



**NDIA**  
**Automatic Test Committee**  
**Navy/Marine Corps (Air)**  
**Liaison Reports**  
June 10, 2008

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# CASS & Other Navy Notes

- **RTCASS**
  - Development Test is currently underway
  - Production Option 04 authorized
  - Converting over 600 mainframe CASS TPSs to operate on RTCASS
  - High Power requirements defined; risk reduction effort initiated
  - Fielding to start the end of the calendar year
- **eCASS**
  - RFI#1 released May '07
  - Industry Day September '07
  - RFI #2 released May '08
  - Draft RFP release June '08
  - RFP release July '08
  - Planning full and open competition with award in 2009
  - Three-year development with LRIP production start in 2012
- **CASS PBL**
  - RFI released February '07
  - Industry Day March '07
  - RFP release December '07
  - Proposals submitted April '08
- **CNI**
  - Developing new CASS ancillary for CNI function with BAE
  - USN will eliminate its CNI Mainframe CASS configuration
  - Includes real-time Link 16, IFF, TACAN capability
  - Improved MIDS-LVT TPSs and new MIDS-JTRS TPS will be developed
  - Expandable via software for new JTRS waveforms
  - Will be hosted on CASS RF, RTCASS, and, in the future, on eCASS
  - Development schedule - August 2007 to August 2010
- **Other News**
  - Captain Belcher replaced Captain Killian

# TPS Offload Overview

- **DEVELOPMENT - 76 OTPSs**
  - 4 OTPSs in Integration
  - 18 OTPSs in Govt Acceptance Testing
  - 5 OTPSs Ready to DD250
  - 48 OTPSs DD250
  - 1 OTPS Terminated for Convenience
- **PRODUCTION**
  - 484 of 706 sets DD250

# Legacy ATE Transition to CASS

PHASE I			
ATE		AIRCRAFT	
APM-469	RSTS	S-3	Removed from I-Level
AN/USM-247	VAST	S-3, F-14 E-2	Removed from I-Level
AAM-60 (v)6	EOSTS	S-3	Removed from I-Level; P-3 using (v)2 version
AN/USM-614	ESTS	EA-6B, SH-60, S-3	Removed from I-Level; 2 left at NADEP
AN/USM-403	HATS	S-3	Removed from I-Level
APM-457	TTS HPOC	S-3	Removed from I-Level
AN/USM-604	EETS	AV-8B	Removed from I-Level; 1 left at CNATTU; 2 left at NADEP
AN/APM-446	RSTS	F/A-18, AV-8B	9 Remain at I-Level
AN/USM-629	EOTS	F/A-18	8 Remain at I-Level
OJ-615/ALM	TTS	EA-6B	7 Remain at I-Level
AN/USM-470(V)1	ATS	F/A-18	Removed from I-Level
AN/AWM-23	RFTS	F-14	Removed from I-Level
AN/AWM-23	LFTS	F-14	Removed from I-Level
AN/AWM-23	C&DTS	F-14	Removed from I-Level
AN/AWM-23	CTS	F-14	Removed from I-Level

PHASE II			
ATE		AIRCRAFT	
AN/USM-484	HTS	EA-6B	F/A-18 SH-60
AN/USM-467	RADCOM	EA-6B E-2C	SH-60
AN/USM-429	CATI IID	EA-6B	E-2C
AN/USM-470(V)2	TMV	SH-60	
AN/USM-458	NEWTS	AV-8B, F/A-18	
OJ-510/ALM	DTB	EA-6B	
PHASE III			
ATE		AIRCRAFT	
AN/ASM-686 Lot 1	IATS	F/A-18	
AN/ASM-686 Lot 2	IATS	F/A-18	
AN/ASM-608	IMUTS	Various	
A/E24T-205	GACT/GRAD Actuators	E-2C, EA-6B, C-2	
AN/ARM-146A	AN/ARA-63	Various	
AN/ASM-167 & TS-2454A	AS/APC	EA-6B	
CAT IIID/HTS Orphans	OTPS-22	EA-6B	
ARM-200 (Marine only)	IATS	Various	

Candidates under consideration
  CASS TPSs being delivered  
 TPS development in-process
  TPS effort completed


# Phase III TPS Legacy Offload to CASS


ATE		Aircraft	WRA/SRA	# OTPSs	Developer
AN/ASM-686 Lot 1 & 2	IATS	F/A-18	50/0	9	Boeing Corporation
AN/USM-608	IMUTS	VARIOUS	1/0	1	DEPOT Jacksonville
AN/ASM-467/470	GACT/GRAD Avionics Actuators	E-2C, EA- 6B, C-2	29/0	1	NSWC Crane
ARM-146 (ARA-63)	Decoder TS	Various	3/6	1	DEPOT Jacksonville
ASM-167	Anti-skid and APC	EA-6B, E-2C	3/0	1	NSWC Crane
CAT IIID/HTS Additions		EA-6B	3/12	1	DEPOT Cherry Point and North Island


No New Offload Starts in 2008

# Testers Under Consideration for Transition to CASS

ATE		AIRCRAFT
AN/ALM-249/250/251	ALQ-99 PS	EA-6B
AN/AIM-3A/B	AN/AIC-4/A	Various
AN/ASM-358	SUP PANEL TS	EA-6B
AN/ASM-175	EMTC	E-2C only
AN/APM-231A/B	RBTH	Various
AN/APM-455	Radar Beacon Test Set	Various
AN/APM-403	Radar Altimeter Test Set	Various
C-9154/APM	Test Harness Control	Various
MT-4483/4484/APM	Electrical Equipment Rack	Various
AN/APN-154/AN/APN-202/ R-1623	Automatic Carrier Landing System	Various
W104488-1	Radar Altimeter Test Set	Various
AN/ASM-81	IECTS	ASQ-19
TS-4508	Flight Cont TS	H-60
6A1	Relay Rack Tester	H-60
AN/ALM-178	EWTS	H-60
TTU-229A/E	Computer TS	H-46, H-60
Servo Module TS	Roll/Pitch/Yaw Servos	H-60
AN/APM-376	RTBS	E-2C
DEPOT TESTERS		Various

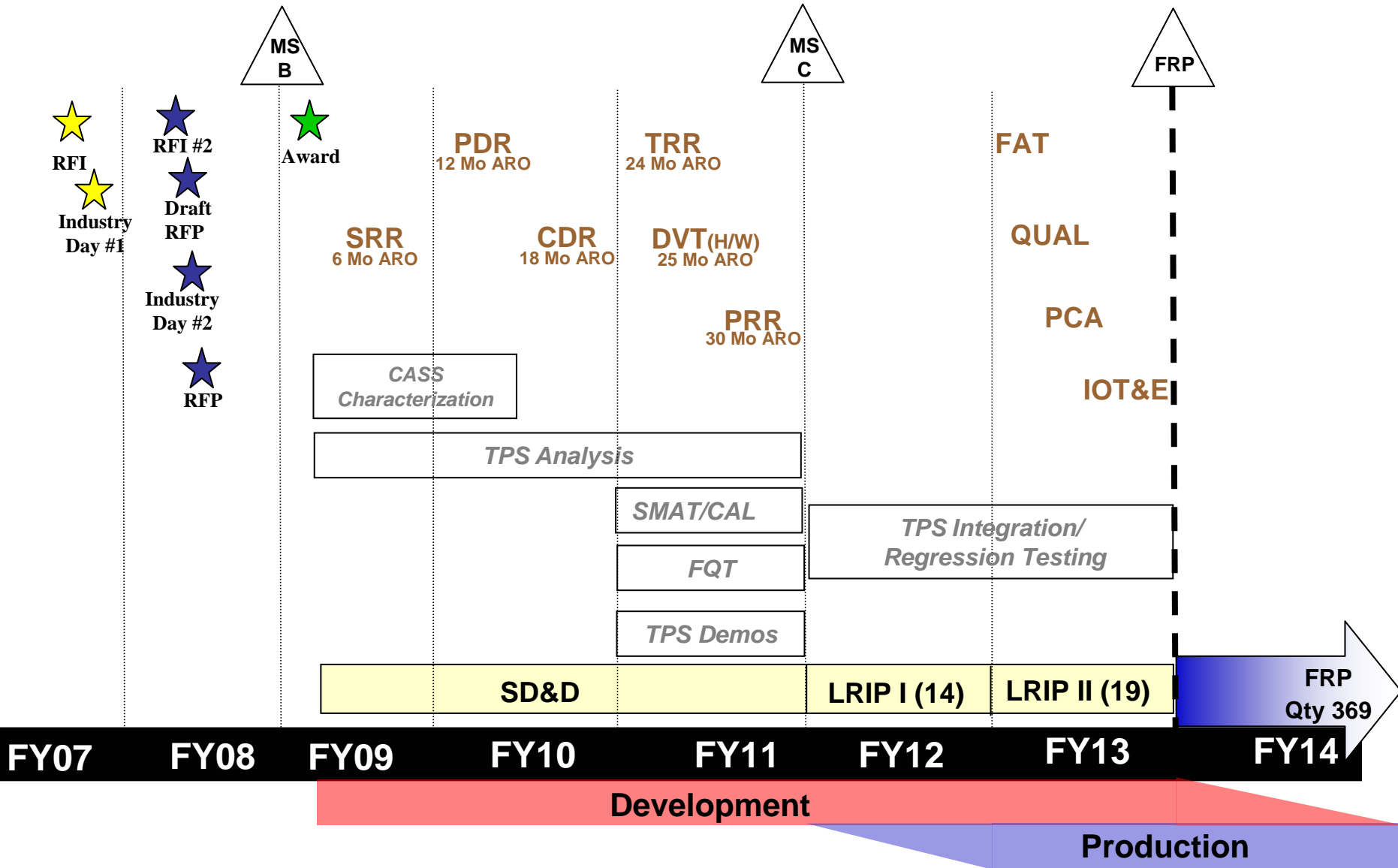
 Candidates under consideration

 TPS development in-process

 CASS TPSs being delivered

 TPS effort completed

# Notional Overarching Program Schedule



# Naval Strategy

## *Enabling Security and Stability Through Seapower*

- Provide a total Naval workforce
- Use the Navy-Marine Corps team to aggressively prosecute GWOT
- Build the Navy-Marine Corps force for tomorrow
- Safeguard the people and resources of the Navy-Marine Corps team
- Provide first-rate facilities



# Today

## *Department of the Navy Presence*

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### Navy

- 333,625 active strength
- 5,024 activated reservists
- 112 ships underway (away from homeport)
- 91 ships deployed
  - Two Carrier Strike Groups
  - Two Expeditionary Strike Group
- 54,325 underway on deployment
- 15,051 Boots on Ground
  - 11,101 Individual Augmentees



### Marine Corps

- 186,291 active strength
  - 114,115 Operating
  - 41,647 Supporting
  - 30,529 Other
- 8,677 activated reservists
  - 2,037 Individual Augmentees
  - 6,640 Mobilized
- 32,169 on deployment/forward deployed

*(data as of 04 Feb 2008)*

# Navy Budget

## FY 2009 Budget Breakdown (in billions)

**MilPers: \$41.6B**

Basic Pays	\$16.7
Housing Allowance	\$6.3
Retired Pay Accrual	\$4.9
Health Accrual	\$2.8
Reserve Personnel	\$2.8
Other	\$2.8
Special Pays	\$2.5
Subsistence	\$1.7
Allowances	\$1.0

Navy Strength 325,300  
Marine Corps 194,000

**Procurement: \$41.1B**

Aircraft	\$14.7
Ships	\$14.1
Weapons Procurement	\$3.6
Marine Corps Procurement	\$1.5
Ammunition Procurement	\$1.1
Other Navy Procurement	\$6.1

Building the Future

**\$**  
**FY09:**  
**\$149.3B**

**R&D: \$19.3B**

S&T	\$1.8
JSF (F-35)	\$1.5
MMA (P-8A)	\$1.1
VH-71	\$1.1
JTRS	\$0.8
CH-53K	\$0.6
MUOS	\$0.5
E-2D AHE	\$0.5
LCS	\$0.4
DDG-1000	\$0.4
CG(X)	\$0.4
EFV	\$0.3
CVN	\$0.3
Other Efforts	\$9.6

Transforming Investment

**O&M: \$42.3B**

Ship Ops	\$9.5
Base Support	\$7.1
Aviation Ops	\$6.8
Marine Corps O&M	\$5.6
Combat/Weapons Support	\$5.0
Service Wide Support	\$4.6
Training and Education	\$2.2
Reserve O&M	\$1.5

Rotational deployed presence

**MILCON: \$4.9B**

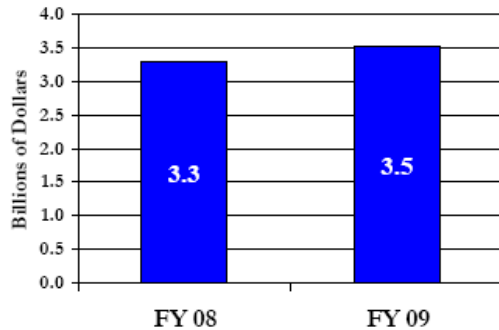
MILCON	\$3.1
BRAC	\$1.0
Family Housing	\$0.8

Facilities Enhancement

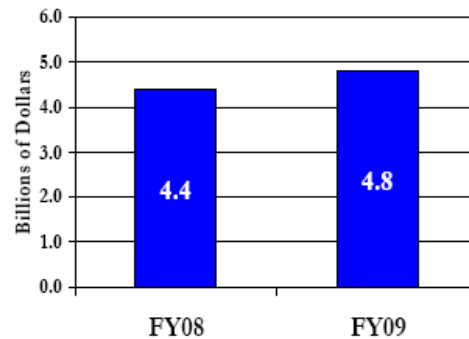
# What it takes.....

## Readiness

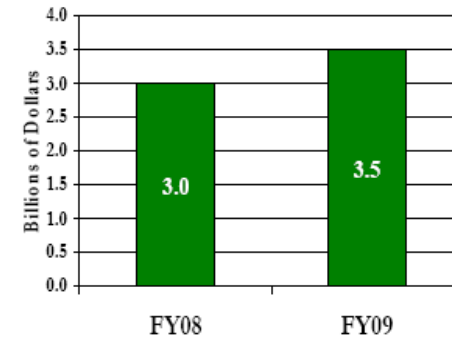
### Ship Operations



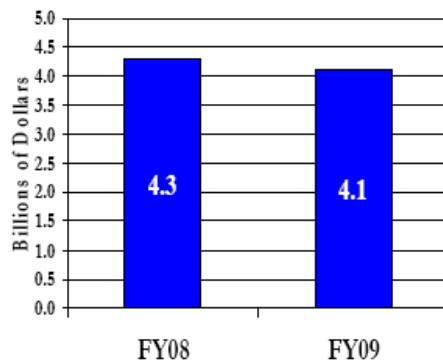
### Flying Hour Operations



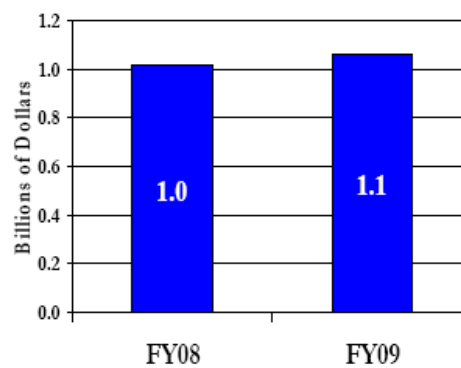
### Marine Corps Operations



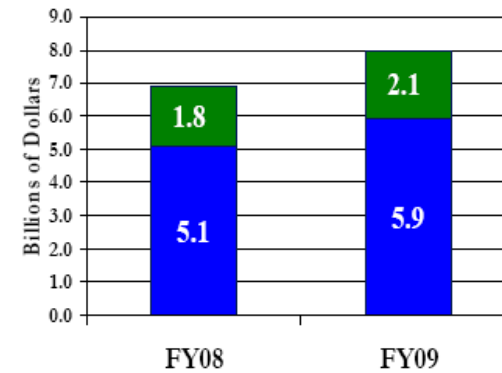
### Ship Depot Maintenance



### Aircraft Depot Maintenance



### Base Support



 USN

 USMC

# Aircraft Requirements

## Aviation Quantities

	FY08		FY09	
JSF	6		8	
F/A-18E/F	24		<del>20</del>	23
EA-18G	18		22	
MV-22B	21		30	
AH-1Z/UH-1Y	<del>20</del>	15	<del>25</del>	20
MH-60S	18		18	
MH-60R	27		31	
E-2D AHE	3		3	
C-40A	0		<del>1</del>	2
T-6A/B(JPATS)	44		44	
KC-130J	4		2	
VH-71	0		<del>4</del>	0
MQ-8B (VTUAV)	3		<del>5</del>	3
<b>TOTAL</b>	<del>188</del>	183	<del>213</del>	206

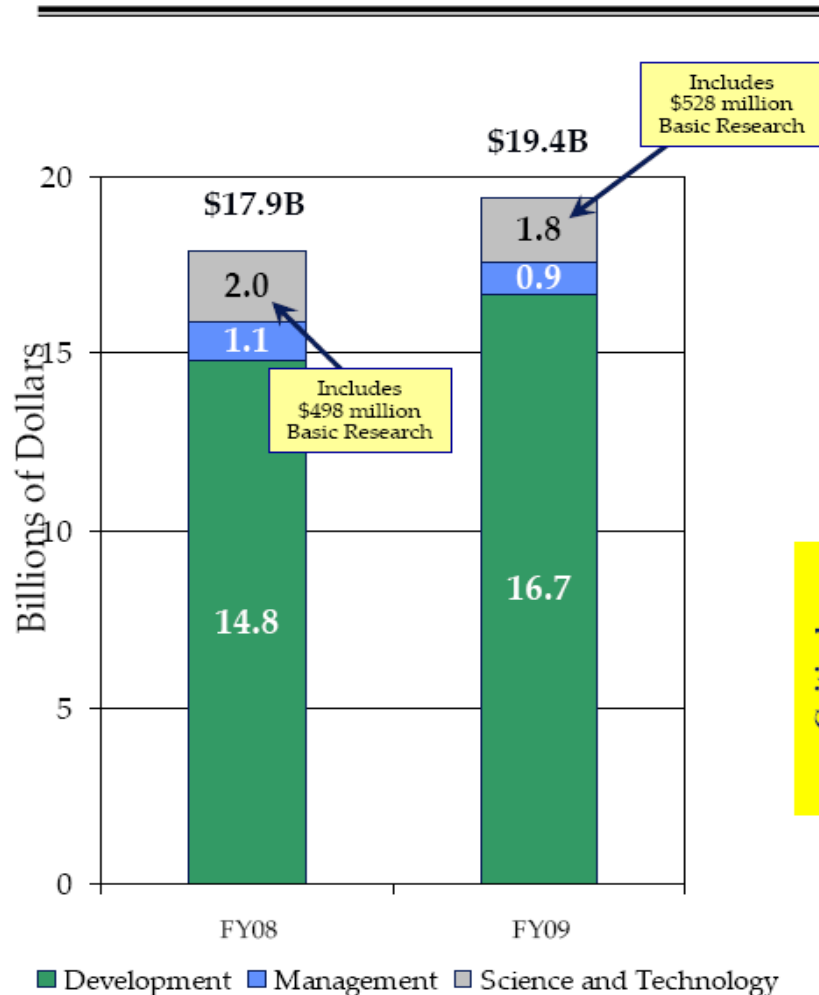
# Weapon Requirements

## *Missiles and Munitions Quantities*

Quantity Procured	FY08	FY09
TACTOM	394	207
JSOW	416	496
JDAM	1,145	169
TRIDENT II	12	24
AMRAAM	78	147
AARGM	29	39
AIM-9X	189	205
Standard Missile	75	70
RAM	90	90
ESSM	85	86
Lightweight Torpedoes	133	120
Heavyweight Torpedoes	84	84

# Investment Portfolio

## R&D Investment



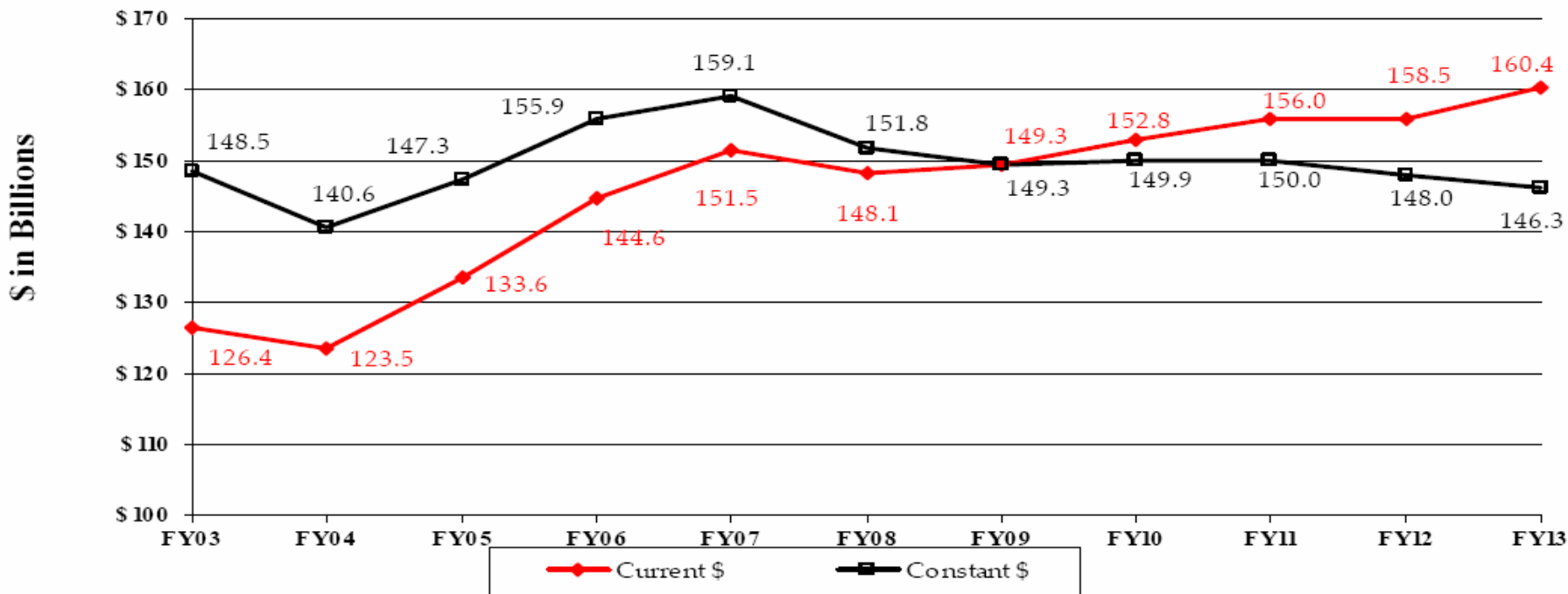
Critical Aviation Programs

Critical Shipbuilding Programs

Major Systems (\$M)	FY08	FY09
Joint Strike Fighter (F-35)	1,868	1,533
MMA (P-8A)	862	1,132
VH-71	225	1,048
CH-53K	388	570
TUAV / Endurance UAV	178	526
E-2D AHE	792	484
EA-18G	278	129
MV-22B	115	68
DDG-1000	514	449
LCS	304	371
CVN-21	229	262
Virginia Class SSN	244	167
CG(X)	222	370
C4I	1,804	1,760
JTRS	835	835
EFV	247	316

# Budget History

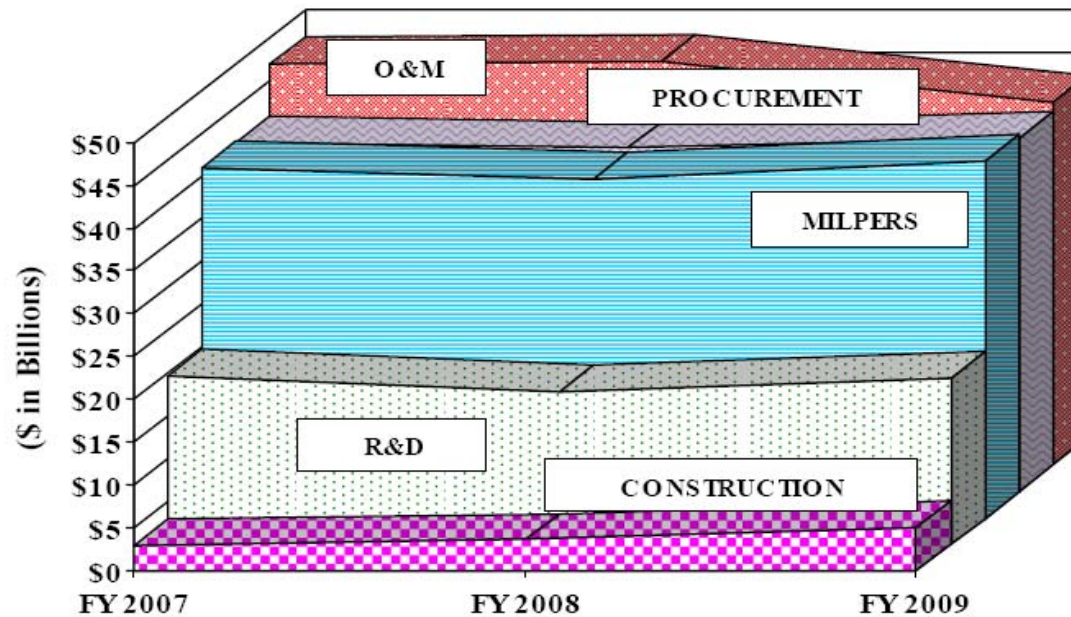
Figure 2 - Department of the Navy Topline FY 2003 - FY 2013



Note: FY 2003–2008 includes baseline, supplemental appropriations, transfers, and GWOT enacted. FY 2009– 2013 is baseline only. Black line is in constant FY 2009 dollars.

# Budget Trend Line

Figure 3 - Trendlines FY 2007 - FY 2009

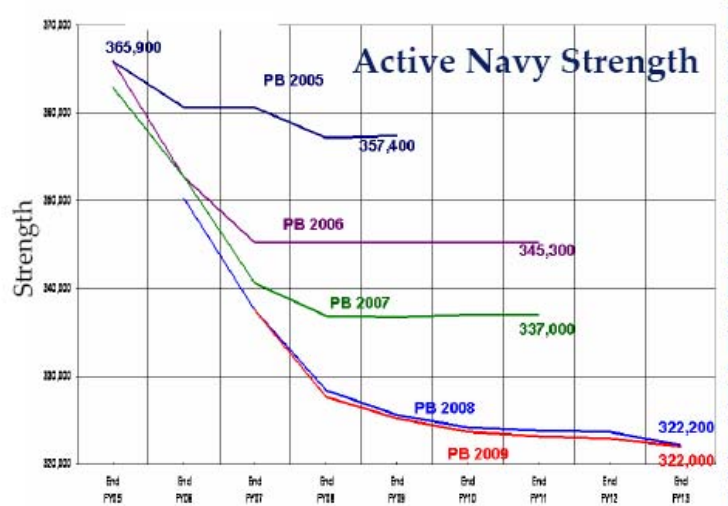


Note: Shown in FY 2009 constant dollars. FY 2007 and FY 2008 include baseline, supplemental appropriations, transfers and GWOT enacted. FY 2009 is baseline only.

Back-Up

# Size of Force

## Military Personnel and End Strength



### Stabilizing the Force

- Reaching desired end state
- Increased recruiting
- Targeted retention
- Continued Active/Reserve Integration

### Sizing for the Future

- Right size the force
  - FY 2011 end strength 202,000
  - FY 2009 end strength 194,000
- Growth is funded in baseline
- 3 balanced globally sourced MEFs
  - Reduces stress on force



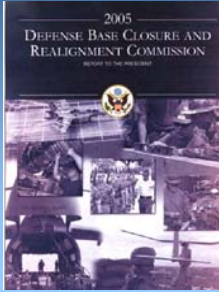
# Legacy ATE Retirement

- Anticipated dates for completing removal of I-Level stations:
  - EOTS FY-09
  - RSTS FY-07 (USS Enterprise FY08 availability)
  - DTB FY-09
  - NEWTS FY-09
  - IMUTS FY-08
  - TMV FY-09
  - HTS FY-09
  - IATS FY-09
  - ARM-146 FY-10
  - CAT IIID FY-09
  - RADCOM FY-09
- PMA260 providing QTY message on scheduled and planned Legacy ATE removals

# Fleet Readiness Centers Overview

1

## COMPLIES WITH BRAC 2005 LAW



- Disestablish & Reestablish I-Levels & Depots into Fleet Readiness Centers
- Depot Capability Forward
- Mandated 6 Geographically Aligned Fleet Readiness Centers
- Mandates Savings

2

## UNIFIES OFF-FLIGHTLINE MAINTENANCE ACTIVITIES

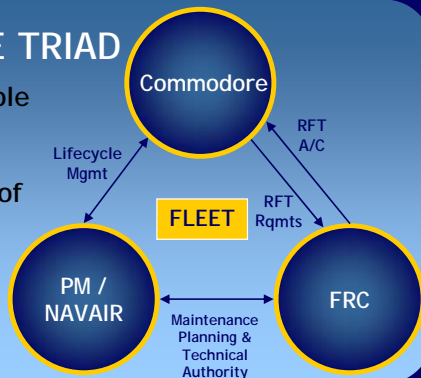
- COMFRC OPCON with CNAF
- COMFRC ADCON with Commander NAVAIR



3

## SUPPORTS ENTERPRISE TRIAD

- Commodores: Fleet Leadership Role
- NAVAIR: Engineering & Logistics Technical Authority
- PMs: Lifecycle Mgmt & Definition of Maintenance Plan
- NAVSUP/ICP: Supply System Authority
- MAG & MALS: Chain of Command Remain the Same



4

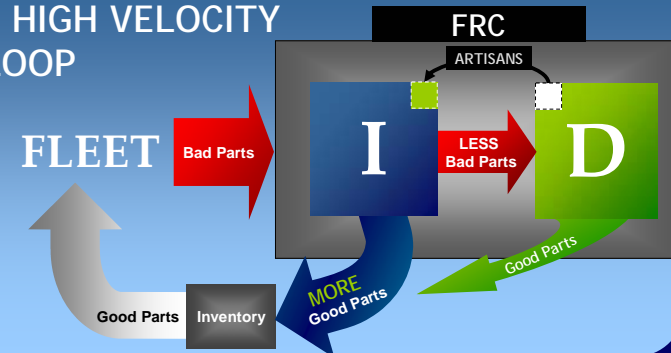
## MISSION:

*FIX IT ONCE, FIX IT RIGHT, FIX IT ON TIME!*

FRCs produce relevant quality airframes, engines components, support equipment and provide services to meet the Naval Aviation Enterprise's Aircraft Units Ready-For-Tasking (RFT) entitlements at improved efficiency and reduced cost

5

## ENABLES HIGH VELOCITY REPAIR LOOP



6

## MAXIMIZES COMBAT READINESS AT THE RIGHT COST

*- Implementing a metrics driven operation -*

- Reduces repetitive activities
- Reduces work in process
- Reduces turnaround time
- Reduces cost of operation



# Roadmap to FOC

## -Major Milestones-

