



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

# PMA260D Current Organization

- 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



**RTCASS**



**RTCASS High Power**



**RTCASS Depot**

# Still Making New CASS/RTCASS OTPSs

## CASS

- **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

## eCASS Status (Cont.)

- Not originally planned, but F-35B (USMC) and F-35C (USN) now requires 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

