



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

December 8, 2010

Tony Minei

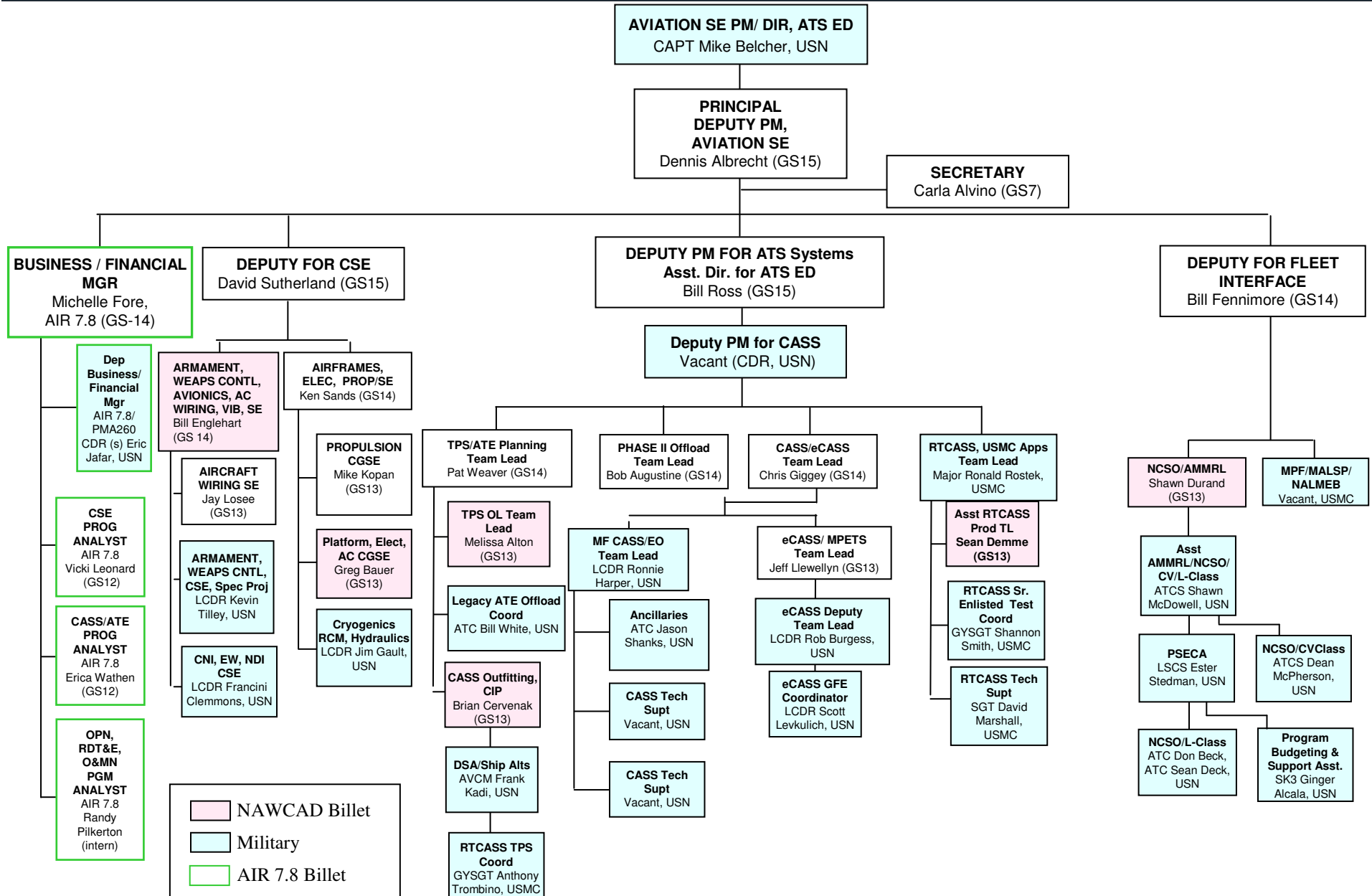
[anthony.j.minei@lmco.com](mailto:anthony.j.minei@lmco.com)

407 306-4338

# Agenda

- PMA-260 Organization
- CASS Overview
- Legacy ATE TPS Offload Status
- Emerging Platform CASS TPS Efforts
- Navy Items of Interest
- Questions

# PMA-260 Organization Chart



# Systems Engineers on Staff to PMA-260

- Robert “Bo” McCaffery: Class Desk for Common Support Equipment which includes all PMA260 policies, product acquisitions and sustainment support (e.g. Common Support Equipment "Yellow Gear" and Automated Test Systems)
- Kevin Dusch: Class Desk for Automated Test Systems which includes all PMA260 policies which apply to the ATE and TPS's. Also, the product acquisitions and sustainment class desk support for CASS Family ATE
- Jim Hobbs: Class Desk for RTCASS which includes the product acquisitions and sustainment class desk support for RTCASS
- LCDR Joe Montes: Class Desk for Common Support Equipment which includes all PMA260 policies which apply to the Yellow Gear. Also, the product acquisitions and sustainment class desk support for Common Support Equipment

# CASS Overview

- **RTCASS**

- IOC is complete for V-22, AV-8B, F/A-18, H-1 and EA-6B
- A new production contract was awarded in September 2010
  - Base quantity of 12 stations, with options for 12 stations in FY11 and 6-11 stations in FY12
- Integration of mainframe CASS High Power rack with RTCASS is complete
  - Began fielding in April 2010, estimated completion is March 2011
  - IOC declared on 2 June 2010 at MALS-14 Cherry Point
- NAVAIR will be integrating CNIAS with RTCASS – Fielding late 2011
- TPS Transport Status
  - 477 UUTs are currently supported in the field by RTCASS

- **NxOMS**

- An extensible general purpose communications framework which encapsulates the task of securely sending, routing and receiving data, exposing the functionality through an Application Programming Interface (API)
  - Open Architecture
  - Multi-Service
  - Multi-ATE
- Version 1.0.0.0 released on June 4, 2010 w/ RTCASS support
- Phase 2 started in September 2010

# RTCASS TPS Transport Status

CURRENTLY TRANSPORTED (FIELD) OTPSs		
PROGRAM	PLATFORM	OTPS QTY
AN/ALE-47	Multi	1
EA-6B ALQ-99 UEU SRA	EA-6B	1
EA-6B ALQ-99 UEU WRA	EA-6B	1
OFFLOAD APM-446 RSTS LOT 1/2/3	Multi	4
OFFLOAD ASM-614 ESTS EA-6B	EA-6B	1
OFFLOAD AV-8B EETS/HTS	AV-8B/Multi	12
CASS-CID-002	AV-8B	1
OFFLOAD AN/ARM-146	Multi	1
OFFLOAD AN/USM-467 EA-6B	EA-6B	2
OFFLOAD AN/USM-484 EA-6B	EA-6B	1
OFFLOAD AN/USM-686 IATS	F-18 PECULIAR	8
V22	V-22	12
OFFLOAD HPDT OJ-615	EA-6B	1
AH-1Z/UH-1Y AWIRT/CWIRT	H1	1
AN/APG-73 SRAs	F-18 PECULIAR	2
AN/APG-73 WRAs (PS, RDP, RR)	F-18 PECULIAR	3
OFFLOAD AN/USM-429 EA-6B	EA-6B	5
OFFLOAD AN/USM-429/484 EA-6B ORGANIC	EA-6B	1
OFFLOAD OJ-510	EA-6B	1
	<b>Subtotal</b>	<b>59</b>
<i>Currently Support 477 UUTs</i>		
OTPS TRANSPORT IN-WORK		
PROGRAM	PLATFORM	OTPS QTY
OFFLOAD GACT GRAD PLUS LOT 1/2	EA-6B	2
OFFLOAD AN/ASM-608	Multi	1
OFFLOAD AN/USM-467 EA-6B	EA-6B	5
OFFLOAD OJ-510	EA-6B	2
OFFLOAD AN/USM-484 F/A-18	F-18 PECULIAR	6
V22	V-22	1
F/A-18 MIDS	Multi	1
OFFLOAD AN/USM-470(V)1(LOT 1/2)	F-18 PECULIAR	3
OFFLOAD ASM-614 ESTS EA-6B	EA-6B	1
AN/ALQ-126B RF SRAs	Multi	1
OFFLOAD AN/USM-458 NEWTS	Multi	1
	<b>Subtotal</b>	<b>24</b>
<i>285 UUTs In Work</i>		

# CASS Overview

- **eCASS**

- Post Award Conference (PAC) held April 20, 2010
- Systems Engineering Readiness Review (SERR) for SRR held May 25 thru 27, 2010
- System Requirements Review (SRR) / System Functional Review (SFR) was held August 31 and September 1, 2010
- Logistic Guidance Conference, CMRS Guidance Conference and TDP Guidance Conference complete
- Schedule Risk Assessment (SRA) completed October 29, 2010
- Integrated Baseline Review (IBR) completed December 2, 2010
- Systems Engineering Readiness Review (SERR) for PDR scheduled for January 11, 2011
- Preliminary Design Review (PDR) scheduled for February 14, 2011

- **PEMA**

- To date has been procured under a "Brand Name" J&A
- Released RFI in May for Market Research and Analysis
  - Conducted tests on COTS ruggedized units to determine specification compliance
    - EMI Tested at Patuxent River
    - Environmental tested at Charleston
    - User evaluation at HSL-40 (H-60 squadron) Mayport
- Future contract strategy under review
- Will procure 2,000 plus per year

# CASS Overview

- **AGCS**
  - RFP released on June 9th.
  - Proposals due August 25<sup>th</sup>
  - Navy cancelled the procurement on November 10, 2010
- **CNIAS status**
  - The current acquisition strategy is in reviewed

# Legacy ATE TPS Offload Status

PHASE I			
ATE		AIRCRAFT	
APM-469	RSTS	S-3	Removed from I-Level
AN/USM-247	VAST	S-3, F-14 E-2	Removed from I-Level
AAM-60 (v)6	EOSTS	S-3	Removed from I-Level; P-3 using (v)2 version
AN/USM-614	ESTS	EA-6B, SH-60, S-3	Removed from I-Level; 2 left at NADEP
AN/USM-403	HATS	S-3	Removed from I-Level
APM-457	TTS HPOC	S-3	Removed from I-Level
AN/USM-604	EETS	AV-8B	Removed from I-Level; 1 left at CNATTU; 2 left at NADEP
AN/APM-446	RSTS	F/A-18, AV-8B	9 Remain at I-Level
AN/USM-629	EOTS	F/A-18	8 Remain at I-Level
OJ-615/ALM	TTS	EA-6B	7 Remain at I-Level
AN/USM-470(V)1	ATS	F/A-18	Removed from I-Level
AN/AWM-23	RFTS	F-14	Removed from I-Level
AN/AWM-23	LFTS	F-14	Removed from I-Level
AN/AWM-23	C&DTS	F-14	Removed from I-Level
AN/AWM-23	CTS	F-14	Removed from I-Level

PHASE II			
ATE		AIRCRAFT	
AN/USM-484	HTS	EA-6B	F/A-18 SH-60
AN/USM-467	RADCOM	EA-6B E-2C	SH-60
AN/USM-429	CATIID	EA-6B	E-2C
AN/USM-470(V)2	TMV	SH-60	
AN/USM-458	NEWTS	AV-8B, F/A-18	
OJ-510/ALM	DTB	EA-6B	
PHASE III			
ATE		AIRCRAFT	
AN/ASM-686 Lot 1	IATS	F/A-18	
AN/ASM-686 Lot 2	IATS	F/A-18	
AN/ASM-608	IMUTS	Various	
A/E24T-205	GACT/GRAD Actuators	E-2C, EA-6B, C-2	
AN/ARM-146A	AN/ARA-63	Various	
AN/ASM-167 & TS-2454A	AS/APC	EA-6B	
CAT IIID/HTS Orphans	OTPS-22	EA-6B	
ARM-200 (Marine only)	IATS	Various	

TPS development in-process

CASS TPSs being delivered

TPS effort completed

# Emerging Platform CASS TPS Efforts (Direct to CASS)

Platform	Lot	OTPS	I Level/Depot	IOC
V-22	1	9 OTPSs	I	Fielding
	2	8 OTPSs	I	5 Fielding 3 In DEV
	3	4 OTPSs	I	In DEV
	4	4 OTPSs	Depot	Jun 2012

Platform	OTPS	I Level/Depot	IOC
AA-1Z/UH-1Y	AWIRT/CWIRT	I	Fielding
	MC/HIADC	I	Dec 2013
	FCC	I	July 2011
MH-60R	ALFS	I	Sep 2013
	MMR	I	Jul 2013
	Acoustic Processor	I	Sep 2013
	TCDL	I	May 2014
MH-60R/S	ESM	I	Dec 2010
	MTS	I	Dec 2012
	MTS(TV)	I	Sep 2012

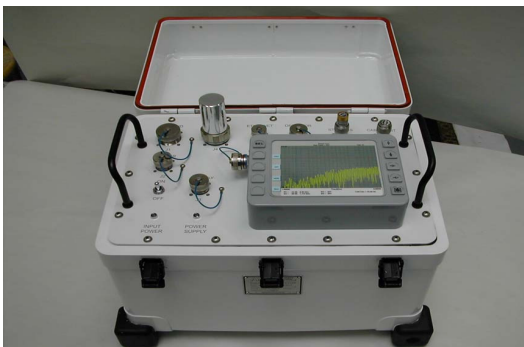
# Navy Items of Interest

## **AN/USM-708 Common RF Avionics Flightline Tester (CRAFT):**

- New O-level test set being developed to replace multiple legacy testers required to Link-4A data link, Automated Carrier Landing System (ACLS), TACAN, O-Level Sonobuoy RF data link, and VOR/ILS/GS/MB/LOC. *Provides a new Mode 5 IFF support capability for both aviation and surface Navy*
- IFF only variant (AN/USM-719) being developed to support surface Navy & USCG Mode 5 IFF applications. Prototypes fielded to support Mode 5 integration through FY 2011
- AIMS Certification Letter for the USM-719 was issued on 28 July 2009
- Contractor testing completed December 2010
- Government suitability & supportability testing and Fleet evaluation scheduled for F-18, EA-6B and H-60 and to be complete by mid-February 2011
- Planning on release for production following successful completion of government test and evaluation



## **AN/USM-713 Swept Frequency Test Set (SWFT):**



- O-level, portable test set that conducts Insertion Loss (IL), Return Loss (RL), Voltage Standing-Wave Ratio (VSWR) and Distance-To-Fault (DTF) measurements on aircraft RF transmission lines, in-line components and antennas. Replaces the AN/USM-482A and supports all aircraft not scheduled to receive JSECST
- All production units have been ordered. IOC was January 2010 and all deliveries completed as of July 2010
- All Fault Diagnostic Test Program Instructions (FDTPIs) completed & fielded for 17 aircraft T/M/S as of 30 November 2010

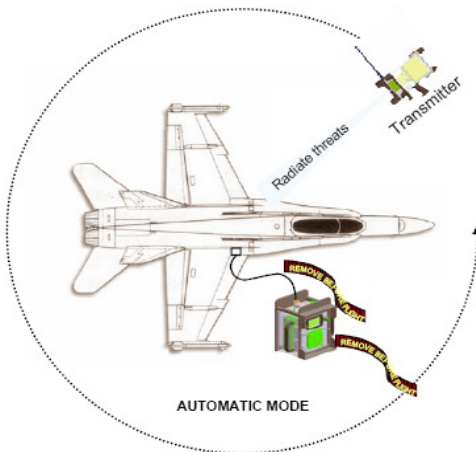
# Navy Items of Interest

## AN/ARM-206 Intermediate TACAN Test Set (ITATS):

- Test set used to perform I-Level maintenance to airborne TACAN systems (AN/ARN-84, -118, -136, & -153) in accordance with existing pubs and procedures. Replaces three legacy obsolete Navy/Marine Corps testers
- Successfully completed integration testing on the AN/ARN-136 & -153. AN/ARN-118 integration testing in progress
- Government suitability & supportability testing and Fleet evaluation to be complete March 2011
- Planning to release for production 2nd QTR FY11



## Handheld Radar Simulator:



- Small, lightweight RF threat radiator to provide a pre-flight check (GO/NO-GO) to ensure the aircraft's Radar Warning Receiver (RWR) system is operating properly to detect expected threats
- Initially being developed for F/A-18 E/F ALR-67(V)3 Radar Warning Receiver support only
- Contract awarded to AGT INC, a 8A, 100% tribally owned entity, on 09 July 2008. AGT partnering with AAI Corporation
- Contractor testing commenced in July 2010 with government testing scheduled for January 2011 through April 2011
- Production decision currently scheduled for May 2011

# Navy Items of Interest

## AN/USM-715 Rocket Launcher Tester:

- O and I-level test set used with the 2.75" and 5.0" Airborne Rocket Launchers. Used to check for the presence of a safety ground on the launcher firing lines as well as checking the intervalometer fire pulse amplitude and pulse width, i.e., perform verification/confidence check of the pod
- Designed & developed by NAWCAD AIR-4.8.6 Indianapolis Detachment via a MOA with PMA260
- All testing successfully completed and production decision made 15 April 2010
- Fleet deliveries scheduled for December 2010 through October 2011



## Next Generation Software Loader:

- Replaces Navy's current Common MLVS with unit capable of uploading/verifying OFPs and User Data Files via single point or direct loading at O- and I- levels. Will support emerging enhanced bus capabilities
- Working with Hill Air Force Base and NAWCWD China Lake to develop a Navy variant of USAF CAPRE to be hosted on hardware that meets all USN operational and environmental requirements for use on a flight deck.
- USAF software development efforts and China Lake integration efforts planned as follows:
  - Block 1 (legacy applications) for September 2011 to May 2012
  - Block 2 (new applications) for July – November 2012
  - IOC for initial Block 1 applications planned for June 2012





QUESTION?

