Ellington Field Joint Reserve Base

Colonel Jack “Stitch” Daniel, Commander
Ellington Field JRB Overview

Ellington Field JRB Tenants
- 147th Reconnaissance Wing
- 1-149th Attack Reconnaissance Battalion
- U.S. Coast Guard
- 138th Fighter Wing Det 1
- 75th Battle Command Training Division
- Navy Operational Support Center
- 1st Battalion 23rd Marines
- Texas State Guard
- Civil Air Patrol

Ellington Field JRB Population

Ellington Field JRB Needs
Ellington Field JRB Tenants

EF JRB (Blue)
- 147th Reconnaissance Wing (TXANG)
- 136th Signals Battalion (TXARNG)
- Houston Army Aviation Support Facility (TXARNG)
- US Coast Guard (DHS)
- 138th Fighter Wing Det 1 (OKANG)
- Civil Air Patrol
- Texas State Guard

AFRC (Green)
- 75th Battle Command Training Division (USAR)
- 1-149th Attack Reconnaissance Battalion (TXARNG)
- 451st Civil Affairs Battalion (USAR)
- Navy Operational Support Center (USNR)
- 1 Battalion 23rd Marines (USMCR)
147th Reconnaissance Wing
Texas Air National Guard

- **Mission**
  - Federal - Provides Combat Support to multiple commands
  - State - Disaster response and border protection

- **Capabilities**
  - MQ-1B Predator
  - Air Support Operations Squadron
  - RC-26 Counter Drug

- **Personnel**
  - 924 (309 Full-time / 615 Part-time)

- **Community Impact**
  - $84 million

- **Needs**
  - FAA Approval to Fly in NAS
  - JRB Status-Purple Money
Mission
Detects the enemy and provides lethal fires, enabling US Forces to freely maneuver and take the battlefield initiative

Capabilities
Nine Aerial Weapons Teams (2 x AH-64s) for continuous combat operations.

Personnel
570 (120 Full-time / 450 Part-time)

Community Impact
$22.5 million

Needs
New Hangar to house the AH-64D
Mission
Defend the Nation’s maritime borders and save those in peril

Capabilities
3 MH-65C Helicopters

Personnel
181 (91 Active Duty / 90 Auxiliary)

Community Impact
$8.3 million

Needs
Main Hanger HVAC and roof repairs
138th Fighter Wing Det 1
Oklahoma Air National Guard

- **Mission**
  Provides rapid and lethal aerospace defense and air sovereignty assets in response to hostile actions against North America

- **Capabilities**
  Armed F-16CM (Block 42) Fighting Falcons

- **Personnel**
  34 Full-time

- **Community Impact**
  $2 Million

- **Needs**
  Military Construction (MILCON)
  - Expansion of BLDG 1397 (Alert Facility)
  - Renovation of BLDG 1394 (Fuel Hanger)
  - RELCAN (Releasable to Canada) capability in vault
75th Battle Command Training Division
U.S. Army Reserve

- **Mission**
  Pre-deployment battalion and higher battle command training

- **Capabilities**
  Interoperable and Integrated Training

- **Personnel**
  709 (109 Full-time / 600 Part-time)

- **Community Impact**
  $13.3 million

- **Needs**
- **Mission**
  Provide mission-capable units and individuals to the Navy – Marine Corps Team in peace and war

- **Capabilities**
  Train and Equip units for contingency operations

- **Personnel**
  987 (30 Full-time / 957 Part-time)

- **Community Impact**
  $11.1 million

- **Needs**
**Mission**
- Inspects and assists command functions;
- Executes community relations tasks to maintain a continuous state of mobilization/deployment readiness

**Capabilities**
- Battalion staff, a Headquarters and Service Company, three infantry companies, and five dispersed weapons companies

**Personnel**
- 444 (44 Full-time / 400 Part-time)

**Community Impact**
- $7.5 million

**Needs**
Texas State Guard
Texas Military Forces

- **Mission**
  Provide mission-capable airmen as a force multiplier for the Texas Air National Guard to enable homeland security and Defense Support to Civil Authorities (DSCA) missions

- **Capabilities**
  - Shelter Management & Point of Distribution (PoD) Management – Provide Emergency Management during natural or man-made disasters
  - 147th Reconnaissance Wing support and Force Multiplier

- **Personnel**
  45 Part Time

- **Needs**
  Continued facilities support at Ellington Field JRB

*The TXSG is an all Volunteer force (non-pay status unless under active duty orders)*
Civil Air Patrol  
U.S. Air Force Auxiliary

- **Mission**
  - Aerospace Education, Cadet Programs, and Emergency Services

- **Aerospace Education and Cadet Programs**
  - Engineering, Science, Aircraft Maintenance, Aerospace Medicine

- **Emergency Services**
  - Search and Rescue
  - Disaster Relief
  - Humanitarian Services
  - Air Force Support
  - Counterdrug
## Ellington Field Numbers

<table>
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<tr>
<th>Unit</th>
<th>Full Time</th>
<th>Part Time</th>
<th>Total Personnel</th>
<th>Economic Impact</th>
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<tr>
<td>147&lt;sup&gt;th&lt;/sup&gt; RW</td>
<td>309</td>
<td>615</td>
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<td>1-23&lt;sup&gt;rd&lt;/sup&gt; Marines</td>
<td>44</td>
<td>400</td>
<td>440</td>
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<td><strong>Grand Total</strong></td>
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<td><strong>3112</strong></td>
<td><strong>3845</strong></td>
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-Dollar amounts are in millions
-Current as of Jan 2012
Ellington Field JRB Challenges

Challenges

- FY13 Budget
  - Budget Control ACT $492B
  - Sequester $1.2T
  - Readiness-hollow force
- BRAC 201X?
- FAA Approval to Fly RPAs in NAS
- JRB Status-Purple Money
- Joint Small Arms Range
- Joint Security Funding
- Fitness Center
- Running Track
- BX/Commissary
- Joint Dining Facility
- Joint Medical Facility
- Billeting Complex
MQ-1 Predator / MQ-9 Reaper
101

Colonel Jack “Stitch” Daniel, Commander
“We have just won a war with a lot of heroes flying around in planes. The next war may be fought by airplanes with no men in them at all . . . Take everything you’ve learned about aviation in war, throw it out of the window, and let’s go to work on tomorrow’s aviation. It will be different from anything the world has ever seen.”

Gen Hap Arnold, USAAF VJ Day, 1945
RPA Mission Execution
Predator System (24/7 CAP)

Ground Data Terminal (GDT)

Satellite Earth Terminal Subsystem (SETS)

Operations Center

2 Ground Control Stations (GCS)

4 Aircraft

Personnel for the 1st CAP
LRE (Forward) – 50 (ops & mx)
GCS/MCC (Home Station) – 60 (ops and mx)
The Cockpit (GCS)
Remote Split Ops

- Ellington Field Joint Reserve Base
- Texas ANG
- Remote Split Ops
- Satellite
- LRE
- CAOC
- RPA
- CAPS
- Fiber Optics
- Receiver “Farm”
MQ-1B Tactical Systems

Ellington Field Joint Reserve Base

EO & IR Camera
IR Marker
Multi-spectral Targeting System
AGM-114P Hellfire
MQ-1B Tactical Systems

Laser Designator
IR Marker
Comparison

C-172 Size

MQ-1

2 x Hellfire

Wingspan: 49 FT  
Length: 26 FT

Max Speed: 120 KT  
Endurance: 24 hrs

Max Altitude: 25,000 ft MSL

Payload: 300 lbs (2 hard points)

MQ-9

2x500 lb LGB

4xHellfire

Wingspan: 64 FT  
Length: 36 FT

Max Speed: 240 KT  
Endurance: 18 hrs

Max Altitude: 50,000 ft

Payload: 3000 lbs (6 hard points)

A-10 Size
Sensor Details

- **EO—Day Only**
  - 6-Step, 155x Optical Zoom
  - 2x, 4x Digital Zoom

- **IR—Day, Night**
  - 3 to 5 Micron (Med IR)
  - 4-Step 56x Optical Zoom
  - 2x, 4x Digital Zoom

- **SAR—Day, Night, All Wx**
  - Resolution: 0.3 m
  - Swath Width: 600-1100 m
Day TV
Ultra Narrow
6 NM
Targeting to Engagement

**Target**
- Crews use Standard J-CAS and J-Fire Procedures
- Clearance from Grnd CC via radio/MiRC
- Clearance from CFACC

**Engage/Assess**
- Laser Tgt designator
- “Buddy Lase”
- Persistent Stare for BDA

**Collect**
- ROVER Video Direct FMV to JTAC
- Secure UHF/AM/FM Radio
- Laser Target Marker – Visible with NVGs
- FMV at CAOC
- SIPR/JWICS data base in GCS

AF Distributed Common Ground System

Ellington Field Joint Reserve Base
Current and Emerging Missions

Where we are
- Persistent Stare USF-I
- Dir Spt to Joint Warfighter - ISAF
- Precision Strike CFACC
- Humanitarian COCOM

Where we are going
- Target Development PACOM
- Counter-Narcotics SOUTHCOM
- DSCA NORTHCOM
- Counter-Piracy AFRICOM

Always Supporting the Joint Force Commander
The “Texans” get it done

Direct support to Joint Ground Forces Warfighter