

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

November 01, 2015

Rick Freeman

rick.freeman@lmco.com

407 306-6690

Agenda

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



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 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