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
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


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