

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

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Tony Minei

Anthony.j.minei@lmco.com

407 306-4338

Agenda

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

PMA260D Current Organization

- CAPT Brian Jacobs – Program Manager, Naval Aviation Support Equipment Program Office, NAVAIR PMA260
- Derwin “DEX” Hansard – Deputy Program Manager, overall responsibility for ATS acquisition and policy
- CDR Ramiro “Flo” Flores, 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
 - CAPT Danny Day for High Speed Subsystem Ancillary Kit (HSS-AK)
 - Sam Winters, for CASS, RTCASS and RTCASS-D
 - Jeff Allen, for PEMA and TPS Offload
 - Jeff Llewellyn, 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
 - 3 new solid state hard drives (2 removable) and one DVD media drive, all internal
 - TPSs and station software 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+)
- 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 Ancillary Kit (HSSub-AK) 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
 - V-22, F-18E/F, E/A-18G, E-2D, H-53K, H-60, and P-8 all have TPS applications in process or expected
- CASS/RTCASS PBL Acquisition – Sole-source negotiations underway. Navy expects in place end of April 2016
- 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
 - Expires April 2016
 - Being replaced by CASS/RTCASS 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
 - Converted 10 RTCASS stations into RTCASS D configuration



RTCASS



RTCASS High Power



RTCASS Depot

Still Making New CASS/RTCASS OTPSs

CASS

- ATS Lot 1 Offload to CASS Reliability Improvement Program
- ALR 67v2 SRAs Offload to CASS
- H-53 AFCS Offload to CASS
- F-18E/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)

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

- LRIP I, II & III Production Underway
 - 67 limited rate production units on order
 - All 18 LRIP I & 18 LRIP II stations sold-off, 24 installed
 - LRIP III Production started
- Full Rate Production Planning Underway
 - First two lots planned for Q4CY16
 - Last five lots planned for Q2FY18
 - Plan to produce at least 274 more eCASS for USN & USMC through 2022
- DT-C1 Completed October 22, 2015
- DT-C2 Completion expected May 2016
- FCA/PCA Competition expected October 2016
- Navy awarded eCASS Interim Contractor Support – base + 1 year option

eCASS Status (Cont.)

- 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
- Not originally planned, but F-35B (USMC) and F-35C (USN) will likely need I-level support using eCASS
 - Up to 70 Line Replaceable Components (LRCs) candidates identified
 - I-level TPS Planning underway
 - OPNAV desires some capability by 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) successfully completed in October 2015
- The E-2D Program is developing the first “direct to eCASS” TPS applications

QUESTIONS