33d Fighter Wing
F-35 Brief

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Overview

• Team Eglin
• Integrated Training Center
• Facilities
• Planning & timelines
• F-35 Info
• Key Take Aways
Team Eglin

AFRL MUNITIONS
DEFENSE THREAT REDUCTION AGENCY
AIR ARMAMENT CENTER
AFOTEC
53rd WING
33rd FW

20th SPCS
NAVY EOD SCHOOL
COAST GUARD
ARMY RANGERS
ARMY 7TH SFG
919th SPECIAL OPS WING
Integrated Training Center

• Joint ITC - BRAC directed

  “This recommendation establishes Eglin Air Force Base, FL, as an Initial Joint Training Site that teaches entry-level aviators and maintenance technicians how to safely operate and maintain the new Joint Strike Fighter (JSF) (F-35) aircraft”

  • $400M+ in MILCON and upgrades
  • 1600+ military, DoD civilian & contractor personnel

• Involves “shared resources”

  • Airspace
  • Facilities
  • CLS
F-35 Integrated Training Center (Eglin AFB) Command Relationships

CSFWP (Lemoore)

MAG-31 (Beaufort)

2nd MAW

OPCON/ADCON

OPCON

ADCON

TACON (limited)

Attached/Other

Host Support

USAF

USN

USMC

USN/USMC

LM

USAF/DoN

OPCON

CD

MX Dept

58th FS

24 CTOL

33 OSS

VMFAT-501

20 STOVL

VFA-101

15 CV

Mx Sqdn

Acft Mx Sq

AF AMUs

Mx Ops Sqdn

MXG/CC

OG/CC

ATC Director

DO

Mx Trng

Flt Acad

TSSC

372 TRS

(Sheppard)

FTD 19

(Eglin)

359 TRS

DO

MX Dept

CNADT

Navy Det

MX Dept

372 TRS

(Sheppard)

82 TRG

(Sheppard)

MATSG-21

(Pensacola)

CNATT

(Pensacola)

TECOM

TRNGCMD

NETC

AETC

82 TRG

(Sheppard)

982 TRG

(Shppard)

USAF

CNATT

MARDET

CNADT

Navy Det

Fleet Up
Eglin & Duke Upgrades

Eglin AFB

New Concrete

Duke Field

LHA Deck
33 FW Focus

Current Planning Dates

~ Summer 2011
Pilot Training

~ Mar 2011
Maint Training

Ready For Training

Stand Up Capabilities

Sustained Production

• Facilities
• Equipment
• People
• Processes
• Small Group Tryouts
• Day In the Life (DITL) Exercises

OT
33 FW Core Cadre

USMC
Ops Req

USAF
Annual Req

USN
 annual Req

INTL
annual Req

• Required number of Pilots and Maintainers Trained to support Instructors, OT, 33 FW Core Cadre, Service Initial OPS Squadron IOC/RFO

• Meet Annual Service/Partner Requirements for Pilots Trained
• Meet Annual Service/Partner Requirements for Maintainers Trained
F-35 Training

Pilot Simulators

- Full Mission Simulator (FMS)
- Mission Rehearsal Trainer (MRT)
- Pilot Training Aid (PTA)

Maintenance Simulators

- Aircraft Systems Maintenance Trainer (ASMT)
- Ejection System Maintenance Trainer (ESMT)
- Weapons Loading Trainer (WLT)

Electronic Training Systems

- Distributed Management of Records, Courseware, Software, Tech Data, Configurations
- Training Infrastructure System

JSF Aircraft
F-35 Partnership

- United States (2,443)
- UK (138 STOVL)
- Netherlands (85)
- Denmark (48)
- Turkey (100)
- Canada (65-80)
- Australia (100)
- Norway (56)
- Italy (69 CTOL 62 STOVL)

Potential FMS
Fleets F-35 Will Replace

Domestic and UK
- F-16
- A-10
- F/A-18
- F/A-18
- AV-8B
- Sea Harrier
- Harrier GR7

USAF
USN
USMC
RN/RAF

International
- Denmark
- Norway
- Netherlands
- Italy
- Turkey
- Turkey
- Australia
- Canada

F-16
F/A-18
F-111
AMX
Harrier
Tornado

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.
JSF Family Of Aircraft
One Program -- Three Variants
Meeting Service and International Needs

F-35A
Conventional Take-Off and Landing (CTOL)
- In-Flight Refueling Door (Boom)
- Internal 25mm 4-Barrel Gatling Gun

F-35B
Short Take-Off and Vertical Landing (STOVL)
- Probe and Drogue Refueling (Basket)
- Lift Fan
- Roll Posts

F-35C
Carrier Variant (CV)
- Larger Wing and Horizontal Tail Area
- Probe and Drogue Refueling (Basket)
- Strengthened Landing Gear and Tailhook
- Wingfold and Ailerons Added
- Centerline Gun Pod with 25mm Gun
- 3-Bearing Swivel Nozzle

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.
Multi-Mission Capability

Air-to-Air

- Very Low Observable Stealth
- Fighter Performance
- Integrated Sensor Fusion

Intelligence, Surveillance, Reconnaissance

- Net-Enabled Operations
- Peace Keeping Capabilities
- Advanced Sustainment

Air-to-Surface

- Carrier
- Short Takeoff
- Electronic Attack
- Conventional

Command & Control

Distribution Statement A: Approved for public release; distribution is unlimited.
Fully Integrated Avionics & Sensors

Exceptional Situational Awareness
Key Take Aways

• Eglin F-35 ITC is Unique
  • Only joint site for pilot and maintainer training on all three variants for all US Services and Coalition Partners.

• ITC training success tied to:
  • Aircraft utilization/Availability
  • Effective use of shared resources

• F-35 will have a huge footprint across the U.S.
  • Ranges, Targets and EW emitters will be key to effective training
  • High-fidelity targets key for advanced sensors
• Questions
  • Briefer Info: Maj Michael Ebner, 58 FS, michael.ebner@us.af.mil
Backup Slides
AF Ops/AMU Hangar

58 FS
‘Gorillas’
24 x F-35A

270 ft x 400 ft
77,000 sq-ft
**DoN Hangar**

**VMFAT-501**
- ‘Warlords’
- Apr 2010
- 20 x F-35B
- UK 6 jets

**VFA-101**
- ‘Grim Reapers’
- Oct 2011
- 15 x F-35C

- 450 ft x 400 ft
- 110,000 sq-ft
Academic Training Center

- 10 Full Mission Sims
- 600 ft x 450 ft
- 260,000 sq-ft
- Ejection seat trainer
- MX Weapons Load Trainer Area
LHA DECK – STOVL Training