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

March 29, 2017

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
  - CAPT Jacobs will retire this summer to be replaced by CAPT (sel) Tom Dall
- 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
  - LCDR Mangold for High Speed Subsystem Ancillary Kit (HSS-AK)
  - CDR Flores (acting), 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
  - Elliott Lytle, for Cherry Point Site Lead
Mainframe CASS Initiatives

• CASS EO Improvements:
  – Replacing the obsolete multi wavelength LASER and other components for reliability improvement – USN fielding nearly complete – FMS fielding underway
  – Extending the life of the existing camera and planning a camera replacement
  – Planning a future EO Module replacement program (2020+)

• 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 underway
  – Will replace about 150 MO TPS media at a typical CASS site with a single DVD TPS media
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, and P-8 all have TPS applications in process or expected

- CASS/RTCASS PBL Acquisition – Seven year contract awarded in March 2017

- CASS will begin to be replaced by eCASS in the field later this year
RTCASS Overview

• RTCASS and High Power Stations
  – 165 systems fielded
  – CASS TPSs support 740+ UUTS on RTCASS/RTCASS-HP
  – Computer upgrade installations are in progress by the USN in 2017

• RTCASS PBL Support
  – CASS/RTCASS PBL on contract May 2016
  – 5 years with 2 option years

• 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

- 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, 35 delivered
  – 25 LRIP III stations sold-off, 6 stations underway

• Full Rate Production 1 awarded Feb 2017
  – 67 stations ordered consisting of 2 lots
  – Station deliveries planned for FY18 and FY19
  – 5 FMS station order to be added in April 2017
  – ICS #2 awarded, base plus 3 option years

• Full Rate Production 2 Planning Underway
  – RFI released February 16th with responses due March 2nd
  – RFP expected Q4FY2017
  – Last five lots planned for Q2FY18
  – Plan to produce 211 eCASS stations for USN & USMC through 2022
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
- 54 Line Replaceable Component (LRC) candidates identified
- OPNAV desires some capability by 2020 first aircraft carrier deployment
- LM-STAR depot level TPSs would be migrated to eCASS
- eCASS capability and TPS Performance analysis project being considered
- 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