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

September 16, 2018

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Agenda

- PMA-260 Organization
- CASS Initiatives
- RTCASS Overview
- eCASS Status
- Questions
Capt. Thomas Dall – Program Manager, Naval Aviation Support Equipment Program Office (NAVAIR PMA260)

Mark Lysaght – Principal Deputy PM (NAVAIR PMA260A)

Derwin “DEX” Hansard – Deputy Program Manager for ATS, overall responsibility for acquisition, sustainment, and policy (NAVAIR PMA260D)

Sean Demme – Assistant DPM to PMA260D (NAVAIR PMA260DA)

Team Leads:

– Sean Demme, for CASS/RTCASS/eCASS, eCASS TPS Migration and CCTARS
– Jeff Allen, for PEMA and TPS Offload
– Jeff Llewellyn, Mission Equipment (Electro Optic and ancillaries)
– Tony Conard, for Jacksonville Site Lead
– Jim Deffler, for Lakehurst Site Lead
– Elliott Lytle, for Cherry Point Site Lead and CASS FoT FST Lead
– Tim Davis, for CASS FoT S/W Support Activity (SSA) Lead
Mainframe CASS Initiatives

• CASS Electro-Optical Improvements:
  – Replaced the obsolete multi wavelength LASER and other components for reliability improvement – USN and FMS fielding is complete
  – Extended the life of the existing camera and planning a camera replacement

• Next Generation CASS EO
  – Initiative to replace Third Generation EO (EO3) consoles with modernized version, commonly referred to as Forth Generation EO (EO4)
  – RFI posted 15 November, 2017
  – Status Update September 2018
  – RFP target February 2019

• Replacement of Internal Magneto-Optical (MO) Drive, Internal Hard Drive, and Enhanced External Hard Drive (EEHD) Ancillary Set with DVD media and solid state hard drives – U.S Navy complete, FMS nearly complete
  – This will be the final major change to the CASS test system
Mainframe CASS Initiatives (Con’t)

- High Speed Subsystem Ancillary Kit (HSSub-AK) Program of Record (PoR):
  - Support for emerging high speed buses and real time testing requirements
  - Ancillary Equipment – external on CASS/RTCASS; may be internal with eCASS
  - V-22, F-18E/F, E/A-18G, E-2D, H-53K, H-60, P-8, and F-35 all have TPS applications in process or expected

- CASS/RTCASS PBL Acquisition – Seven year contract awarded in May 2016

- CASS sundown began in 2017 and will be out of Navy/Marine Corps I-level inventory by end of 2025
RTCASS Overview

• RTCASS and High Power Stations
  – 165 systems fielded
  – CASS TPSs support 740+ UUTS on RTCASS/RTCASS-HP
  – Computer upgrade nearly complete
  – Converting tech manuals to IETM format

• RTCASS PBL Support
  – Combined with CASS PBL contract

• RTCASS Depot
  – Converted 10 RTCASS stations into RTCASS-D configurations located at Jacksonville, Crane, NORIS, and Cherry Point.
  – Upgraded analog and digital capabilities
  – Commercial cabinet and power system
  – Initial Operation Capability achieved 2 Apr ’15
Still Making New CASS/RTCASS OTPSs

- HTS Offload to CASS (AV-8 and F-18E/F/G systems)
- H-53 AFCS Offload to CASS
- **ALQ-99 LBT SRAs Direct to RT-Depot**
- 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 IAP, DTU and VSLED Direct to CASS
- H-/UH-1Y Mission Computer and HIAOC Direct to CASS
- T-45 EGI Direct to CASS
- MQ-4C Triton Depot – MFAS, SIGINT and AMP Direct to CASS FoT
- **E-2D HF Radio**
- **E-2D Depot AFCM, RPCS, RIU, RIA Direct to CASS**
- **APR-39 Direct to CASS**
- **CH-53K ADC, IBU, ECU, AC/DC PDU 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 Configuration
eCASS Status

- LRIP I, II & III Production complete
  - 67 limited rate production units completed
  - Upgrades and fielding ongoing
- Full Rate Production 1 awarded Feb 2017
  - 70 production stations ordered, including 5 FMS stations
  - ~20 stations completed
  - Station deliveries planned for FY18 and FY19
  - Interim Contractor Support 2 included in award, base plus 3 option years
- Full Rate Production 2 awarded Aug 2018
  - 26 production stations ordered along with related equipment and kits
  - 200+ eCASS stations anticipated for USN, USMC, and FMS through 2023
eCASS Status (Cont.)

• The CASS TPS “Migration” to eCASS Underway
  – About 523 CASS TPSs will be migrated to eCASS in 3 Blocks
  – Block 1 Complete, Block 2 will complete this year, and Block 3 will complete in 2020

• eCASS began replacing CASS in the field last fall
  – First eCASS Fleet site – NAS Oceana, Virginia Beach, VA – Sept 2017
  – All CASS will be out of I-level inventory by end of 2025
• Not originally planned, but F-35B (USMC) and F-35C (USN) now require I-level support using eCASS
  – 54 Line Replaceable Component (LRC) candidates identified
    • Focused on 19 LRCs initially
  – Test requirements and eCASS test capability gap analysis under way
  – Targeting some capability by 2021 first aircraft carrier deployment
  – LM-STAR depot TPSs will be upgraded for eCASS I-level use

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