



## TCM-ABCT & RECON SITREP

09 August 2016

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### 1. ABCT

#### a. Abrams.

1) The Abrams Technical Advisor attended the Abrams Trophy APS Design Review at TACOM from 1-3 August 2016. I informed the PdM Abrams and TARDEC leads of the MCoE non-concurrence of the current design due to the width of the APS when applique to the Abrams and have requested a field of view analysis if the system is installed in a different configuration. A detailed trip report will follow.

2) The Abrams Technical Advisor attended a form, fit, function analysis of the Joint Chemical Alarm Detector (JCAD) and M100 decon kit placement in the M1A1 SA and M100 decon kit placement in the M1A2. The proposed placement for both components in the M1A1 SA were acceptable, however the M100 kit in the M1A2 is in a location that could possibly interfere with the loaders during loading and is a natural step point when entering and exiting the vehicle, the M100 kit is made of plastic and would be easily damaged in this location. We have asked the PM Abrams to look at an alternate location and have proposed a location under the loader's tray.

#### b. Bradley.

1) ATCM Bradley, LTC Reed, and SFC Shepherd attended the FFV Spiral C IPC meeting held 03 August 2016 at the Maneuver Battle Lab. Attendees included stakeholders from the MBL, MRD, MCoE G2, and PEO GCS. Key points of discussion focused on platform and platoon survivability IOT inform FFV CDD development. Spiral study issues will support data collection on platforms utilizing BRAT I/II, ARAT I/II, APS, and a combination of BRAT/ARAT and APS in three focused study issues. The case scenarios will consist of a mechanized IN CO HQ element, two mechanized infantry platoons, and a tank platoon with AMPVs and JLTVs integrated into the force structure. The spiral is scheduled from 28 November to 16 December, preceded by a mission analysis update on 11 August, and a MPC meeting on 14 September.

2) We're providing coordination between PM Bradley, CASCOM and 194<sup>th</sup> Inf to secure Soldiers and vehicles to support the development of a training video for Bradley Reactive Armor Tiles (BRAT) I and II. The current BRAT video does not support the A3 and does not include BRAT II components for the side skirts. All tasking's have been accepted and the PM is packaging tiles for shipment to FBGA in mid-Sept for the video shoot occurring from 03-14 October.

3) We're providing coordination for the PM and BAE to return and replace their Crew Module Unit Recorder (CMUR) for repair and update. The recorder at BAE is non-operational. Software testing for the vehicle will begin later in the CY and will depend on an operational CMUR.

4) George Moore met with the PM, PEO-STRI, and Oasis Engineering to receive an update to the Commanders Smart Display (CSD) in the COFT SA to overcome breakage that has occurred in two simulators. The current display can support an impact of 40lbs from 39 inches

and the newer touchscreen has been tested with weights up to 250lbs of force. Additional testing is being conducted to select the best solution.

5) The team is developing a course of action with TCM Live in order to support removal of MILES XXI from the force and provide PM direction about when they can remove the requirement for vehicle software testing with these devices. Tentative date is Jan 2017.

**c. AMPV.**

1) The AMPV team is participating in the Test & Evaluation WIPT at APG, MD, this week. The agenda includes developmental testing schedule, operational test planning, RAM, Cybersecurity, and an ABCT organizational update. Will provide details in next week's SITREP.

2) The first AMPV Mission Command and General Purpose variant(s) IPT was held since the CDR. BAE showed slides of the proposed boot-wall from their subcontractor. First look indicated additional bracketing will be required to be added to the vehicle to support the boot-wall connection to the vehicle. There were also some concerns raised about operation in high wind conditions due to the potential of the tent shelter to get caught in the ramp as it is raised or lowered.

**d. Formation and DOTLFP Integration:**

**1) Training, Leader Development, and Safety Integration (TLS):**

a) The Center for Army Lessons Learned has published an Initial Impressions Report (IIR) by their Collection and Analysis Team (CAAT) during Exercise Anakonda -16 (AN-16) from 7-17 June which was conducted in Poland. This report is based on key leader interviews and by direct and indirect observations during the conduct of the exercise. CALL will publish an Anakonda -16 Special Study handbook by 2QFY17, containing key leader interviews, in-depth analysis by actual participants, and refined lessons and recommendations. View and download the report here: <https://call2.army.mil/>

b) The Office, Chief of Armor has developed Armor Force Structure Smart Books that detail the placement of Armor and Cavalry Soldiers, platforms, and equipment by A, I, and S-BCT (both active and reserve component). The active component edition can be found here: <https://www.milsuite.mil/book/docs/DOC-299904>. The reserve component edition can be found here: <https://www.milsuite.mil/book/docs/DOC-299905>

c) The team has wrapped up its visit to NTC 16-08 (1/1ID) and is planning for tiered coverage of RSOI, force on force, and AARs for 16-09 involving 3/4ID from FCCO. 3/4ID's training at 16-09 will focus on their deployed requirements in support of EUCOMs Regionally Aligned Force mission set ISO Atlantic Resolve. <http://www.eur.army.mil/atlanticresolve/>

**2) Doctrine, Organization and MC/Network Integration (DOP/MC-Network):**

a) Phil Tiemeyer will attend Command Post (CP) Summit II from 13-15 Sep at Fort Leavenworth. This is a follow on meeting to a previous summit he attended in June at Fort Bliss. CP Summit II will complement the DA G-3 Mission Command Network Refinement Summit to be conducted on 14 September hosted by MCCoE, and led by HQDA G-3/5/7. We expect to leverage insights and guidance from this forum that can be included in the CP 2040 Strategy.

**e. Large Caliber Ammo:**

1) Mr. Kuamoo is observing live fire activities at Fort Irwin, CA from 09-12 August as 1/1ID wraps up NTC Rotation 16-08.

**f. Futures Integration:**

1) We continue to work on the Operational & Organizational (O&O) concept and anticipate no issues with meeting the 24 September ARCIC suspense. TCM ABCT will use the O&O Development SIMEX and Unified Challenge 16.2 to analyze DOTMLPF-P implications to the formation and to inform the O&O.

2) Harry Jackson continues to review the results and data of the ABCT SIMEX conducted at the MBL Simulation Center 25-29 July. The SIMEX compared the ABCT with organic enablers organized under the K-Series TO&E circa 2020 to an advance case K-series TO&E circa 2030 against a peer/near-peer threat. The CAV SQDN and one Armor Combined Arms Battalion were considered high fidelity for data capture. Initial insights confirmed the value added with the addition of two MECH IN COs and one AR CO, the validity of the Tank CO in the CAV SQDN, the need for a C-UAS capability, the ability to operate under D3SOE, and dependency on EAB engineering enablers to support multiple maneuver axes. New findings identified the value of an additional Scout Platoon (6 x 36 SSP) in the CAV Troop and the need to synchronize EW, Space, and Cyber effects with Fires and Maneuver. We will continue to analyze the data to determine the increased capability provided by the APS and next gen FLIR on the combat platforms. The results will also be included in the O&O Concept and inform the OMS/MP update.

3) Rhett Griner supported training of the role players and conduct of UC 16.2. UC 16.2 will assess initial F2025 O&O formations for theater army (TA), corps and division to include employment of initial brigades and enablers in 2030. Vignettes will include Phase 2 (Entry Operations) and Phase 3 (Major Combat Operations) which employ joint maneuver in multiple domains with the intent of presenting enemy forces with multiple near-simultaneous dilemmas. The ABCT will use proposed concepts (such as the Movement and Maneuver Functional Concept), combat formations, vehicles, and technology enablers which are projected for fielding by 2030.

#### **g. Systems, Sustainment and Logistics Integration:**

1) Participated in M88 Ballistic Test IPT with Army Test Center which is planning to conduct underbelly testing which will update program baseline matrix. The last ballistic testing on an M88A2 was conducted back in the 1990s and was not a good representation of what system is fielded today. Results will help inform future R&D efforts to improve force protection while ensuring efficiencies are made with weight distributions. Testing is scheduled for 1st QTR FY17 at APG.

2) The team continues to participate in Action Officer IPTs to help shape the ABCT Enabler CSBs and AROC. There are only special topics planned for the CSB and no descoping is being requested. The Deputy Chief of Staff G8 is chairing the IPT for the AROC and in its infancy, the IPT is scoping efforts to help inform leadership of the enabler gaps as well as provide them recommended prioritization of capabilities for resourcing. The AROC is scheduled for 28 OCT 2016.

#### **h. ARNG LNO: NSTR**

## **2. RECON.**

**Summary:** TCM Recon's primary area of emphasis continues to be participation in Unified Challenge 16.2 which includes the examination of the R&S BCT O&O concept and the Cavalry Group O&O Concept.

a. Maneuver Conference. NO CHANGE: TCM-Recon as the CDID lead, in coordination with 316th CAV BDE, is tasked to execute Working Group #4 "R&S Against a Near-Peer Threat"

for the Maneuver Warfighting Conference, 14-16 Sep. TCM-Recon ICW 316th CAV BDE has prepared the recommendation for conducting the R&S based workgroup discussion for MCoE leadership review.

b. R&S Concepts and Analysis:

1) R&S BCT O&O. Next step is tentative 18 SEP TRADOC O&O OE Revision Activity.

2) Standard Scout PLT O&O. No Change. Assisting with DOTD formal editor's review. CoAR review is scheduled for 18 August and CG, MCoE approval 29 August.

3) Cav Troop O&O: NO CHANGE. Troop O&O development will resume upon completion of the Scout Platoon O&O and the Close Access Target Reconnaissance (CATR) O&O. Troop O&O development is anticipated to resume in October.

4) HHT O&O: To be written (T) NOV-DEC, editing, staffing and approval (T) JAN-FEB 2017.

5) CATR O&O: Completion postponed until Scout Platoon O&O is complete.

6) Armd Recon & Security Bde O&O. TCM Recon is designated to support MCCoE in the development of the O&O. MCCoE has not received sufficient guidance to begin the task and request specific support from TCM Recon.

c. R&S Analysis and Experimentation.

1) Support to Unified Challenge (UC) 16.2: TCM-Recon is participating in UC 16.2 1-12 AUG with a focus on assessing the R&S BCT O&O and the Cavalry Group O&O. Note UC 16.2 is replicating one detached Cavalry Squadron, not the entire Cavalry Group.

2) R&S CBA: Upon completion of UC 16.1 TCM-Recon will resume working with TCM-BCT representatives to update the Capabilities Needs Analysis (CNA) database with critical R&S CBA gaps and solutions.

3) AWA 17 Observer / Analyst (O/A) Support. TCM Recon provides one O/A for GMV / MPF / LRV assessments, 11-30 OCT 2016.

4) R&S BCT Excursion. NO CHANGE. Next step is coordination with 316 Cav Bde, TBA, to synchronize training to be presented at the 15-18 NOV 4ID R&S Academy.

5) Scout Sensor Strategy and Development. NO CHANGE. Next update will occur 10 August as a Night Vision Lab update to COL Nuckols, Director, Mounted Requirements Division, CDID.

6) Cavalry Scout Leader and Solder Competencies: NO CHANGE. Work to be done. Requires time and personnel yet to be identified to conduct mission analysis / coordination, dates to be determined, with OCOA and DOTD to determine a way ahead. Platoon, Troop (TBP), HHT (TBP) O&Os will inform the effort.

d. Recon Knowledge Network.

Recon Council: Next event, TBD will be a planning session to synch preparation for the 15-18 NOV 4ID R&S Academy FCCO.

e. Senior Leader Updates. NO CHANGE.

1) 18 AUG 16: TCM-Recon conducts Scout Platoon O&O Review with CoAR prior to presentation to CG MCoE. As time permits, briefing topics will include an update on all FDUs associated with Cavalry units and initial review of the Troop O&O outline and draft.

2) 29 AUG 16: Scout Platoon O&O Approval Briefing to CG, MCoE.

CATR: Participation in UC 16.2 has delayed critical coordination related to defining NET requirements. NET plan development continues ICW PdM GS as determining how to achieve

materiel fielding decision entrance criteria. CATR initial and key personnel training continues at FBGA for DOTD's CATR training developers.

## Upcoming Events.

### a. ABCT

- 08-12 Aug - AMPV T&E WIPT (APG)
- 09-12 Aug - Live fire @ NTC 16-08 (FICA)
- 15-18 Aug - STE WG (FBGA)
- 22 Aug-06 Sep - Force on Force coverage of NTC 16-09 (3/4ID) (FICA)
- 13-15 Sep - CP Summit (FLKS)
- 13-16 SEP - Maneuver Conference (FBGA)

### b. RECON

- 01-12 AUG: UC 16.2 Execution (FBGA)
- 08-12 AUG: CATR TAVS Training (FBGA)
- 09-11 AUG: 1<sup>ST</sup> Annual Future Soldier Integration Workshop (FBGA)
- 16 AUG (T): CATR Tech Refresh Workshop with PM GS (FBGA)
- 18 AUG: Sct Plt O&O Brf to CoAR (FBGA)
- 23 AUG: Inbrief to Deputy USAARMS Comdt (FBGA)
- 29 AUG: Sct Plt O&O Brf to CG (FBGA)
- TBD: CATR Materiel Fielding Decision (FBVA)
- 11-30 OCT: AWA 17 O/A for GMV/MPF/LRV (FBTX)
- 13-16 SEP: Maneuver Conference (FBGA)
- 15-18 NOV: 4ID R&S Academy ISO 1/4 SBCT R&S Excursion (FCCO)

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