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

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• PMA-260 Organization
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PMA260D Current Organization

- Capt. Thomas Dall – Program Manager, Common Naval Aviation Support Equipment Program Office, NAVAIR PMA260
- Derwin “DEX” Hansard – Deputy Program Manager, overall responsibility for ATS acquisition and policy
- **CDR Rob Burgess**, 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 Medford for High Speed Subsystem Ancillary Kit (HSS-AK)
  - CDR **Burgess** (acting), for CASS, RTCASS and RTCASS-D
  - Jeff Allen, for PEMA and TPS Offload
  - Jeff Llewllyn, Electro Optic Test Systems
  - Tony Conard, for Jacksonville Site Lead
  - Jim Deffler, for Lakehurst Site Lead
  - Elliott Lytle, for Cherry Point Site Lead and CASS FoT FST Lead
Mainframe CASS Initiatives

• CASS Electro-Optical Improvements:
  – Replacing the obsolete multi wavelength LASER and other components for reliability improvement – USN and FMS fielding is complete
  – Extending 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)
  – Draft RFP expected 3QCY18

• 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 nearly complete – Navy and FMS
  – Will replace about 150 MO TPS media at a typical CASS site with a single DVD TPS media
  – 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, and P-8 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
  – 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

- 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 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
  – First 3 stations completed in Mar 2018
  – Station deliveries planned for FY18 and FY19
  – Interim Contractor Support 2 included in award, base plus 3 option years

• Full Rate Production 2 Acquisition Underway
  – RFP posted August 18, 2017 with submittal October 10, 2017
  – Scope 211 eCASS stations for USN & USMC through 2022
  – Award expected September 2018
• 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 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 level TPSs will be migrated to eCASS

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