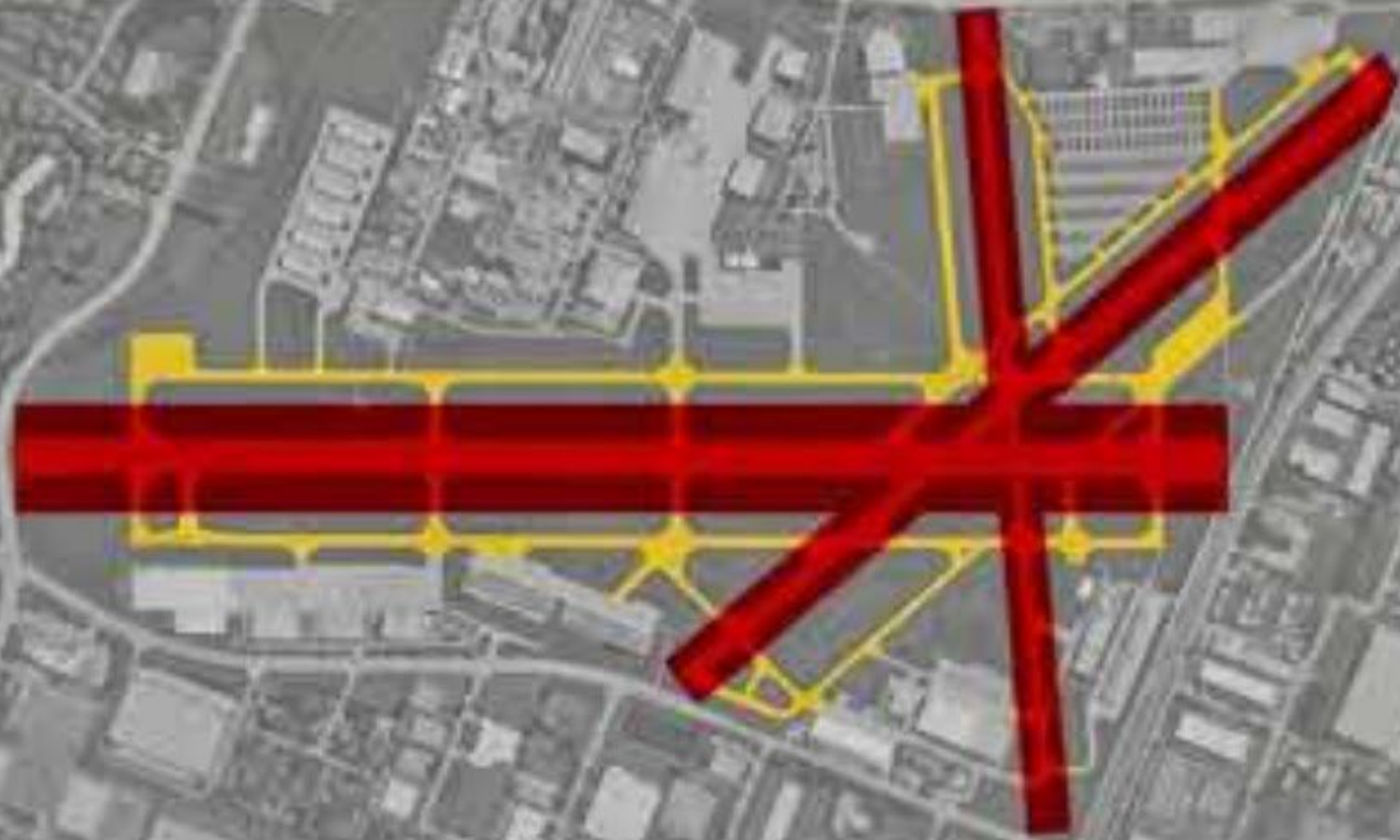# **Open Discussion** Safety Forum

PURPOSE

- Identify Surface risks

- Discuss mitigations

- Create Action Items

- Runway Safety Action Plan (RSAP) update

SCOPE

- The Runway Environment

- Movement Area

- Protected Area

- Non-Movement Area

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Airfield Operating Areas

What did you learn from the video?

LET'S REVIEW

operational safety at *DESTIN EXECUTIVE* **airport...**

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# Know Your Local Protected Areas

DTS RUNWAY SAFETY AREA (RSA)

- What operations are allowed in the RSA during aircraft operations?   YES (LOA)

- Are vehicle drivers briefed on specific RSA exemptions?   YES

- Are there any hold lines outside the 250' RSA?   YES

Runway 14/32
- RSA width 150'
- RSA length 5600'

25' off the edge runway

ALL HOLD SHORT LINES ARE OUTSIDE THE RSA

150' WIDE
300' OFF END

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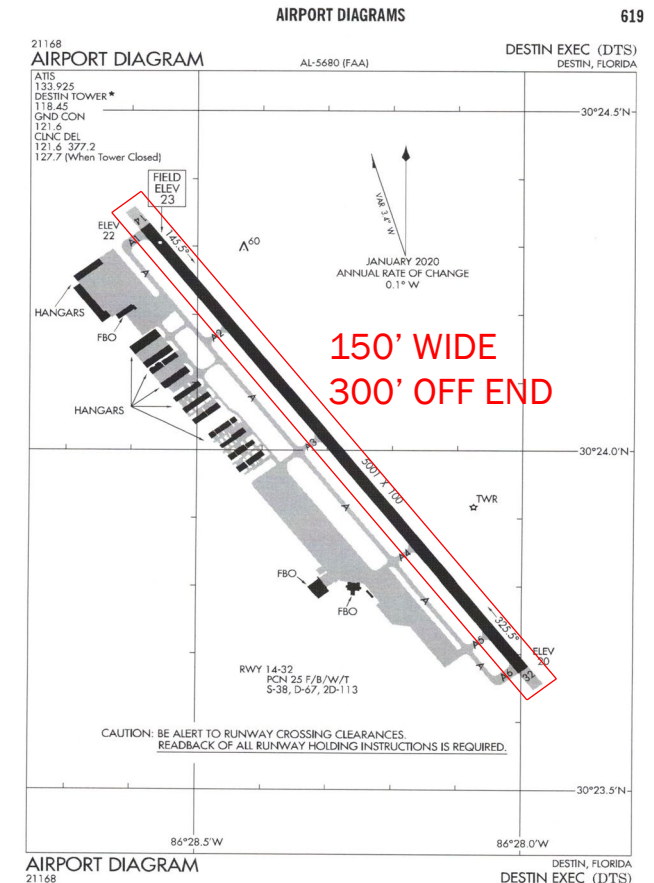
Letters of Agreement Surface Operations

| Do we need to update the RSA LOA?	Are any updates needed for other surface related LOAs (movement, non-movement, runway closure/opening, etc.)?	NOT AT THIS TIME

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Airport Diagram & Hot Spots

Airport Diagram Is it accurate? YES

Hot Spots are locations on aerodrome movement areas with a history or potential risk of collision or RI, where heightened attention by pilots & drivers is necessary.

Hot Spot Review Read each description. Are they still pertinent? NONE AT DTS

https://www.faa.gov/airports/runway_safety/diagrams/

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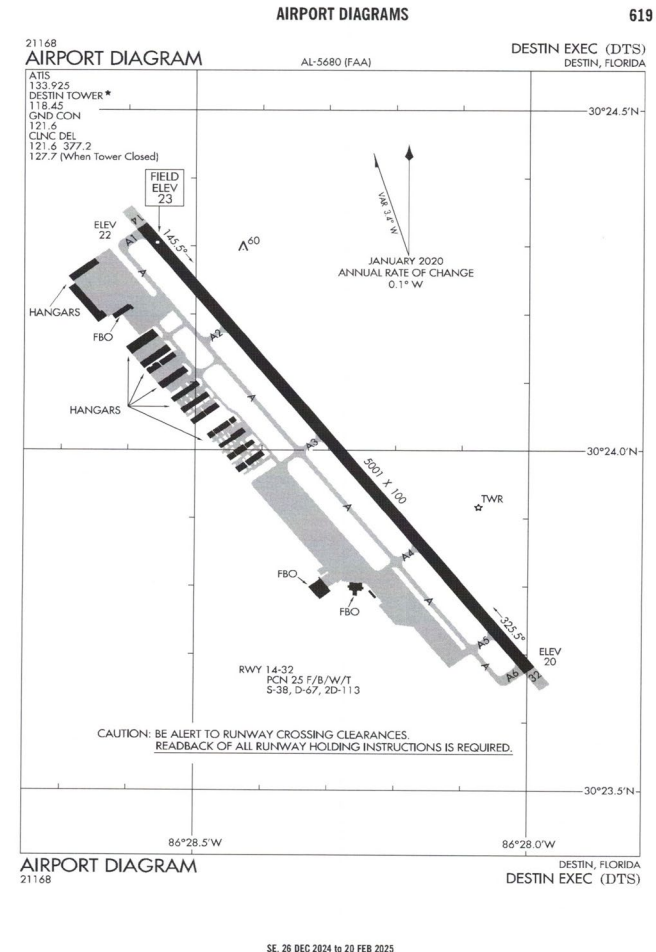
Runway Incursion (RI) & Surface Incident (SI)

CLASSIFICATIONS are based on these attributed actions:
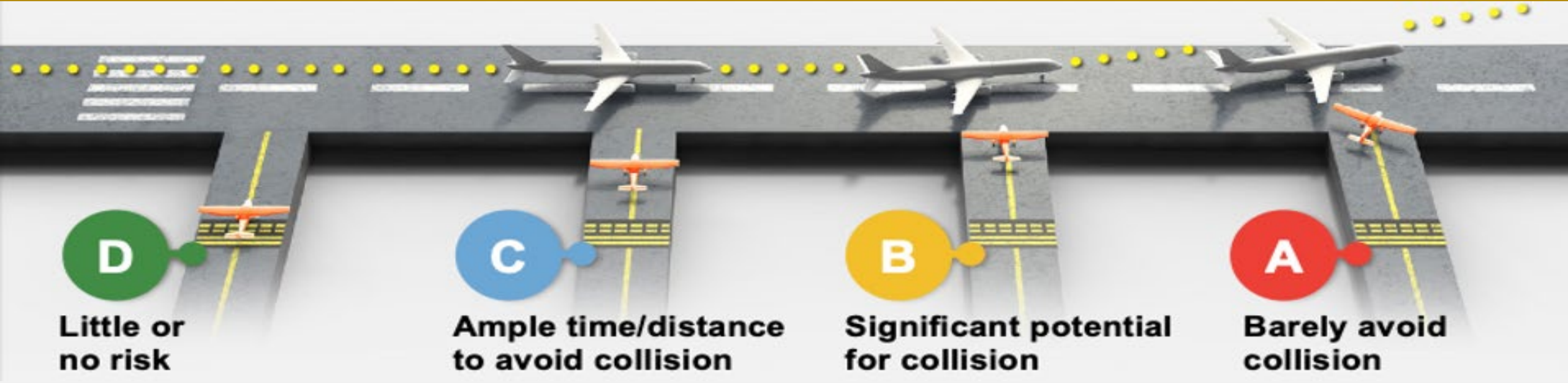
Pilot Deviations (PD) are attributed to pilots operating an aircraft under its own power

Operational Incidents (OI) are attributed to Air Traffic Control action or inaction

Vehicle or Pedestrian Deviations (V/PD) are attributed to a vehicle driver or non-pilot operating an aircraft under its own power, a vehicle driver towing an aircraft, or a pedestrian

Others (OTH) are events not clearly attributed as determined above. This can include events caused by equipment failure or other factors

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Runway Incursion (RI) Severity Categories

D Little or no risk

C Ample time/distance to avoid collision

B Significant potential for collision

A Barely avoid collision

Things to think about as we review our runway incursion data:

Are the local numbers going up or down?	Is there a change in any of the severity categories?

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Local Surface Event Review

RUNWAY INCURSIONS (RI)

Are the local numbers going up or down?

NONE FOR THE YEAR
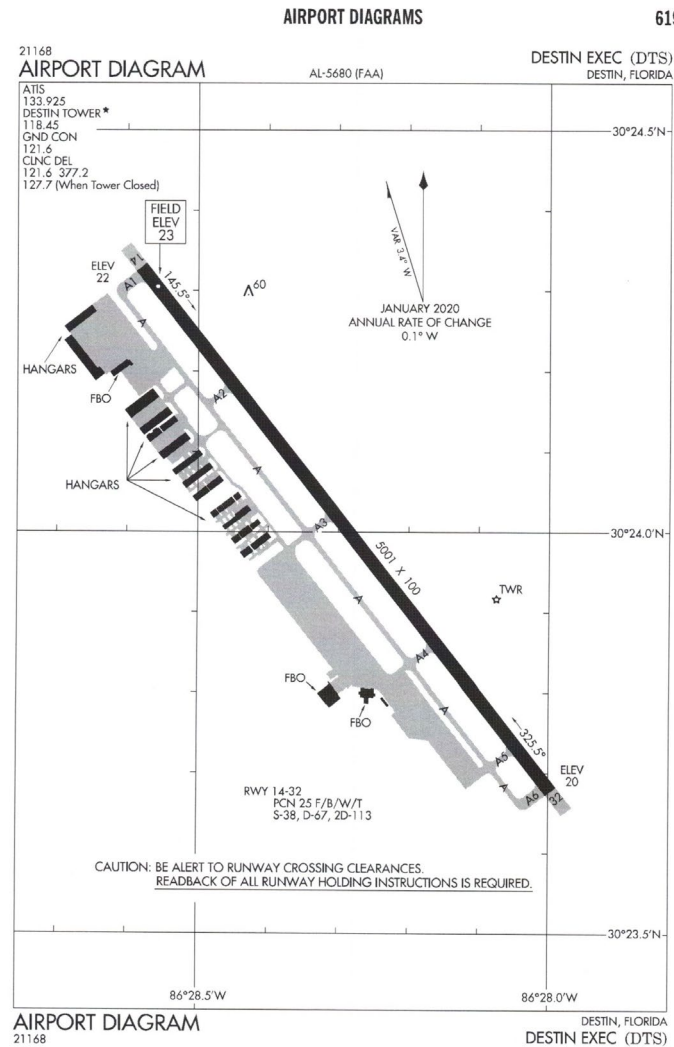
Group Discussion: What can be learned from this event?

Local Runway Incursions By the Numbers

Previous RSAT	This RSAT
127,531 Total Operations	**121,945 Total Operations**
2 Runway Incursions	**0 Runway Incursions**
2 Pilot Deviations	**2 Pilot Deviations**
9 Operational Incidents	**7 Operational Incidents**
2 Vehicle/Pedestrian Deviations	**0 Vehicle/Pedestrian Deviations**
0 Other	**2 Other**

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RI Severity Category Discussion

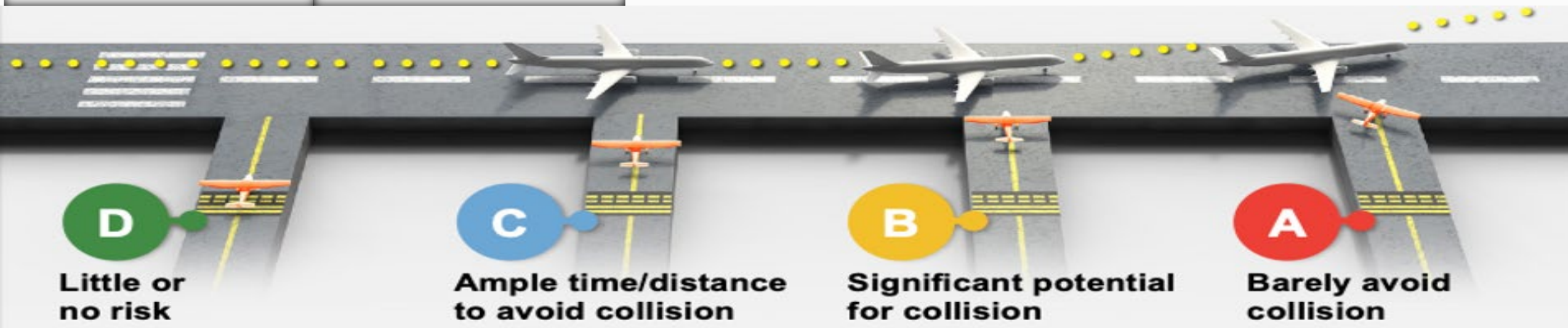| Previous RSAT		This RSAT	
CAT A	0	CAT A	0
CAT B	0	CAT B	0
CAT C	0	CAT C	0
CAT D	2	CAT D	0

- Was there a noticeable change in incursions or their severity? *YES*

- What could have contributed to the change?
  AWARENESS, ATTENTION, TRAINING

D Little or no risk

C Ample time/distance to avoid collision

B Significant potential for collision

A Barely avoid collision

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Runway Incursions

OF THE
56.3M
take-offs & landings occurred in the NAS

1,757
were Runway Incursions

62% PD (Pilot)

18% OI (Controller)

17% VPD (Vehicle/pedestrian)

3% OTH (Other)
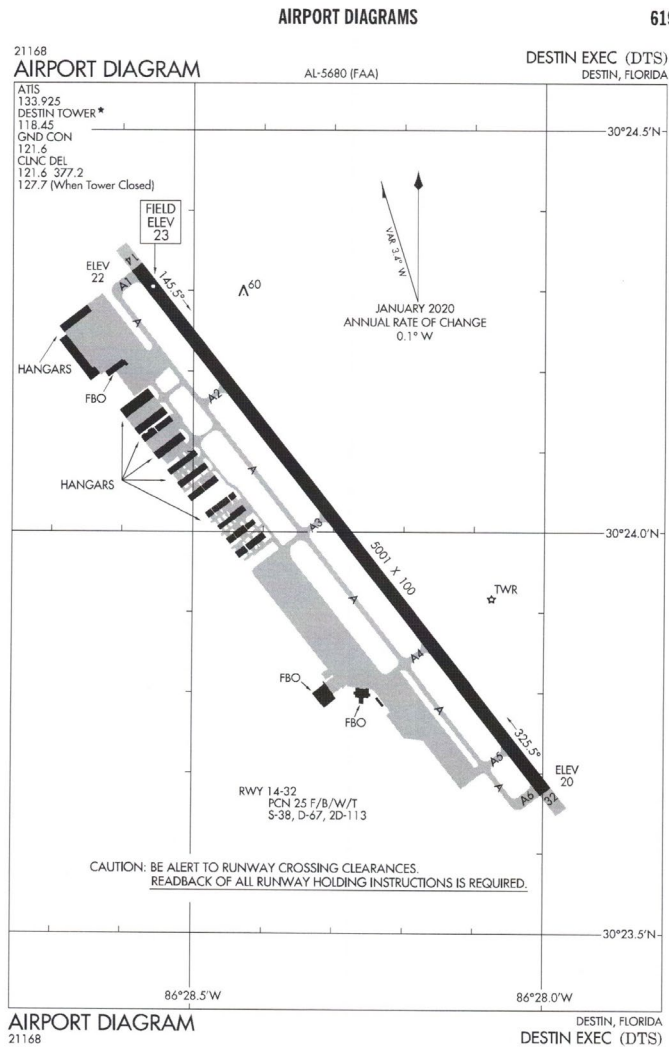
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Local Surface Event Review
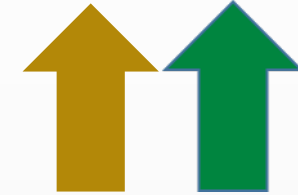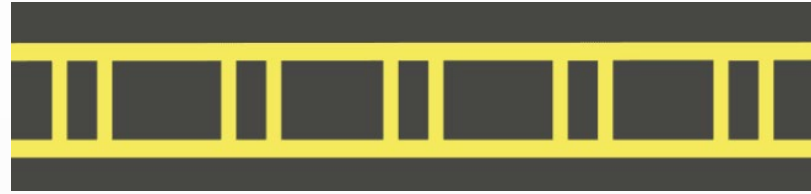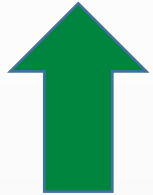

SURFACE INCIDENTS (SI)

NO UNAUTORIZED SURFACE INSIDENTS

GOOD REDUCTION IN EVENTS

Group Discussion: What can be learned from this event?

Safety Knowledge Point

When instructed to "exit the runway" by ATC, what markings do you seek to cross to ensure you are safely clear of
"**the runway environment**?"

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Local Runway Excursions (RE)

A veer off or overrun from the runway surface during take-off or landing. Contributing factors may include:

- Unstable Approaches
- Cross Wind Component
- Tailwind
- Mechanical
- Runway Conditions

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LOCAL SURFACE EVENT REVIEW

SURFACE INCIDENTS (RE)

DTS-M-2024/02/03-0001

Date of Incident: 2/3/24
RI/SI/RE: RE
Severity: N/A
Surface Event Code: OTH
Day/Night: Day
IMC/VMC: VMC
FAR Part: 91
Narrative: Aircraft 1 excursed Runway 14. Aircraft 1/C172 conducting pattern work, landed on Runway 14 and veered off the east side of RWY between A2 and A3. Aircraft 1 was able to taxi to the ramp without assistance.

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LOCAL SURFACE EVENT REVIEW

SURFACE INCIDENTS (RE)

DTS-M-2024/06/27-0001

Date of Incident: 5/27/24
RI/SI/RE: RE
Severity: N/A
Surface Event Code: OTH
Day/Night: Day
IMC/VMC: VMC
FAR Part: 91
Narrative: Aircraft 1 excursed Runway 14. Aircraft 1/C400 landed RWY 14 and rolled off the West side of the RWY prior to A4 abeam the FBO and reported a blown tire.

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LOCAL SURFACE EVENT REVIEW

SURFACE INCIDENTS (OTH)

DTS-M-2024/09/01-001

Date of Incident: 9/1/24
RI/SI/RE: OTH
Severity: N/A
Surface Event Code: OTH
Day/Night: Day
IMC/VMC: VMC
FAR Part: 91
Narrative: Aircraft 1 excursed Taxiway A. Aircraft 1/M-22 (LSPT) was taxing to RWY 14 from A5 and exited the TWY prior to A4 on the West side. Aircraft 1 needed assistance to reenter the TWY and was towed to the ramp..

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LOCAL SURFACE EVENT REVIEW

SURFACE INCIDENTS (RE)

DTS-M-2024-12/07-0001

Date of Incident: 12/7/24
RI/SI/RE: RE
Severity: N/A
Surface Event Code: OTH
Day/Night: Day
IMC/VMC: VMC
FAR Part: 91
Narrative: Aircraft 1 excursed Runway 32. Aircraft 1/P28A conducting pattern work, landed on Runway 32 and veered off the west side of RWY between A5 and A4. Aircraft 1 taxied back on the runway and to the ramp without assistance.

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Safety Knowledge Point

You have touched down on the runway,
but leave the runway unintentionally.

What should you do?

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Wrong Surface Events (WSE)

These involve landing on or taking off from a taxiway, wrong runway, or landing at a wrong airport. Risk factors include:

Parallel runways, particular offset thresholds, or irregular spacing	Closely aligned runway ends	Parallel taxiways	Close airports with similar configurations

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LOCAL SURFACE EVENT REVIEW

WRONG SURFACE EVENTS(WSE)

DTS-M-2024-03/14-0002

Date of Incident: 03/14/24
RI/SI/RE: OTH
Severity: N/A
Surface Event Code: PD
Day/Night: Day
IMC/VMC: VMC
FAR Part: 91
Narrative: Aircraft 1 entered VPS (Eglin AFB) Class D airspace and was attempting to enter the pattern at VPS instead of DTS. Pilot confused airports. A/C conflicted with a departing flight of 4/F15's off RWY 20.

LOCAL SURFACE EVENT REVIEW

WRONG SURFACE EVENTS(WSE)

DTS-M-2024-05/30-0001

Date of Incident: 5/30/24
RI/SI/RE: OTH
Severity: N/A
Surface Event Code: PD
Day/Night: Day
IMC/VMC: MVFR
FAR Part: 91
Narrative: Aircraft 1, C337, landed at Eglin AFB. A/C was on RNAV Approach to RWY 14 at DTS. A/C broke out of the clouds, saw the RWY and made the approach and landed RWY 12. PILOT AND HIS WIFE WERE HANDCUFFED ON THE TAXIWAY.

Wrong Surface Events (WSE)

DISCUSSION

What can cause a pilot to line up to the wrong surface or airport?	Does our airport geometry contribute to Wrong Surface Events?
The Wrong Surface Events commonly corrected by ATC at this airport are…	Have we seen an increase or decrease in Wrong Surface Events?

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Safety Knowledge Point

You are holding short at Runway 7L at intersection
R awaiting departure clearance.

- Which direction will you turn to depart?
- How can you be sure?

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Arrival Alert Notice (AAN)

We do not have any AAN's for Destin. Do you think any are needed?

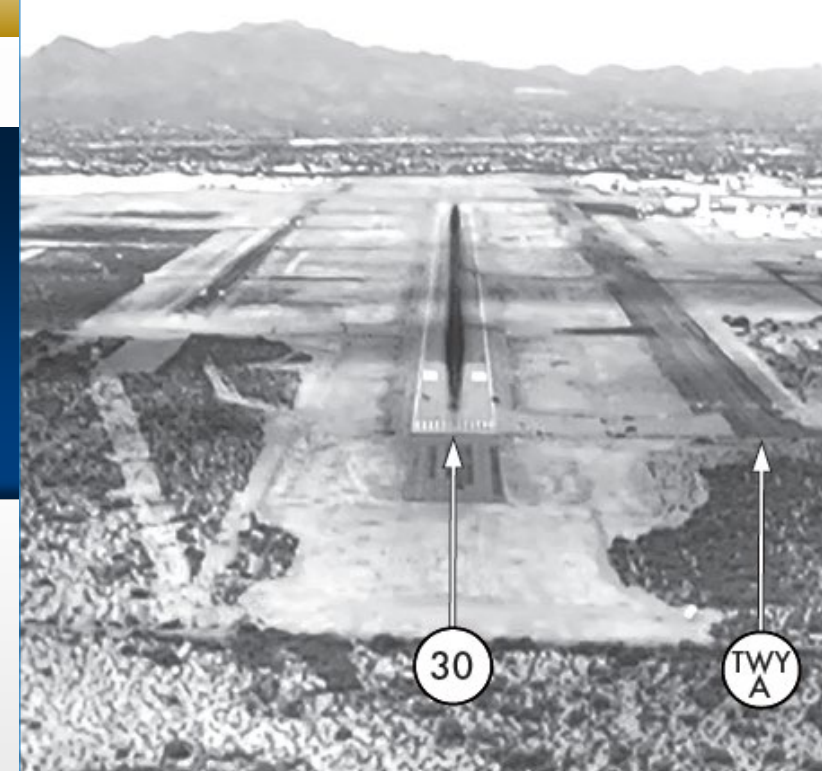|			
???	???	???	???

TUCSON INTL (TUS) ARRIVAL ALERT

**Landing Northwest
RWY 30 and TWY A**

30   TWY A

Pilots sometimes confuse TWY A for RWY 30.
Be aware that the former south parallel runway,
RWY 29L, is closed for reconstruction.

**Not for Navigational Purposes
For Situational Awareness Only**

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Airport Construction Best Practices

Coordinate construction plans early among the Airport Operator, ATCT and Airport Construction Advisory Council (ACAC).

Set up an after-action review to determine what worked and what did not.

Use resources & checklists found on the Runway Safety Webpage under the Runway Construction Section.

PILOT engagement for improving runway safety during construction.

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Local Current & Planned Construction

- A brief overview of any construction projects planned for the upcoming year.
- What are the expected risks/impacts of each project?
- Pilot suggestions for improving runway safety?
- Slide building notes that can be removed as you prepare these slides...

No Runway or
Taxiway Construction
in near future

Airport Operations
will discuss
upcoming projects

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Local Area Wildlife Hazards

The following are wildlife hazards specific to this airport:

Are specific control instructions issued to wildlife mitigation vehicles in accordance with the 7110.65? Do we have an LOA for wildlife mitigation?	Waterfowl Small Birds Owls Eagles Ospreys	Coyotes Turtles Pelicans Seagulls

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Training & Operations Airfield Drivers

Review of driver policies, procedures, and training.

Who can access the airfield?	What training is conducted for various airfield users, i.e. police/ security, fire fighters/ emergency responders, wildlife agents?	Do we have vehicle equipment that offers improved situational awareness (such as a runway incursion warning system)?	Any feedback on vehicle operations (good or bad) in the movement areas?

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Local Area Weather

Discuss weather conditions that affect safety on your airfield.

Is sun glare a safety factor?

How is cumulating snow/ ice addressed to minimize sign/ marking obscurity?

Do you utilize Take-Off and Landing Performance Assessment (TALPA) practices at your facility?

Is there difficulty identifying markings and/or signage in rainy/snowy/nighttime conditions?

Are there areas where ponding/ standing water impacts surface safety?

- Thunderstorms
- Fog
- Hurricanes
- Snow/ice
- Low ceilings
- Airfield visibility from the tower
- Emergency preparedness

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Local Upcoming Special Events

The following are events scheduled at this airport:

No Airshows	No Fly-in's planned	Tourist Season starts at the end of March (Spring Break)

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Local Surface Safety Issues Reported

Enter reported safety issues from local pilots, tenants, stakeholders, Pilot-Controller Forums, etc. for discussion

Any known areas of non-visibility in movement areas from the tower? NONE	Any known areas of intermittent communication/ technology frequency interruption? HANGER AREA/NORTH RAMP	FAASTeam/FSDO, do you have any issues to report (PD reports, etc.)?

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Local Runway Safety Best Practices

PILOTS-CONTROLLERS-VEHICLES

PRIOR COMMUNICATION BEFORE RSA OPERATIONS	**AIRFIELD TRAINING**
MEMORY AIDS IN THE TOWER	**PILOT/CONTROLLER MEETINGS AND THE ANNUAL RSAT**

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Local Coordination Efforts Meetings

How often do Airport Operations and Air Traffic meet?	When was our last pilot/controller forum with the local users and FAASTeam Rep (JO 7210.3 4-2-2)?	When is our next pilot/controller forum meeting?	Are we meeting early and often to discuss construction projects?	Are we using Operation Rain Check/tower tours (JO 7210.3 4-2-2)?
ALMOST DAILY WITH A MONTHLY ZOOM MEETING	2/28/2024	???	YES	ENCOURAGED

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Open Action Items

Assigned Action Item Code: No open items
Action Item Description:
Status:
Completion Date:

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Action Items Purpose & Suitable Topics

PURPOSE	Resolve or mitigate an airport specific concern, issue, or risk, linked to runway safety.
SUITABLE TOPICS	• They could include potential hot spots, procedures, geometry, new technology, markings and signage, training, security, etc. • They should not include projects already underway, upgrades to a terminal, FBO, or hanger, or any ongoing or continuous process, etc.

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Action Items Components

COMPOSITION & ACCEPTANCE

COMPOSITION	- It must be clear. - It must be reasonable and achievable. - It must have a clear and detailed rational.
ACCEPTANCE	- It must be accepted by the organization responsible for accomplishing the action. - It may be documented as a recommendation if consensus is not reached, or action office does not accept.

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Action Item Example

FOR EXAMPLE

EXAMPLE

Action Item Description: The Airport will study the feasibility of installing an inbound ramp-destination sign by the intersection of Taxiway Hotel Five to help guide pilots towards the ramp.

Action Item Rationale: Aircraft exiting on Taxiway Hotel northbound from Hotel Five towards the ramp have made a wrong turn and crossed the intersecting runway.

Estimated Completion Date: ???????

POC Organization: Airport Authority

POC name: xxxxx xxxxxxxx

POC phone: xxx.xxx.xxxx

POC email: xxxxxx.xxxx@xxx.xxx

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Runway Safety Resources

AIRPORT DIAGRAMS

Search and get access to hundreds of airport diagrams by identifier, state, or airport name.

▶ Search Airport Diagrams

AIRPORT USERS

Check out surface safety tips for pilots, airfield drivers, controllers, or airport managers.

▶ Airfield Drivers
▶ Controllers
▶ Pilots
▶ Runway Construction

PLANS & GUIDANCE

Review numerous Runway Safety documents to help you better understand our goals and stay safe.

▶ Runway Safety Plans
▶ Runway Safety Publications

EXTERNAL RESOURCES

Search for surface safety events & training in your area or review and submit incident reports.

▶ FAAST Events
▶ Aviation Safety Reporting System (ASRS)

https://www.faa.gov/airports/runway_safety

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Safety Resources

To use this visualization
Select a State, City, Airport Name (ID) or Safety Product from the respective drop down to filter your search OR begin typing to search in the appropriate field.
For example, type the 3 letter airport identifier in the Airport ID field.
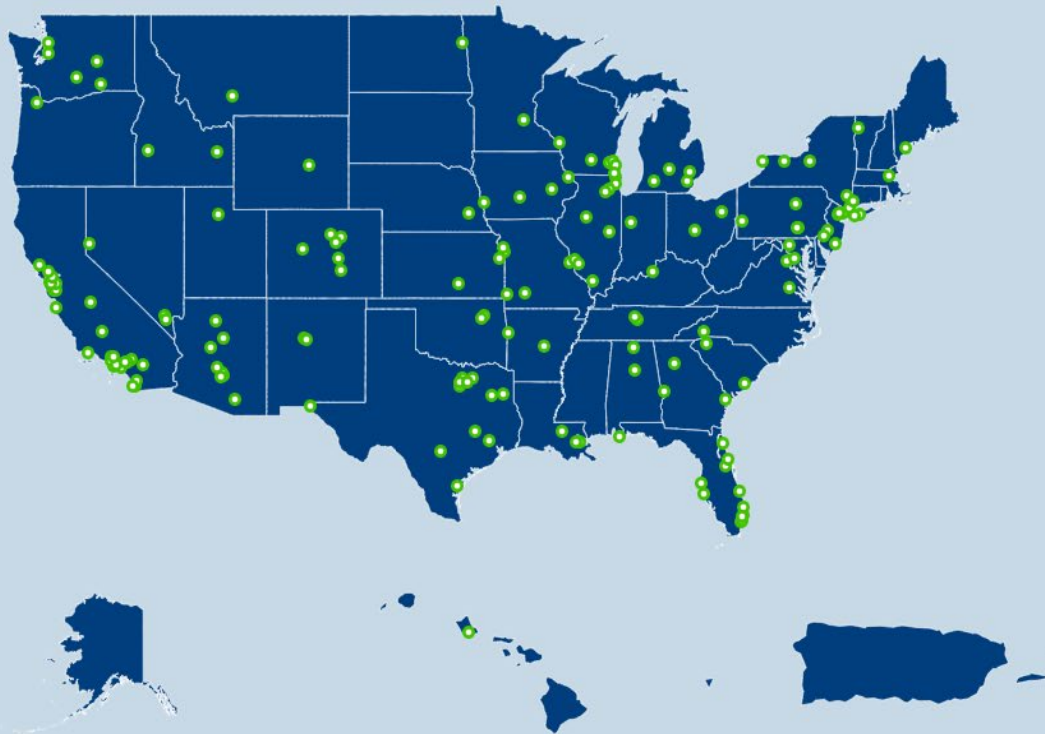
Filters

State
(All)

City
(All)

Airport Name (ID)
(All)

Safety Product
(All)

Click to Reset Filters

Over 125 *From the Flight Deck* Videos Available

Search for **Safety Products**

using the

3-letter ID at:

www.faa.gov/XXX

or

www.faa.gov/flight_deck

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Closing Anything We Missed?

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QR Codes

FAA RUNWAY SAFETY

FAA   YouTube
From the Flight Deck

Runway Safety Home Page

Pilot Simulator
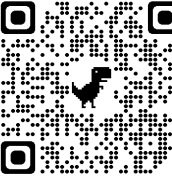
AIRFIELD OPERATIONS

Airfield Operating Surfaces Video

Airfield Driver Situational Awareness

Airfield Driver Phraseology

Airfield Driver Winter Operations

AIRFIELD CONSTRUCTION

NOTAMS

Checklist

CND

ACAC Mailbox

FAA WEBSITES/LINKS

Airport Diagram

AAN

EMAS/RIM

FAST

Hot Spot Description

ARP SMS

ATO SMS

Federal Aviation Administration

Thank You

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