



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

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CASS Overview

- **RTCASS**

- Final Operational Test report received 10 June 2009
- 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

- **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
 - *DoD approved (In work)
- Version 1.0.0.0 released on June 4, 2010 w/ RTCASS support
- Phase 2 scheduled to start in September 2010

CASS Overview

- **eCASS**

- Post Award Conference (PAC) held April 20, 2010
- Systems Engineering Readiness Review (SERR) held the 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

- **AGCS**

- RFP released on June 9th.
- Proposals due August 25th
- Award expected 4th Qtr 2010

- **PEMA**

- To date has been procured under a "Brand Name" J&A
 - Released RFI in May for Market Research and future unit demonstration
- EMI Tested at Patuxent River
- Environmental tested at Charleston
 - User tested at HSL-40 (H-60 squadron) Mayport
- Now deciding future contract strategy
- Will procure 2,000 plus per year

CASS Overview

- **CNIAS status**

- CNIAS System Design and Development successfully completed on 5/28/2010
- The Capabilities Demo provided Link 16 Mode 1 and TACAN Test Cases running on CASS with a MIDS LVT, and MIDS OTH Prototype Mod Kit
- RFP for the new CNI Ancillary Set (CNIAS) LRIP & production was submitted on 7/23/2010
 - (3) FAT Units
 - (50) production
 - MIDS-LVT TPS Upgrade
 - CIT TPS Upgrade
 - IFF Waveform Porting
- Anticipated Low Rate Initial Production Award – Nov 2010



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

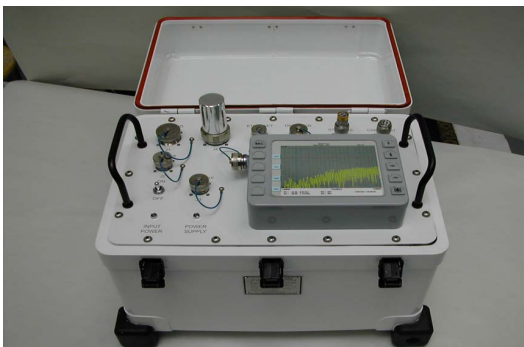
Navy Items of Interest

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
- Concurrent contractor and government testing is in-process
 - TEL addressing Sonobuoy & Link-4 issues. All other functions passed contractor testing
 - Completion of government testing pending aircraft availability
- Planning on release for production 1st QTR FY11.



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.
- Fault Diagnostic Test Program Instructions (FDTPIs) complete for 15 aircraft T/M/S. FDTPIs for 2 remaining T/M/S aircraft to be completed by November 2010.

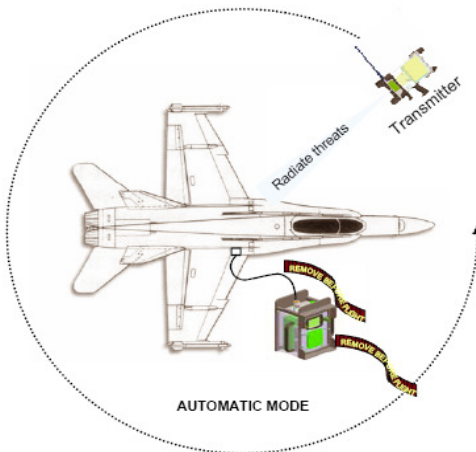
Navy Items of Interest

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.
- ITATS currently undergoing government re-test to verify that issues identified during initial government test & evaluation have been satisfactorily resolved.
- Planning to release for production 1st 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 October 2010 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 March 2012.



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 February 2011 to April 2012
 - Block 2 (new applications) for July – November 2012.
- IOC for initial Block 1 applications planned for January 2012





QUESTION?

