



NDIA Automatic Test Committee Navy/Marine Corps (Air) Liaison Reports

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407 306-4338

The CASS Family



- Mainframe CASS

Qty
553

TPSs
2,408



- RTCASS Initial Production

6

Few



- RTCASS

160

781



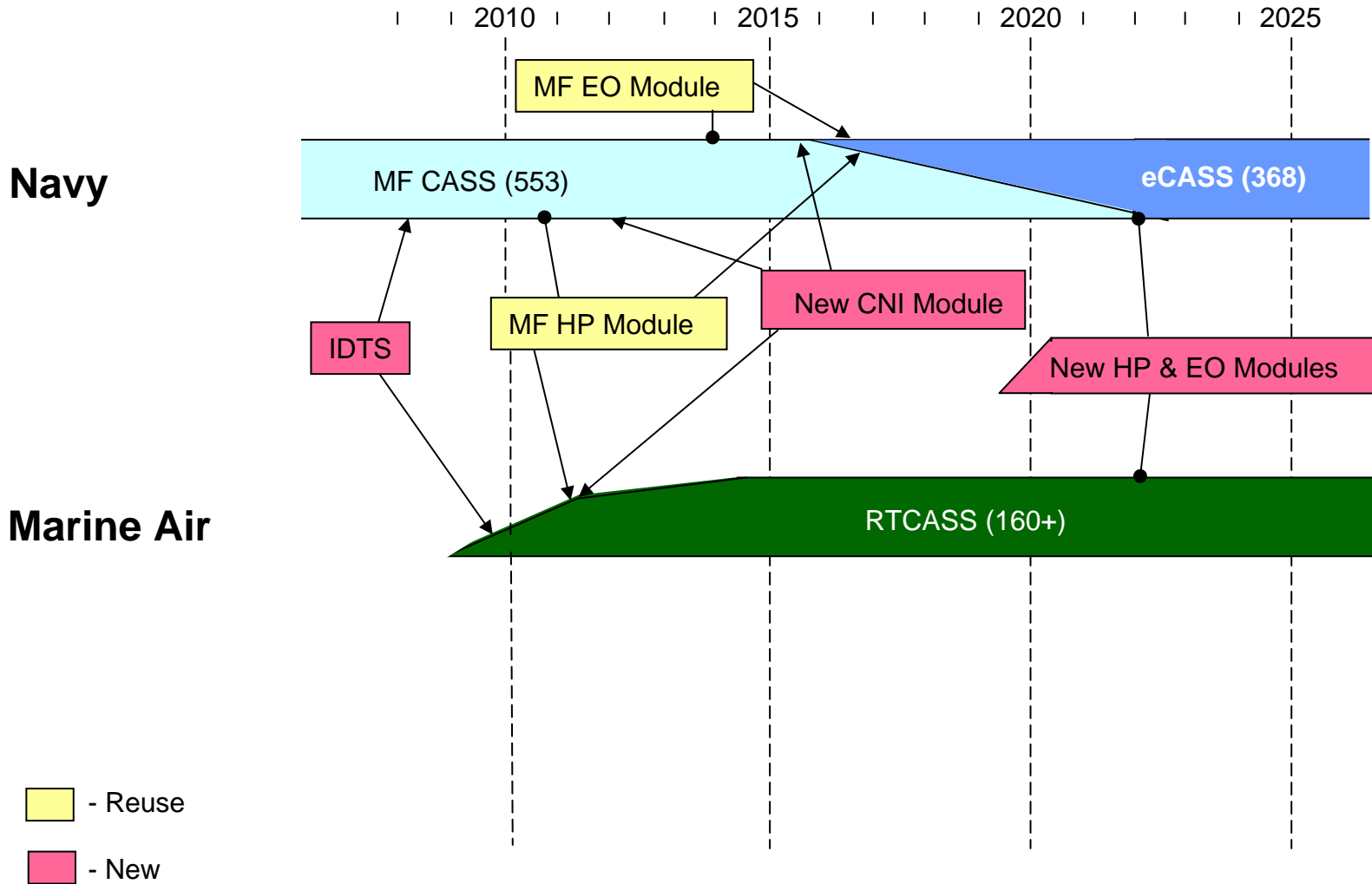
- eCASS

382

1,100

(notional)

CASS Program Roadmap



Mainframe CASS Status

- Oldest stations now 18 years old
- Planning its replacement – making minimal changes to the system
- Depot support:
 - CASS PBL contract awarded to Lockheed Martin - November 2008
 - Support commitment in place through 2015 – we will need to support longer
- Begin to replace CASS with eCASS in 2016
 - 60 to 80 CASS stations per year will be replaced 2015 – 2021+ (depending on ship availability)
 - Some sort of depot support will be put in place 2016 ~ 2021



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 2009

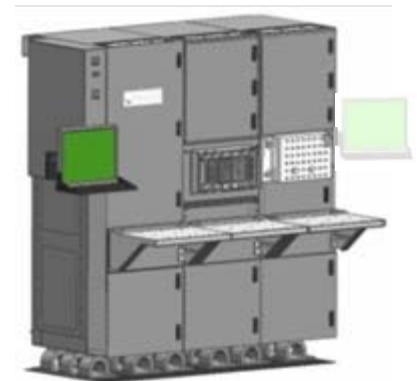
RTCASS Status

- Currently in Operational Test
- Plan to begin fielding early 2009
- Will be in production through 2011
 - Supports AV-8B, EA-6B, V-22 and F/A-18
 - H-1 and VH-71 support being added
 - F-18 FMS procurement requirements being added starting in 2008
- Planning depot support similar to mainframe CASS
- Integrating Mainframe CASS High Power module (available 2010)
- Will integrate the new CASS CNI ancillary (available 2010)
- Initial Delivery/Fielding to Commence:
 - AV-8B/EA-6B 2Q '09
 - V-22 (including Air Force) 2Q '09
 - F/A-18 2Q '09
 - H-1 4Q '10



eCASS Status

- RFI-C release August '08
- Draft RFP projected release date December '08
- Industry Day 3 weeks after draft RFP release
- Final RFP projected release date February '09
- Award late summer/early fall '09



(notional)

Future CSE Acquisition Opportunities

Common Video Borescope Set :

- Video borescope required by Fleet O- and I-level maintainers to inspect interior engine components and airframes for defects, FOD, and corrosion. Unit will be capable of storing images for further analysis.
- Several prototype units developed, demonstrated, and evaluated from June 2005 through May 2008 under a competitive Broad Agency Announcement
- RFP planned for release in December 2008 with a March 2009 contract award.



Sample
Prototypes

Thermal Imaging NDI System:

- Planned FY10 procurement to modernize NDI inspection techniques available to the Fleet.
- Item will measure thermal differences on inspection surfaces to detect defects over a larger surface area. Heat is applied through non-contact methods to measure infrared radiation. High resolution camera will allow greater distance from target. Will also allow for more target background to be averaged into temperature readings without a loss of temperature measurement accuracy.
- Current fleet capability only allows for small area inspections. Item will be used to inspect larger areas of aircraft fuselage, decreasing downtime. Item could be a potential O-Level expeditious inspection tool.

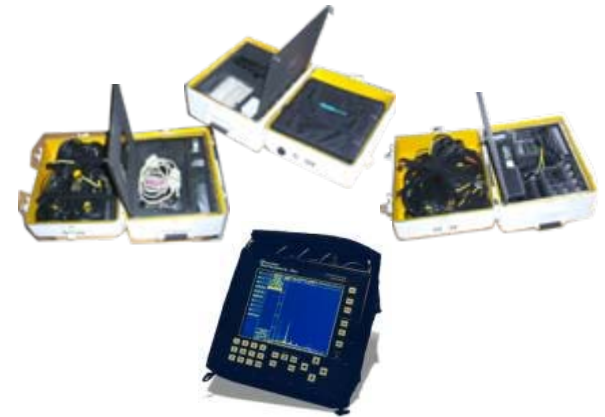


Sample COTS
Solution

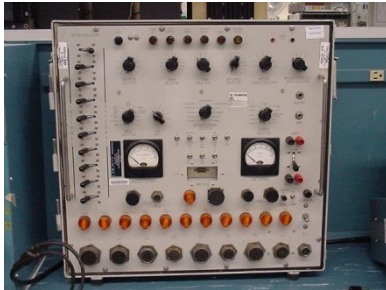
Future CSE Acquisition Opportunities

Next Generation Vibration Analysis Test Set:

- Vibration Analysis Test Set capable of performing dynamic balancing of propellers, rotor systems, and shafts to support both fixed and rotary wing aircraft. The Next Generation Vibration Analyzer will collect, process and display vibration data for airframes, engines, and gearboxes.
- Competitive procurement currently prioritized to start in FY10.



Legacy Test Set
Shown



Legacy Test Set
Shown

Replacement Aircraft Intercommunications Test Set:

- Future USN procurement to provide intermediate level testing and troubleshooting for individual modules of the AN/AIC-14 & -14A Intercommunication Systems by providing fault verification and detection of wiring and electrical components for repair.
- Sources Sought Notice # 68335-08-RFI-0912 released in FY08.
- Competitive procurement currently prioritized to start in FY11.

Summary

- **CASS budgets are still well supported by OPNAV and Congress.**
- **Mainframe CASS is in sustainment phase**
 - Support planned through 2015 (will need to support until 2021)
- **Major Legacy ATE will be out of USN/USMC fleet inventory by 2012**
- **CASS program support requirements continue to evolve**
 - New – UH-1Y/AH-1Z, MH-60R/S, CH-53K, VH-71, EA-18G
 - Going away – S-3, AV-8B, F/A-18A/B/C, E-2C, Navy EA-6B (2012), SH-60B/F
- **USN improving its SRA test and repair capability**
- **RTCASS is in production**
 - New 2010/11 production contract for additional required quantities

Summary

- **eCASS on track for development and fielding to replace Mainframe CASS**
- **Other News**
 - **Next Generation Automatic Test System Workshop inputs due December 12th**