

# Air Guard 101



Greg "YT" Whiting

512-782-5008



# Wing Locations





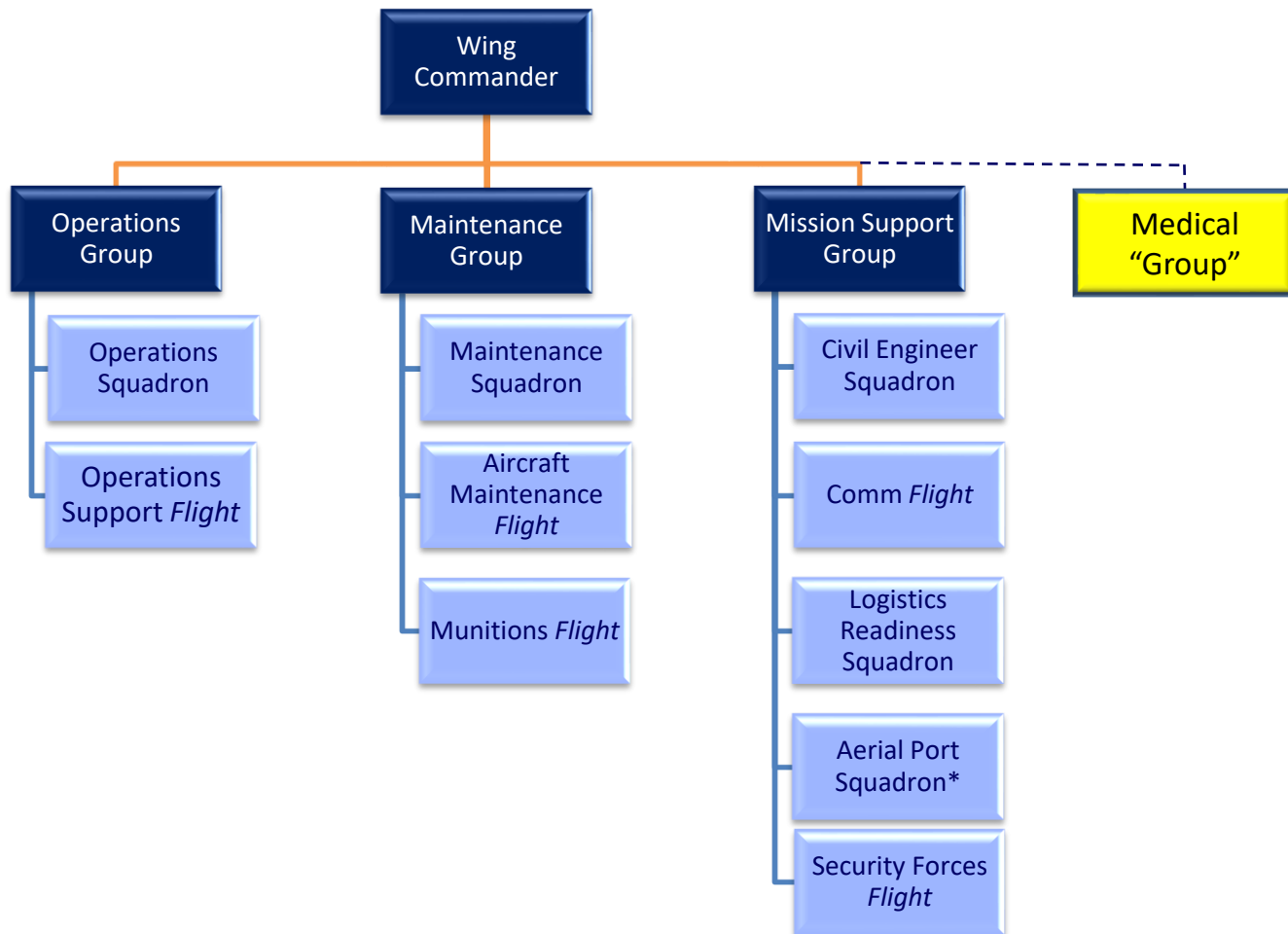
# Organization

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|           |          |
|-----------|----------|
| Army      | HQ USAF  |
| Corps     | MAJCOM   |
| Division  | NAF      |
| Brigade   | Wing     |
| Regiment  | Group    |
| Battalion | Squadron |
| Company   |          |
| Platoon   | Flight   |
| Squad     |          |



# Typical ANG Wing





# USAF MAJCOMS

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Air Education and Training Command ★



Pacific Air Forces



Air Force Reserve Command



Air Combat Command ★



Air Force Space Command ★



Air Force Materiel Command



Air Force Special Operations Command



Air Force Global Strike Command



US Air Force in Europe



Air Mobility Command ★



# TXANG Wings and Their MAJCOMS



Title 10/Mobilized



Title 32/Day-day  
Federal  
Mission



**Opcon**  
**Adcon**  
**Civil Support**



Air Mobility  
Command



136 AW



Air Combat  
Command



147 ATKW



Air Education and  
Training Command



149 FW



# TXANG Wings

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- Tasked with Federal Missions Day-to-Day
- Must maintain C-1 Status for Federal Missions
  - 72 hr on-call
  - ‘SRP’ monthly during UTA
  - AT at unit/individual discretion
- All TXANG personnel must have SECRET clearance
- Wings control their budget
  - Full Time personnel funding
    - AGRs and Military Technicians





# Federal Missions



136<sup>th</sup> Airlift Wing  
Ft. Worth  
(Tactical Airlift)



147<sup>th</sup> Attack Wing Houston  
(Reaper Operations)



149<sup>th</sup> Fighter Wing  
San Antonio  
(F-16 Pilot Training)



1/3 of TXANG Personnel are Full-Time Guardsmen supporting their Wings' Federal Missions





# 136AW





# Task Force Falcon

## Aliases

- Air Hub
- APOE



## MRP = AC2 / TF Falcon

Airlift

Airfield Ops & C2

- Airlift Control Flight (ALCF)
- Aerial Port Team

TICP

Security Forces  
Staff

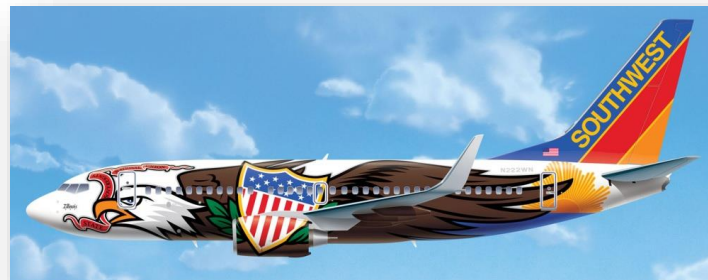






# 136AW

- 24-48 hour response





# Airlift Cost/Time

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- 24-hr notice of mission tasking at a minimum.
  - No guarantee of aircraft availability due to commitments/maintenance
- Flying hours = \$8,309/hour, 4 miles a minute.



# MRA- Mission Ready Airlift

| Airlift Date | Requests due | Requests to NGB | Catalog available | MRA Conference |
|--------------|--------------|-----------------|-------------------|----------------|
| FY/Q1        | 15 Jun       | 1 Jul           | 31 Jul            | 2d wk/Aug      |
| FY/Q2        | 15 Sep       | 1 Oct           | 3 Nov             | 3d wk/Nov      |
| FY/Q3        | 15 Dec       | 2 Jan           | 30 Jan            | 2d wk/Feb      |
| FY/Q4        | 15 Mar       | 1 Apr           | 30 Apr            | 2d wk/May      |

ROT: Planning & requesting *minimum* of 2 quarters in advance for airlift

Requirements: **5/30/300**

- 5 tons or 30 PAX **AND** 300 miles to be validated

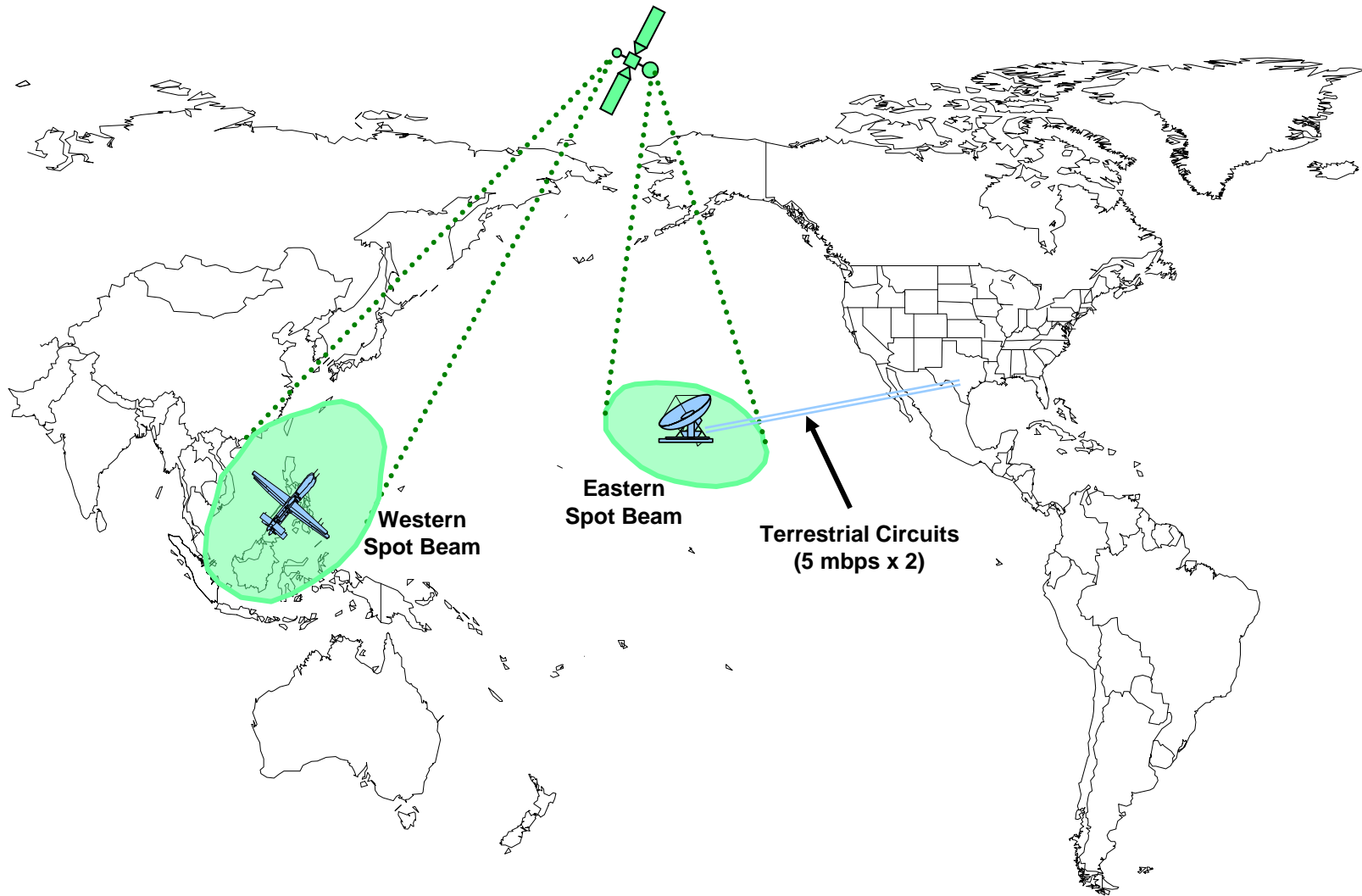


# 147ATKW





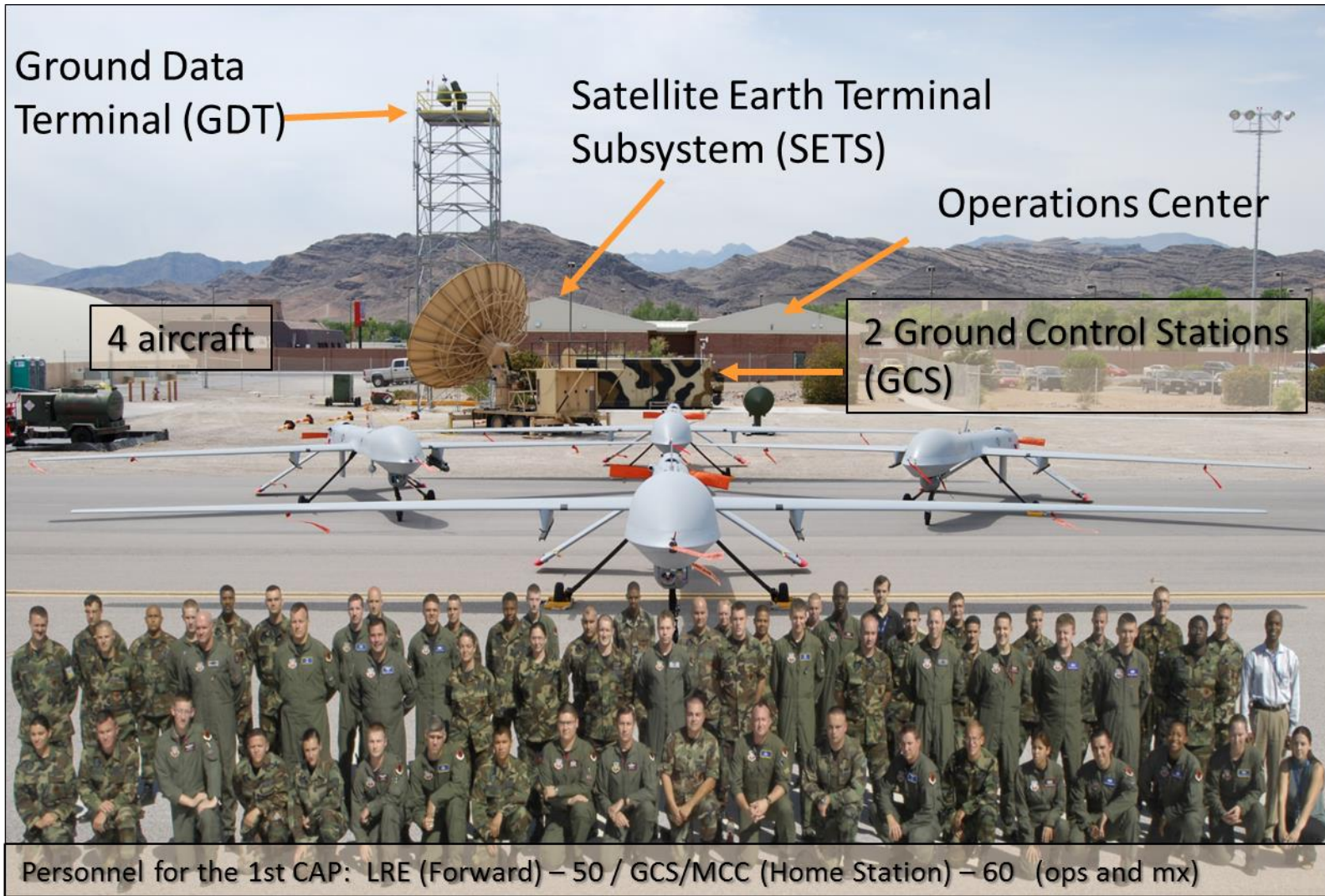
# 147ATKW RPA Ops







# RPA Personnel





# Domestic RPA Use



| Force Provider(s) | TXANG        |           |
|-------------------|--------------|-----------|
| Response Time     | Cost per Day | Personnel |
| 24-48 hours       | \$32,409     | 60        |

| Task and Purpose   |
|--|
| <p><b>UNAUTHORIZED MQ-9 OPERATIONS:</b></p> <ul style="list-style-type: none"> <li>MQ-9s may not be used for Federal, State, or local immediate response.</li> <li>Armed MQ-9s may not be used in the United States for other than training, exercises, and testing purposes.</li> </ul> <p>Provide Incident Awareness &amp; Assessment (IAA) through unclassified distributable color and infrared high definition real time full motion video (FMV), synthetic aperture radar (SAR) imagery (4in - 3m fidelity), and ground moving target indication (GMTI).</p> |

| Personnel   |
|---|
| 10 RPA Pilots<br>10 Sensor Operators<br>2 Supervisors of Flying<br>33 Maintenance<br>5 Intelligence |
| \$19,560 per day for 24 hour operations.  |

| Concept of Operations   |
|---|
| MRP is managed by AOC-TX. The State Operations Center (SOC) working through the AOC-TX provides the priority of work and air space management.  |
| MQ-9 can simultaneously collect and disseminate real time FMV, GMTI, and SAR imagery to first responders, local/state officials, and partner forces across a variety of unclassified systems. |

| Equipment   |
|---|
| <ul style="list-style-type: none"> <li>2 MQ-9 Remote Piloted Aircraft</li> <li>1 Dual Control Mobile Ground Control Station</li> <li>1 Satellite Earth Terminal Sub-System (SETTS)</li> </ul> |
| \$649 per hour of flight time per aircraft.   |

| Required Support/Special Instructions  |
|--|
| Chase aircraft (Civil Air Patrol) are required by FAA for MQ-9 flights (\$400-\$1,000 per day)<br>One MRP can provide a maximum of 20 hours of flight time.<br>FAA Current aircraft/systems configurations limit MQ-9 operations to a 50nm radius from Ellington Field (KEFD).<br>Operations outside this range require EMAC of out-of-state MQ-9 pilots and sensor operators. |

| Mission References |
|--------------------|
|                    |

## MQ-9 Domestic Response Battle Drill

**Purpose:** Provide guidance and decision points for ANY domestic response MQ-9 Operations, [In compliance with SECDEF Memorandum, "Guidance for the Domestic Use of Unmanned Aircraft Systems in U.S. National Airspace, 18 Aug 2018," AF111-2MQ-1&9, Operations Procedures (certified current on 28 Aug 2015) and consistent with applicable laws, regulations, and memoranda of agreement concerning the operations of UAS in the National Airspace System (NAS).]

### UNAUTHORIZED MQ-9 OPERATIONS:

- MQ-9s may not be used for Federal, State, or local immediate response.
- Armed MQ-9s may not be used in the United States for other than training, exercises, and testing purposes.

| Description  | Request   |
|--|---|
| The 147 <sup>th</sup> Attack Wing, Ellington Field Joint Reserve Base, Houston, TX (KEFD) operates the MQ-9 Reaper. The Reaper provides Incident Awareness and Assessment (IAA) through unclassified distributable color and infrared high definition real-time full-motion video (FMV), synthetic aperture radar (SAR) imagery capable of 4 inch - 3 meter fidelity. Supports ESFs 1, 2, 4, 10, and 13. | A request for MQ-9 domestic use may not be a direct request for the RPA MRP (MRP Catalog), but may be recommended when the need for any of the following is in the request for civil support: <ul style="list-style-type: none"> <li>Sustained endurance IAA efforts are required</li> <li>Unmanned aircraft provide superior capabilities than manned IAA assets</li> <li>Physical infrastructure limitations prohibit the use of manned rotary or fixed-wing aircraft.</li> </ul> |

| Coordinating Entities   | Trigger  |
|---|--|
| <ul style="list-style-type: none"> <li>147 ATKW</li> <li>HQTXANG/A3</li> <li>TMD J2</li> <li>TAG</li> <li>NGB J2</li> <li>FAA</li> <li>AFNORTH/CC</li> <li>NORTHCOM/CC</li> <li>SECDEF</li> </ul> | <b>A request from federal, state, local, or tribal government organizations for MQ-9 Reaper support.</b> |

### MQ-9 Domestic Response Approval Process (☆☆ = TAG Decision Point)

- Upon receipt of **any** request from **any** entity for domestic MQ-9 Reaper support, notify TMD JOC, NGTX-AIR-A30 (HQTXANG/A3 Chief of Air Operations), and JFHQ/J2
  - Determine mission type: Search and Rescue (SAR) that involves distress or potential loss of life, to include supporting the US Coast Guard Maritime SAR, or Incident Awareness and Assessment (IAA)
  - Assess whether rotary or fixed wing manned aircraft are able to provide requested support. The MQ-9 Reaper may be used in lieu of manned aircraft for domestic missions when sustained endurance is required, it provides superior capabilities, when physical infrastructure limitations prohibit the use of manned rotary or fixed-wing aircraft and it is the most cost-effect response.
  - NGTX-AIR-A30 will coordinate with the 147 ATKW for aircraft/crew availability
- ☆☆ 4. Upon verifying a valid mission and aircraft/crew availability, recommend TAG request mission approval IAW the following procedures:

**SAR**

Approval Authority for Air Force Rescue Coordination Center (AFRCC)/Alaska Rescue Coordination Center (AKRCC)/Joint Rescue Coordination Center (JRCC)-Pacific and USCG coordinated missions **with a properly issued SAR mission number is CDUSNORTHCOM.**

**All other SAR missions require SECDEF Approval**

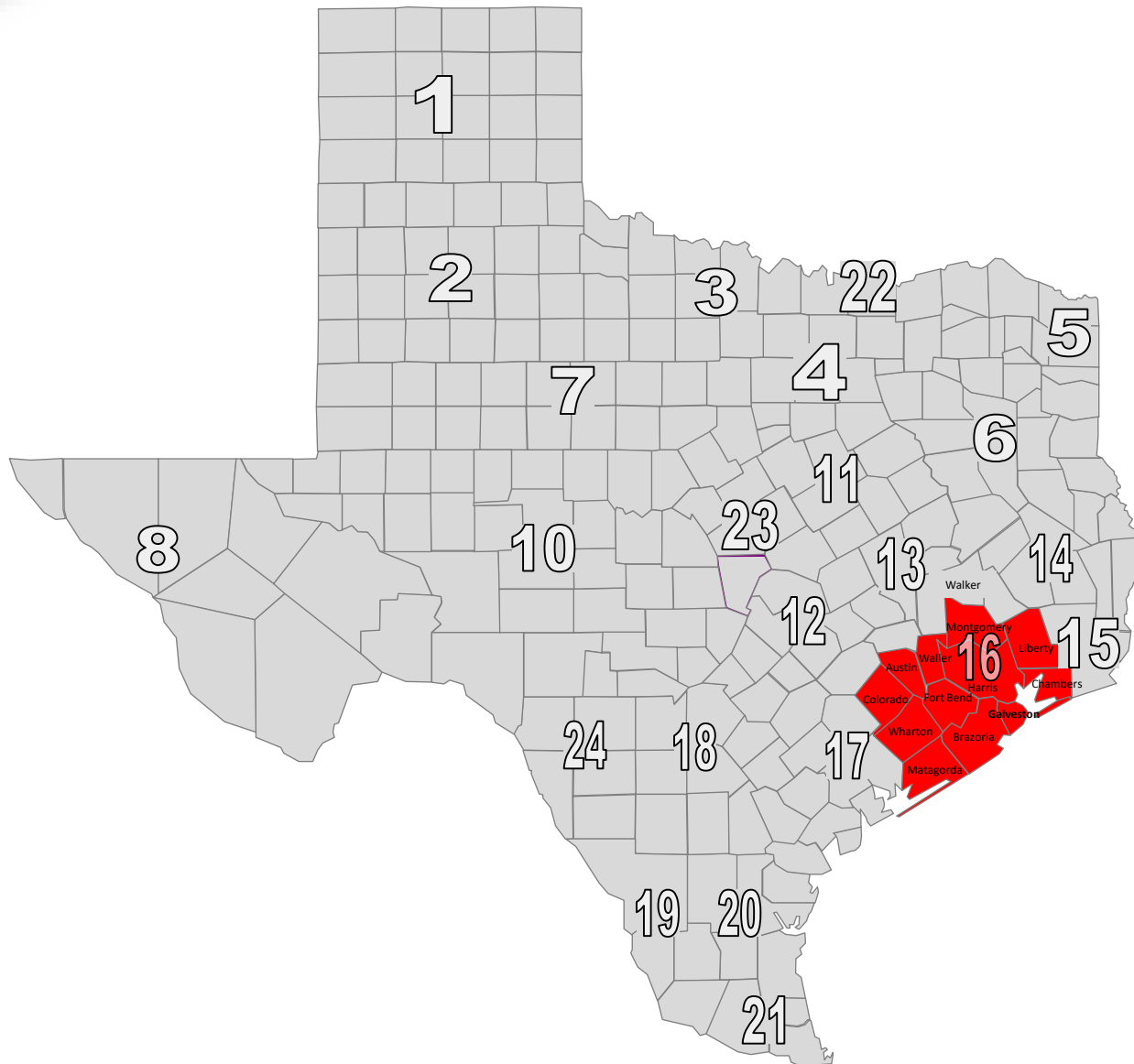
**IAA/SAR\*/LEA**

SECDEF is the approval Authority for IAA, \*SAR missions that are **not** associated with the Air Force Rescue Coordination Center (AFRCC)/Alaska Rescue Coordination Center (AKRCC)/Joint Rescue Coordination Center (JRCC)-Pacific or USCG coordinated missions, and/or do not have a properly issued SAR mission number, and for Law Enforcement Agencies support.

☆☆ For missions that are **urgent and time-critical** in order to protect life or property, TAG contacts DoD UAS personnel in Homeland Defense & Global Security (HD&GS) at (571) 256-8330, or (703) 697-5774. If after hours or weekends, contact the Executive Support Center of the Office of the Secretary of Defense (SecDef, Cables) at (703) 692-7000, and request to be connected with the Deputy Assistant Secretary of Defense or Principal Director for Homeland Defense Integration and Defense Support of Civil Authorities (HD&DSCA).



# DD-16b







# 147ASOS

Tactical Air Control Party (TACP)/  
Joint Tactical Air Controllers (JTACS)

- Embed with Texas Task Force 1





# 149FW



- Sep-May
  - 10 Basic qualification students
- May-Oct
  - 44 Requalification/Senior Officer students





# TEXAS AIR OPERATIONS CENTER



HURRICANE  
WARNING  
TEXAS COAST



# Texas Air Operations Center

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The AOC-TX is a federal, state, and local multi-agency air coordination center hosted and managed by Texas Military Department (TMD) under the authority of the State Operation Center (SOC)

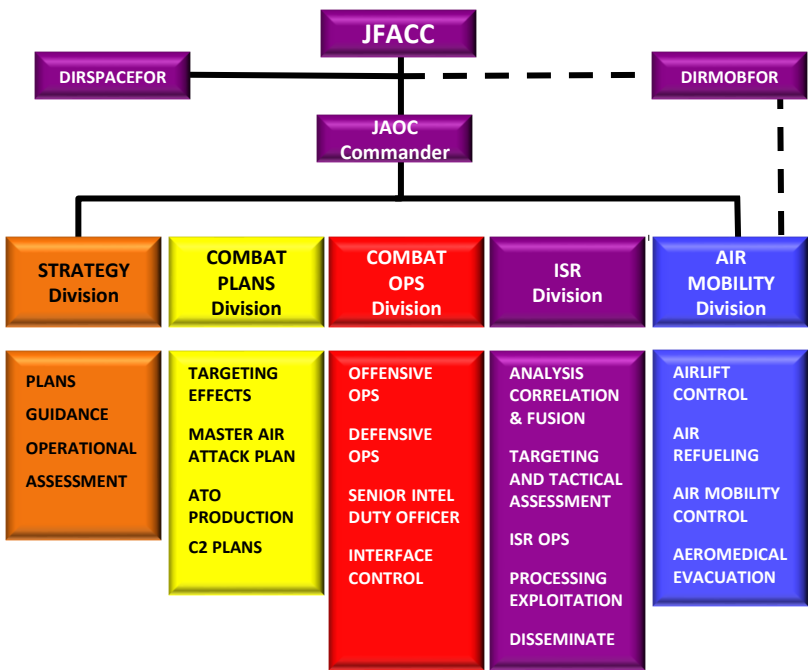
*Purpose: Provide the SOC with contingency air mission management and airspace management during an event*



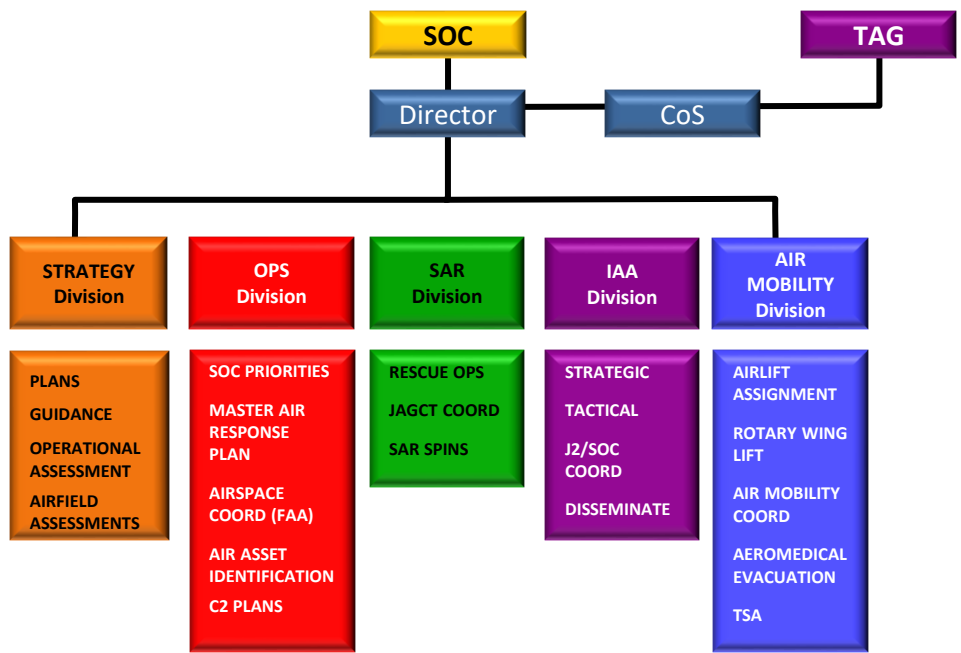


# Structure

## Joint Air Operations Center



## Texas Air Operations Center



### AFI 13-1AOCv3

Operational Procedures – Air Operations Center AOC  
2 Nov 2011

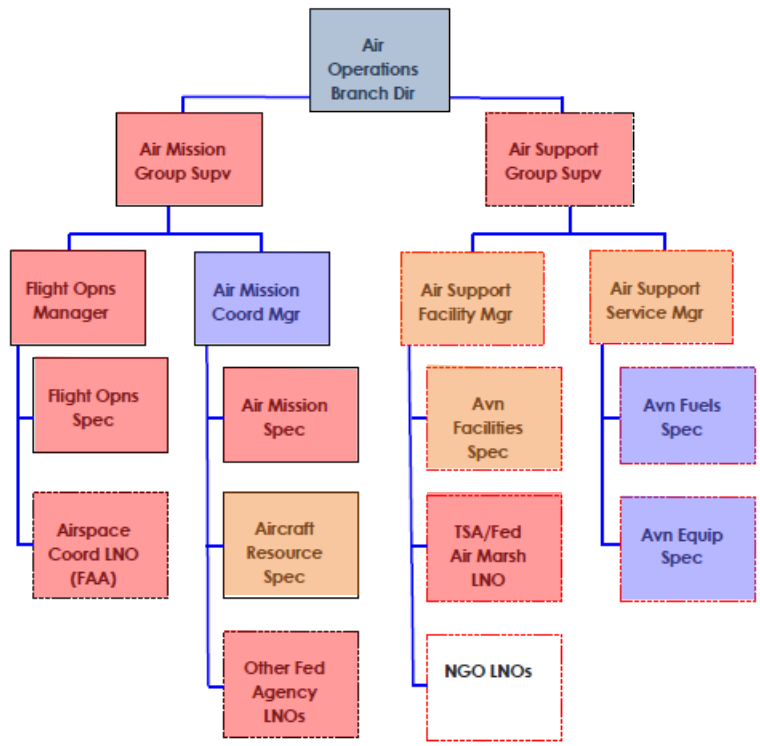
Incorporating Change 1, 18 May 2012

Figure 2.2 JAOC Organization and Functional Teams

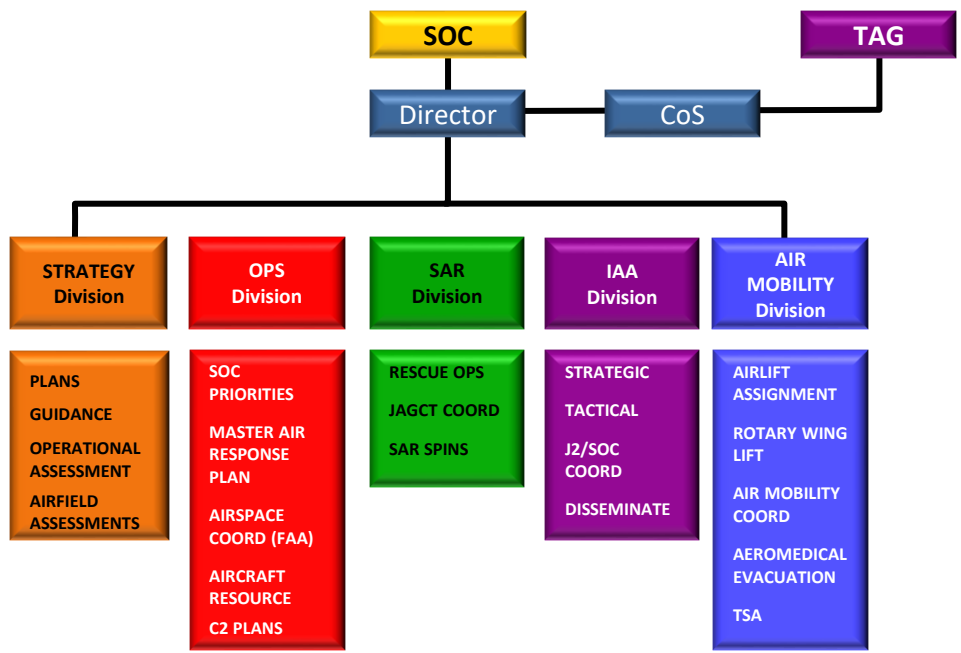


# Structure and FEMA AOB

**FEMA Air Operations Branch**



**Texas Air Operations Center**





# Key Functions

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- Develop air operations strategy
- Task and execute day-to-day air operations based on State priorities
- Integrate, coordinate, and deconflict the total effort
- Build & maintain shared situational awareness (SSA) of all response air missions flown in disaster area
- Coordinate ground support at designated airports and airfields



# Key Functions

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- Coordinate with FAA to plan and implement contingency air traffic and airspace management measures
- Serves as interface between:
  - SOC
  - FAA's Airspace Access Response Cell (AARC)
  - FEMA's Movement Control Center (MCC)
  - 601<sup>st</sup> Regional Air Movement Control Center (RAMCC)
  - ANG Crisis Action Team (CAT)
- Monitor status of key airfields and related elements within disaster area or critical to efforts

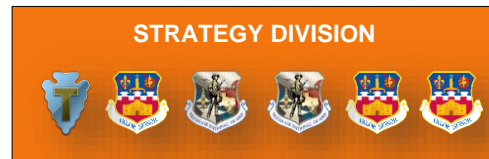


# AOC-TX Seating Chart



C.O.O.

YT



Location TBD



# SAR Division







# IAA Division







# Air Mobility





# Questions

