Agenda

- PEO Combat Support & Combat Service Support (CS&CSS)
  - Organization
- Test Measurement & Diagnostic Equipment (TMDE) Overview
  - Next Generation Automatic Test System (NGATS) Overview
  - NGATS
    - NGATS Shelters
    - NGATS Mission Areas
    - TMDE Acquisitions
- Picatinny Automatic Test System Division (ATSD)
  - Engineering Services
- TPS Army Activity
- Automatic Test System industry Day
No Change Since April ‘18 NDIA Meeting
Test Measurement & Diagnostic Equipment Overview

TMDE Product Teams
- APATS - At-Platform Automated Test Systems
- OPATS/NGATS - Off-Platform Automated Test Systems
- TEMOD - Test Equipment Modernization
- CALSETS - Calibration Sets
- FMS - Foreign Military Sales
What is NGATS?
NGATS - DOD / Army Standard

A single system for Field, Sustainment, and Depot Maintenance supporting current and future systems IAW DoD, ASA(ALT), and Army Policy

NGATS (DoD/Army Standard)

Replaces Legacy AT

DSESTS

• Abrams/Bradley

BSTF

• Ground Missile Systems
• Kiowa Electronics

EOTF

• Kiowa/Apache Electro-Optics

Supports Current and New Systems

Abraam

Bradley

Stryker

CROWS

LW155

TPQ-53

CH-47

Reduces Total Logistics Burden

• Enables Information Superiority
• Reduces Obsolescence / NEOFs
• Enables Closed Loop Diagnostics
• Supports CLOE-SALE(LMP/GCSS-A)
• Consolidates ATS
• Consolidates MOS 91G to 94Y

Increases Operational Benefits

• JCIDS Validated / ATEC Tested
• NET Ready
• Decreased TPS Diagnostic Times
• C130 Transportable
• Reconfigurable
• Open Source Architecture
• Field level, Sustainment level (equipment Synergy w/ Depots)

Net Centric Capability

Automatic Test Equipment (ATE) Shelter

Test Program Set (TPS) Shelter

26 February 2018
TMDE Programs – Next Generation Automatic Test System (NGATS)

- First Article Test completed Sept 2015
- Current production supporting TPS development/rehost
- Army Reliability Test completed May 2017
- Logistics Demo. completed May 2017
- Rail Impact Tests completed Aug 2018
- Mobility Test completed Apr 2018
- Materiel Release anticipated 1-2QFY19
TMDE Programs – NGATS Shelters

- Currently Producing 8 Sets of Shelters (ATS, TPS)
- Shelter ATP Completed October 2016
- First Shelter Delivered January 2017
- First NGATS Shelter Installation Completed February 2017
- Rail Impact Tests completed Aug 2018
- Mobility Test completed Apr 2018
- Production moved to Goldsboro, NC – new First Article
- CSC Testing Completed
NGATS Mission Areas

NGATS will be Capable of Supporting Existing and Future Army Platforms

TPS Engineering Development
- Completed
- In Process
- Planned
- In Discussion

- M2A3 M3A3 BFIST
- M1A2 SEP
- Apache
- CH-47
- Stryker
- M777
- Firefinder
- M2A2 ODS/SA M7 BFIST SA
- STRI
- Gray Eagle
- JBC-P (MFoCS)
- M109A6 (Rehost), M109A7 (New TPSs) Paladin
- NVDs
- CREW Duke
- MML
- TPQ-53
- Avenger
- Husky HDMS
- Hellfire
- Shadow
TMDE Acquisitions – Misc.

- Various General Purpose Electronic Test Equipment Modernization projects (TEMOD) - anticipated Contract Awards
  - TS-4544/U Telecommunications Test Set (1QFY19)
  - TS-4549/T Radio Test Set (2QFY19)

- Multiple Calibration Instruments / Calibration Standards Acquisitions:
  - 5730A Multifunction Calibrator 1QFY19 / 3 QFY19
  - 96040A Low Phase Noise Signal Generator 1QFY19 / 3 QFY19
  - Instrument Controller Replacement 3QFY19
  - AN/GSM-421A(V)2 Mobile Maintenance Shop 4QFY19

- Maintenance Support Device (MSD) & Smart Wireless Internal Combustion Engine (SWICE)
  - MSD-V4 (Rugged) contract award anticipated 4QFY18
  - MSD-V4 (Light) RFP contract award anticipated 4QFY18
  - WATS LRIP 2QFY19
ATE Engineering Services IDIQ – Large Business IDIQ
- Continuing to release tasks

ATE Engineering Services IDIQ – Small Business 5 yr IDIQ
- Contract awarded June 2018 (3 vendors)
- Releasing tasks

ARDEC WSEC IDIQ – Small Business 5 yr IDIQ
- Contract awarded May 2018 (5 vendors)
- Releasing tasks
- Contains ATSD requirements as well other WSEC and ARDEC requirements
TPS Army Activity

- ATSD Working with West Point to update the Army’s ATE/NGATS Study
  - Finished OCONUS trip for data gathering
  - Adding phase on NEOFs in Army
- Rehosting/developing numerous TPSs for NGATS
  - MFoCS TPS development awarded August 2018 - ARDEC
  - Discussion on Blackhawk migration – AMRDEC
  - Rehosting of Avenger TPSs – AMRDEC
  - Rehosting Hellfire TPSs – AMRDEC
  - Discussion with AN TPQ53 Radar – ARDEC/TYAD
  - Discussion on MML TPSs – AMRDEC
  - Discussion with AN/ASN-128 Radar – TYAD
  - Begun New Development of TPSs for M109A7 – ARDEC
    - In-house/contractor
  - Discussing TPS requirements with JAB – ARDEC
  - Continue TPS development with STRYKER - ARDEC
- Working on Army CBM+/HMS (NxOMS) efforts
- Continuing to study/develop an Electro-Optic Test Subsystem
- Continuing the development of an RF Subsystem
Automatic Test System Industry Day

- Fedbizopps Solicitation Number: N68335-18-RFI-0245
- Schedule – October 16 – 18, 2018
- Location – Arlington, VA
- Topics of Army Interest
  - New ATE and TPS Technology in the following areas:
    - Intermittent Fault Detection
    - FPGA Instrumentation/testing
    - RF instruments
    - Embedded (Test, Debug and Diagnostics)
    - Boundary Scan
    - Cyber Security (ATE and TPSs)
    - TPS Tools