

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

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# Agenda

- PMA-260 Organization
- CASS Initiatives
- RTCASS Overview
- eCASS Overview
- Questions

# PMA260D Current Organization

- CAPT Brian Jacobs assumed Command of the Naval Aviation Support Equipment Program Office, NAVAIR PMA260, on 30 May 2014
- Chris Giggey, DPM, PMA260D has overall responsibility for ATS acquisition and policy
  - CDR Allen Blaxton, ADPM, PMA260DX is the Deputy to PMA260D and performs the roles of CASS Officer and XO
  - Ed Smetana, ADPM, PMA260DA is the Deputy to PMA260D and performs the planning and policy role
- Team Leads:
  - CDR JR Nash, for eCASS and TPS Migration
  - Sam Winters, for CASS, RTCASS and TPS Offload
  - Jeff Allen, for PEMA, OMS and CCTARS
  - Tony Conard, for Jacksonville Site Lead
  - Nancy McQuillan, for Lakehurst Site Lead (Tony Geneva retired)

# Mainframe CASS Initiatives

- Replacing the obsolete CASS Internal Magneto-Optical Drive, Internal Hard Drive, and Enhanced External Hard Drive (EEHD) Ancillary Set
  - Two new solid state hard drives and one DVD media drive, all internal
  - TPSs will be delivered on CD/DVD media
- CASS EO Improvements:
  - Removing components no longer required
  - Replacing the obsolete laser and other components for reliability improvement
  - Considering a future EO Module replacement program (2020+)
- AGCS Replacement:
  - Replace the obsolete CASS AGCS for FMS customers
  - Effort will include an internal eCASS solution and an externally mounted enclosure variant for CASS
- RTCASS, EO, HPDTS, IDTS, ADU and MPSRD
  - Upgrades to hardware and/or operating system for IA compliance

# Mainframe CASS Initiatives (Con't)

- Established a new Program of Record (PoR) for a High Speed Subsystem (HSS) Ancillary:
  - To address support for a range of emerging high speed buses (>50 MHz) and real time testing requirements
  - Ancillary Equipment -- external on CASS -- likely internal on eCASS
  - V-22, F-18E/F, E/A-18G, and P-8 all have application in process
- CASS/RTCASS PBL competition underway -- Proposal submittal date 02 May 2015
- CASS will begin to be replaced by eCASS in 2017

# RTCASS Overview

- RTCASS and High Power Stations
  - 165 systems have been fielded
  - CASS TPSs support 740+ UUTS on RTCASS/RTCASS-HP
  - Computer upgrade in work
- RTCASS CLS Contract
  - 1 option year remaining (Apr '15 – Apr '16)
  - Anticipate future sustainment through CASS Family of Testers PBL
- RTCASS Depot
  - Upgraded analog and digital capabilities
  - Commercial cabinet and power system
  - First station delivered to NORIS in Dec '14
  - Initial Operation Capability 2 Apr '15
  - Currently converting 9 RTCASS stations into RTCASS Depot configurations with delivery in 2Q15-3Q15



**RTCASS**



**RTCASS High Power**



**RTCASS Depot**

# Still Making new CASS/RTCASS OTPSs

- ATS Lot 1 Offload to CASS Reliability Improvement Program
  - A complete hardware remake with improved test programs
- ALR 67v2 SRAs Offload to CASS (depot OTPS)
- H-53 AFCS Offload to CASS
- F-18 DTS Direct to CASS
- EA-18G ALQ 218 Direct to CASS
- P-8 ALQ 240, MAS, and SMS Direct to CASS
- H-60 MMR Radar, AAS-44C (FLIR), and ALFS ST/R Direct to CASS
- V-22 ABIU, NIU, WIU, RMU, DDMS, APU, ECU, IAP Direct to CASS
- H-/UH-1Y Mission Computer and HIAOC Direct to CASS
- T-45 EGI Direct to CASS

## **F-18 International Partners Contributing**

- ATS Depot OTPS Offload
- F-18 USSR and RMM
- AYK 14 Computer Offload to CASS
- F-18 Radar Altimeter (planned)

# eCASS RF Engineering Development Model





# eCASS Status

- The initial production Milestone Decision (MS “C”) was granted on 16 December 2013
  - 36 limited rate production units ordered at that time
  - 31 additional limited rate production units ordered January 31, 2015
  - Six stations have been shipped
  - Planning first full rate production buy summer 2016
- The CASS TPS “Migration” to eCASS began in September 2014
  - About 550 CASS TPSs will be “Migrated” to eCASS
- On target for 2017 fielding
- Planning to produce at least 270 more eCASS stations for USN and USMC through 2022

# eCASS Status (Cont.)

- eCASS includes a “CASS ATLAS Test Program” environment but adds the more modern “LabWindows/CVI Test Program” environment
- The E-2D Program will be developing the first “direct to eCASS” TPS applications
- Not originally planned, but F-35B (USMC) and F-35C (USN) will likely need I-level support using eCASS
  - Planning underway for an initial 22 LRCs
  - Target 2020 first aircraft carrier (CVN) deployment
  - Re-hosting LMSTAR depot level TPSs to eCASS
  - Have initiated an “early” LMSTAR to eCASS re-host demonstration as risk mitigation

# QUESTIONS