

Airport Emergency Management and Preparedness

Aviation Safety Campaign
Miami, FL
July 7 - 8, 2022

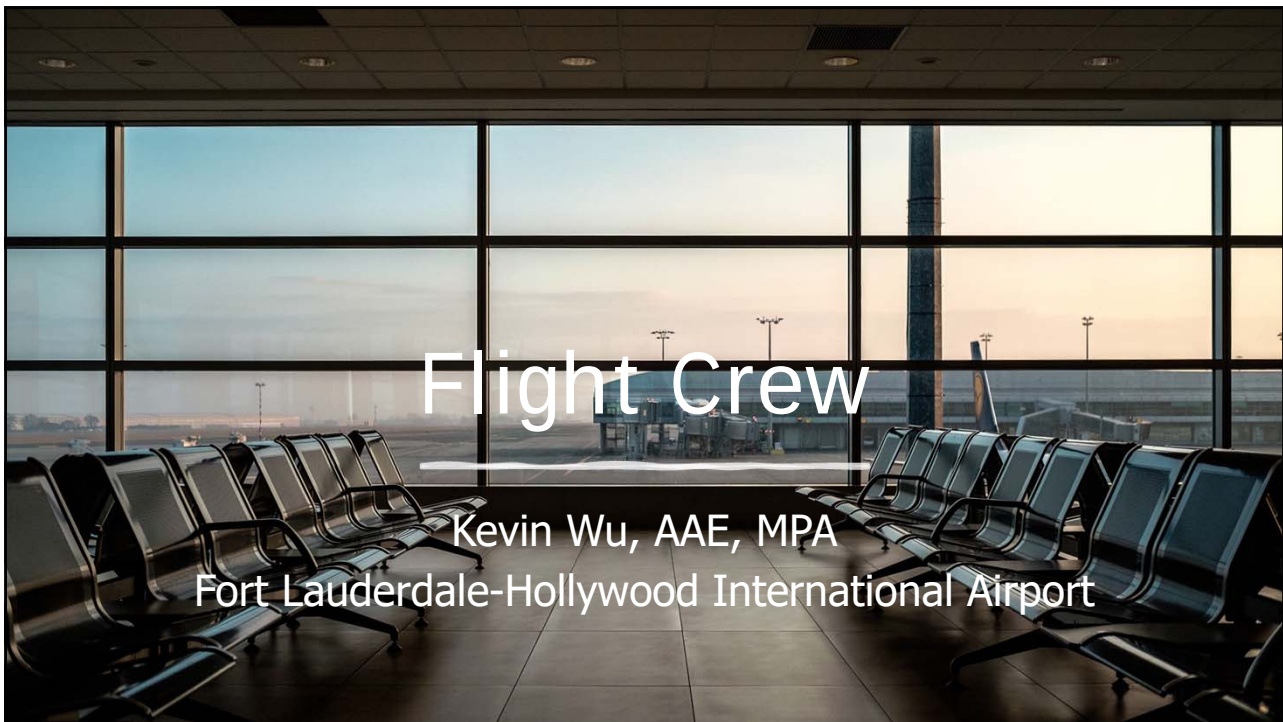


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≡	Introduction
≡	Airport Emergency Management Overview
✓	The Importance of Emergency Preparedness in Aviation Industry
≡	Emergency Preparedness
✓	Airport Programs and Partner Agencies
✓	Technology Implementations
✓	FLL Hurricane Preparations
≡	Collaborative Emergency Preparedness Approach

Boarding Sequence

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Kevin

Kevin Wu

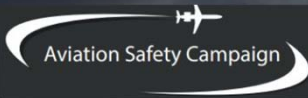
- 20+ Years of Airport Ops Experience from Three International Airports
 - ✓ Airport Duty Manager
 - ✓ Parking Operations Manager
 - ✓ Airside Operations Manager
 - ✓ Emergency Manager
- Airport EOC Incident Commander for FedEx #FDX 910 Crash in 2016
- Broward Emergency Response Team, ESF1 - Airport Unit Leader Since 2014
 - ✓ 2015 Dynamic Airways #DYA 405 Engine Fire Prior to Take-off
 - ✓ 2017 Airport Shooting Tragedy
 - ✓ 2018 Hurricane Irma



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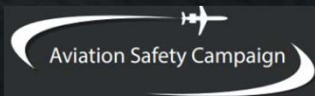
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Aviation Industry at a Glance

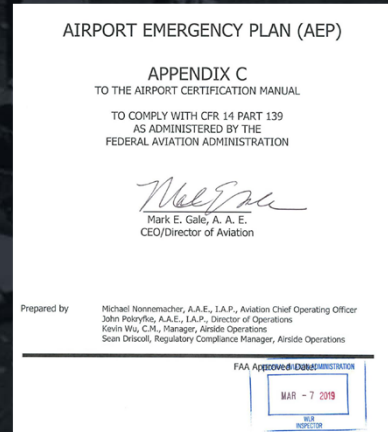
- In 2019 - 926M U.S. Passengers and 10.2M Tons of Cargo
- Airports are Regional Gateways and Economic Engines
 - ✓ Economy Boost - \$1 Trillion Impact
 - ✓ Global Connections - 80 Countries
 - ✓ Commercial / Military / General Aviation Ops in 5,000 Public Airports

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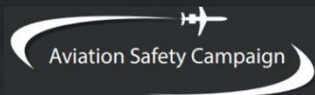


Legal Requirement:

- No “*Official*” Legislation
- Airport Emergency Plan (AEP)
 - ✓ Required by the FAA
 - ✓ Guiding Document for Airports
 - ✓ Part of the Airports’ Certification Manual
 - ✓ Outline Emergency Response Capabilities and Procedures
 - ✓ Requires Annual Review and Triennial Full-scale Exercises



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All Hazards EM/Preparedness Approach



- Aircraft Accidents
- Natural Disasters
 - ✓ Hurricanes
 - ✓ Tornadoes
- Terrorism Incidents
 - ✓ “*Active Threats*”
- Fires (Structure / Fuel Storage Facilities)

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- American Association of Airport Executives
- Southeast Airports Disaster Operations Group
- Florida Airports Council
- Local Mutual Aids
 - ✓ LEO/FRS/Hospitals
- County/State/Federal Gov't Resources





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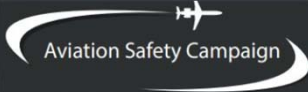


First and Foremost... *Have a Plan!!*

- Have Plans Before Disasters
 - ✓ AEP for Airports
 - ✓ ERP for Air Carriers
 - ✓ Continuity of Operations
 - ✓ Hurricane Preparedness
 - ✓ HR Policies and Procedures
- Share Plans with Stakeholders
- Workshop / TTX / Drill Together



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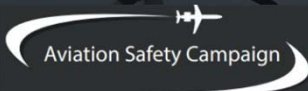


Building Relationships:

- *In Advance...*
- FEMA / State / Local EM
- Airline Response Teams
- Non-Profit Organizations
- First Responders
- Department of Health
- Hotels / Concessions



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Establish Expectations

- Mutual Aid / MOU / MOA
- Family Assistance
- Disaster Assistance
- Crisis Communication
- Logistical Support
- Pay / Leave Policies
- Safety / Security



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Pulling it Altogether

- Relationships and Planning are Recipes for Success
- Multi-Agency Exercises
- Recurrent Training / Plan Review / MOU Update
- Conferences / Network






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Hurricane Preparations

- Be StormReady
- Have Plans Ready
 - ✓ For Work and Home
 - ✓ For You and Your **Pets**
- Alert Notifications/Team Communications
- Monitor NWS Updates






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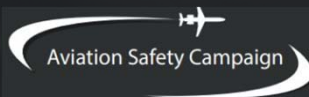


Leveraging Technologies and Resources

- WebEOC
- IPAWS / Everbridge
- WeatherSTEM
- FEMA / IAEM / FEPA
- FAC / IATA / ICAO
- GoCrisis / Red Cross
- Salvation Army



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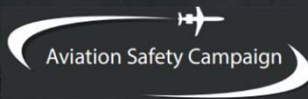


Hurricane Prep at FLL

- Get Volunteers
- Hurricane Plan
✓ COOP / DAT
- Broward EMD Training/Exercise
- NWS Briefings
- FLL Stakeholder Briefings



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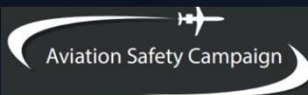
The Storm Approaches...

Phase I - Hurricane Watch

- 48 hrs Before Onset of Sustained Tropical-Storm-Force (TSF) Winds
 - ✓ 39 mph (34kts)
- Schedule Meetings With Staff and Stakeholders
- AEOC Activation Level III
- Monitor "Cone of Death," "Cone of Overtime..."



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Phase II - Hurricane Warning

- 36 hrs Before Anticipated Onset of TSF Winds
- AEOC Activation Level II
- Prepare for Airport Closure
 - ✓ Community decision
 - ✓ 4 Hrs before TSF winds
- Finalize Staffing Roster
- Secure Airport Facilities
 - ✓ Buildings / Jet Bridges
 - ✓ Aircraft / Equipment



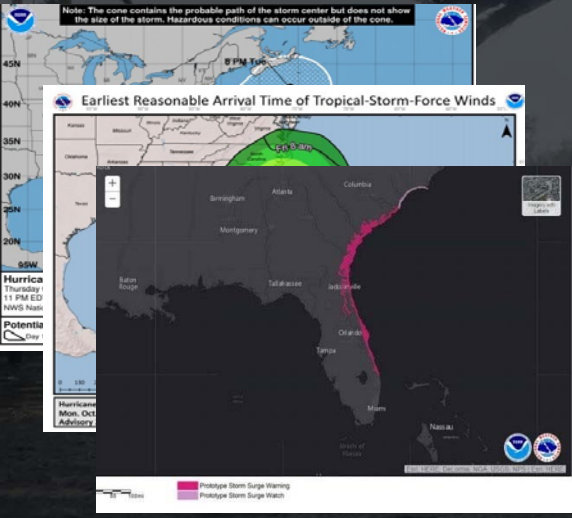
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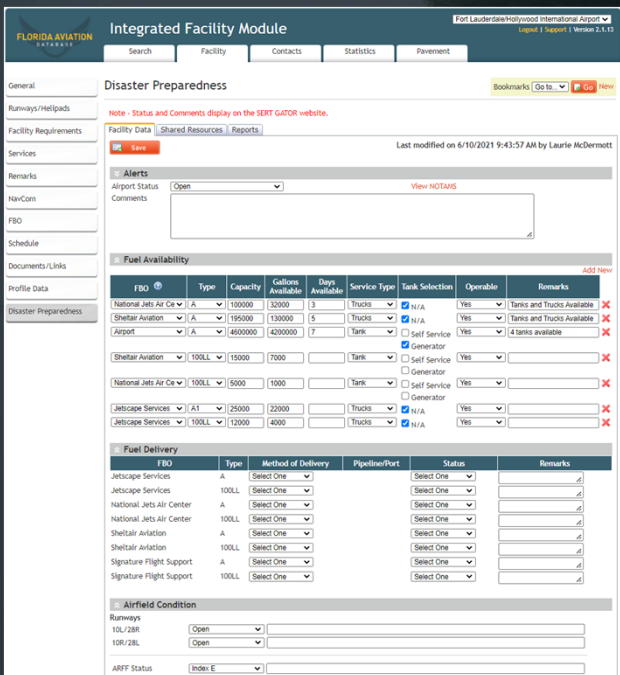
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Planning Activities

- Airport Facility Closure
 - ✓ Forecasted Path
 - ✓ Forecasted Intensity
 - ✓ Anticipated Landfall
 - ✓ Storm Surge Probability
- NWS Briefings
- Coordinate with Broward County EOC



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Phase III - Hurricane

- Airport Closed
- AEOC Activation Level I
- Maintain Communication with Staff & Tenants
- Monitor NWS Briefings
- Business Resumption and COOP Planning
- DOCUMENTATION!
- Update the FAD

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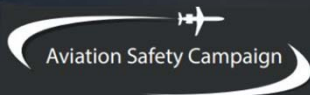


Phase IV - Recovery:

- Account for Staff
- Check-in With Families
- DAT Reports
- Stakeholder Conference Calls
- Staffing Recall Requirements
 - ✓ TSA/ATCT
 - ✓ Air Carriers/Concessions
- Passenger/Public Assistance
 - ✓ Terminal Crowd Control



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More Recovery Activities:

- Business Resumption
 - ✓ Debris Removal
 - ✓ Aircraft/GSE
- Coordinate Military and Humanitarian Flight Operations
- Reflect and Recharge



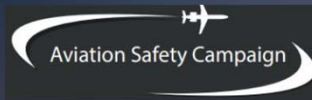
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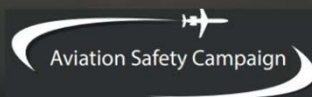
Collaborative EM Approach



- Industries Unite to Help
- Community Response
- Use Your Resources
- Leverage Relationships
 - ✓ Relationship is Power
 - ✓ Build Them Beforehand
- Teamwork Makes the Dream Work



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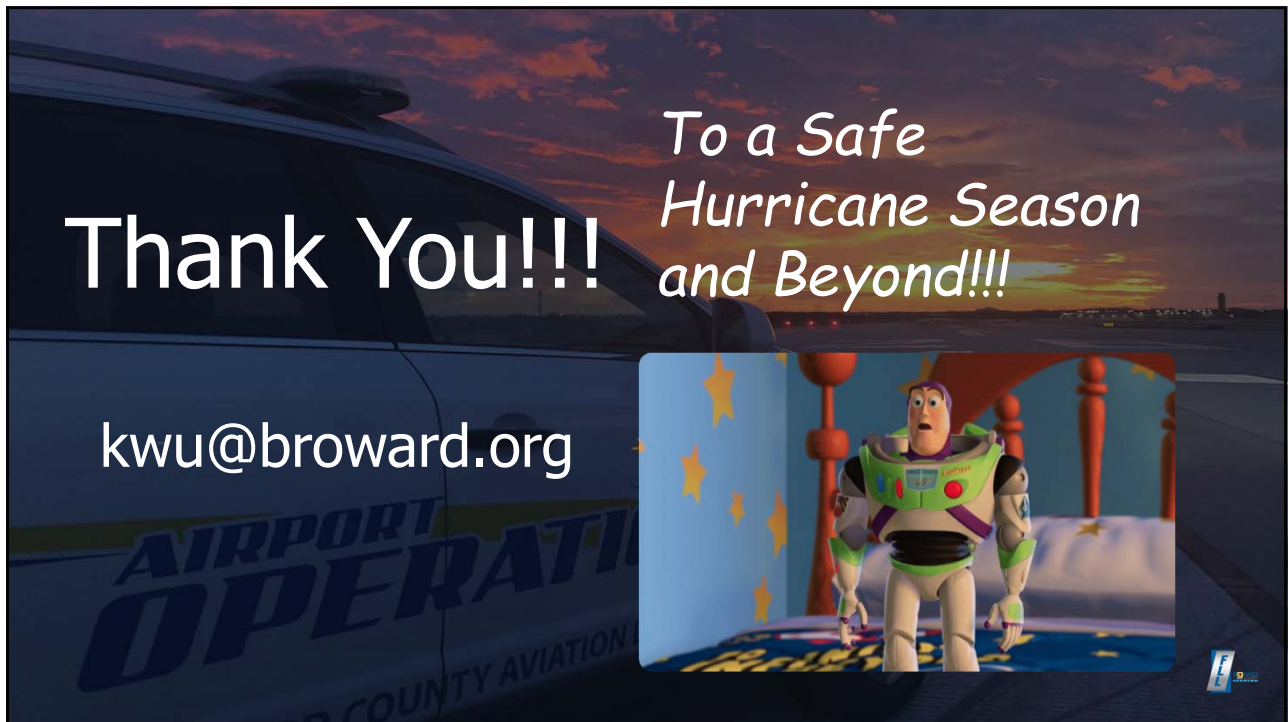


Finally... Take Care of Yourself

- ER is Mentally and Physically Exhausting
- Response and Recovery Activities Could Take Days to Weeks
- Take Care of Your Team
 - ✓ Rest / Food / Water
 - ✓ Safety / Medicine



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