

## 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

## PEO Combat Support & Combat Service Support



## 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

#### Replaces Legacy AT

**BSTF** 

· Ground Missile Systems Kiowa Electronics

### **DSESTS**

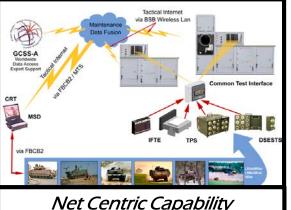


Abrams/Bradlev

**EOTF** 



Kiowa/Apache Electro-Optics



### NGATS (DoD/Army Standard)





**Automatic Test Equipment** (ATE) Shelter



Test Program Set (TPS) Shelter

### Supports Current and New **Systems**

Aprams

Bradley

Strvker



LW155



**TPQ-53** 



#### 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 BenefitsJCIDS Validated / ATEC Tested

- **NET Ready**
- Decreased TPS Diagnostic Times
- C130 Transportable
- Reconfigurable
- Open Source Architecture
- Field level, Sustainment level (equipment Synergy w/ Depots)

# TMDE Programs – Next Generation Automatic Test System (NGATS)

- **First Article Test completed Sept 2015** → 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**





M2A3 M3A3 BFIST



M1A2 SEP



Apache



CH-47







M777



**CROWS** 



M2A2 ODS/SA M7 BFIST SA





**STRI** 



Gray Eagle







NGATS will be Capable of Supporting Existing and **Future Army Platforms** 



M109A6 (Rehost), M109A7 (New TPSs) Paladin





M1A1 SA

**NVDs** 



**TPS Engineering Development** 



In Process Planned

In Discussion



TPQ-53







Hellfire



Shadow



Husky **HDMS** 

26 February 2018

## 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

# Picatinny ATSD – Engineering Services

- >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**

- Three Army ATE/TPS Centers
  - ARDEC ATSD
  - AMRDEC
  - TYAD

### **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

