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

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Agenda

• PMA-260 Organization

• CASS Initiatives

• RTCASS Overview

• eCASS Status

• Questions
CAPT Brian Jacobs assumed Command of the Naval Aviation Support Equipment Program Office, NAVAIR PMA260, on 30 May 2014.

Chris Giggey left his DPM position in July 2015 – now at PMA281 (Common Control System).

Derwin “DEX” Hansard assumed the DPM role and 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.

Team Leads:
- Sean Demme, for eCASS, eCASS TPS Migration and CCTARS
- Sam Winters, for CASS, RTCASS and RTCASS-D
- Jeff Allen, for PEMA and TPS Offload
- Jeff Llewllyn, Electro Optic Test Systems
- Tony Conard, for Jacksonville Site Lead
- Nancy McQuillan, for Lakehurst Site Lead
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:
  - Replacing the obsolete multi wavelength laser and other components for reliability improvement
  - Extending the life and planning a camera replacement
  - Considering a future EO Module replacement program (2020+)

- AGCS Replacement – Modernized AGCS (M-AGCS):
  - Replace the no longer procurable CASS AGCS for FMS customers
  - Effort includes 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 cyber security compliance
Mainframe CASS Initiatives (Con’t)

• High Speed Subsystem (HSS) Ancillary Program of Record (PoR):
  – Addresses support for a range of emerging high speed buses (>50 MHz) and real time testing requirements
  – Ancillary Equipment – external on CASS/RTCASS – potentially internal solution on eCASS
  – V-22, F-18E/F, E/A-18G, E-2D, H-53K, H-60, and P-8 all have application in process or expected

• CASS/RTCASS PBL competition underway – Response date 18 June 2015, Navy expects in place November 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 10 RTCASS stations into RTCASS Depot configurations with final delivery in 4Q15
Still Making New CASS/RTCASS OTPSs

- ATS Lot 1 Offload to CASS Reliability Improvement Program
- ALR 67v2 SRAs Offload to CASS
- H-53 AFCS Offload to CASS
- F-18 E/F DTS Direct to CASS
- EA-18G ALQ 218 Direct to CASS
- P-8 ALQ 240, 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, VSLED Direct to CASS
- H-/UH-1Y Mission Computer and HIAOC Direct to CASS
- T-45 EGI Direct to CASS
- MQ-4C Triton – In planning (may be Direct to eCASS)
- ALQ 67v3 – possible 2018 start (likely Direct to eCASS)
eCASS RF Engineering Development Model
eCASS Status

• LRIP I, II & III Production Underway
  – 67 limited rate production units on order
  – All 18 LRIP I stations sold-off, 14 installed
  – 4 of 20 LRIP II stations sold-off

• Full Rate Production Planning Underway
  – First two lots planned for Q3CY16
  – Last five lots planned for Q2FY18
  – Plan to produce at least 270 more eCASS for USN & USMC through 2022

• DT-C1 Completed October 22, 2015

• DT-C2 TRR Completed October 26, 2015, DT-C2 Starts Nov 2

• The CASS TPS “Migration” to eCASS Underway
  – About 550 CASS TPSs will be migrated to eCASS
  – 30 TPSs migrated during SDD program phase

• On target for 2017 EO/HP fielding to fleet
eCASS Status (Cont.)

• 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 Line Replaceable Components (LRCs)
  – Target 2020 first aircraft carrier (CVN) deployment
  – LM-STAR depot level TPSs would be migrated to eCASS
  – Demonstration LM-STAR to eCASS TPS migration for the Vehicle Management Computer (VMC) completed in October 2015
  – National Instruments TestStand test sequence engine and LM-STAR “support handlers” for instruments required by the VMC integrated into eCASS

• The E-2D Program will be developing the first “direct to eCASS” TPS applications

• eCASS Automated Gimbal Control System (AGCS): PCA on the embedded AGCS is underway
QUESTIONS