



TCM-ABCT & RECON SITREP (week of 10 August 15)

12 August 2015

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1. ABCT

a. Abrams

1) The Abrams TADSS analyst is providing support to the National Guard's 116th ABCT with the Combat Vehicle Tactical Engagement Simulation System (CVTESS) at the National Training Center (NTC). The unit used CVTESS during their NTC train up so most of the crews are familiar with the installation and operation of the training device. TCM ABCT recommends that the next National Guard unit coordinate to use CVTESS during their train up to ensure the Soldiers are familiar with the devices. TCM ABCT will contact the National Guard to assist with the coordination and training.

2) The Abrams Master Gunner hosted engineers from PdM Abrams in support of an event to determine the Effective Field of View (EFOV) of the Gunner's Primary Sight (GPS). The event was conducted with support from the Abrams Master Gunner School, and both instructors and students provided feedback. The data collected will inform the design of the GPS in the Abrams SEPV4 (ECP1b Lethality Package).

b. Bradley

1) George Moore participated in a conference call to discuss the path forward for CVTESS and the requirement to implement tracer effect into the system. The Precision Gunnery System (PGS) has been in use since 1995 and hasn't received sustainment funding for 10 years, however, it still provides the visual requirement for ammunition fly-out when Soldiers are conducting Table II (device gunnery), and one iteration of Tables XI and XII per year. Crews use this capability to make crosswind and elevation adjustments instead of guessing where 25mm rounds are striking if no visuals are provided. PM Bradley and ATSC have recognized the requirement and are fact finding to provide the vendor an accurate analysis. CVTESS replaces MILES XXI and PGS, and has been fielded at Forts Irwin, Stewart, Bliss, Polk, and Benning with Fort Carson next on the schedule.

c. AMPV

1) This week the AMPV team welcomes a new member, SFC Joshua Tyler. SFC Tyler comes to us from 3/3ID and will function as TCM ABCT's AMPV Master Gunner.

2) SFC Tyler and Scott Williford supported DOTD in the AMEDD TADSS teleconference with PM AMPV, AMEDD and PEO-STRI. This was a follow on to a meeting in July that began an update of AMPV ROM estimates for training devices. The discussion addressed remaining ambiguities with the AMPV TADSS requirements for the medical treatment (XM1285) and the medical evacuation (XM1284) variants at Fort Sam Houston. All participants agreed on final numbers for both training devices and training vehicles that will support AMPV medical training at the institution. A subsequent discussion on all AMPV TADSS will be conducted next week via DCS with a focus on maintenance training devices for the institution.

3) Mike Sjostrom is developing a response to PM AMPV's request about any requirement for Soldiers to connect remote mission command systems (JBC-P, AFATDS, OSRVT, DCGS-A, TIGR, etc.) and radios to the vehicle's interface panel (VIP) using the MIL STD connectors in artic conditions while wearing arctic gloves/mittens. Mike consulted with Soldier Requirements Division to identify the current and near term kit and applicable MIL STD requirements. The initial response is that Soldier's will use the arctic glove that is an insert of the arctic mitten kit.

d. Formation and DOTLPF Integration:

Doctrine, Organization, Personnel and MC-Network (DOP/MC-Net):

1) Phil Tiemeyer is supporting PM AFV as they continue to assess impacts of placing a third RF antenna mounting provision on the Bradley turret. Engineering indicates that there is not enough room on the turret (in terms of RF energy generated) for a third antenna. Most Bradley's have two SINCGARS with two dedicated VHF-FM antennas, which provides two independent channels of communication. With the introduction of HMS, SINCGARS are replaced with two radios that each have two transceivers in the turrets of a significant number of Bradley's. This capability provides four independent channels of communication, however, we remain limited to the two original antenna provisioning's along with an additional MUOS SAT antenna. The HMS dual radio configuration can provide a mix of waveforms: SRW (Nett Warrior), SINCGARS and MUOS (BLOS). Each of these waveforms have unique antenna requirements, and to reduce the impact (primarily a loss of range), a multi-band antenna was developed. Typically waveforms travel 5-7 km with multi-band antennas verses our current SINCGARS 20-40 km range with a dedicated VHF-FM whip type antenna. This becomes a trade-off between waveform flexibility and operational range. If two SRW channels are required, that vehicle will not have the VHF-FM operational range we have today.

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

1) TCM ABCT will observe NTC Rotation 15-09 from 18-26 August at Fort Irwin, CA. The 116th CBCT of the IDARNG is the first RC ABCT to perform a Decisive Action rotation in more than 10 years. Team TLS and the ARNG LNO will cover down on the force-on-force portion of the rotation to collect observations, insights, and lessons learned. POC for more info is Carl Johnson @ 706.545.4652.

2) Fort Benning will host the 2015 Maneuver Conference here from 14-17 September with all events scheduled to be held in McGinnis-Wickham Hall (Bldg 4). The theme this year is "Future Maneuver – Building Soldiers, Leaders and Formations that are Smart, Fast, Lethal, and Precise." For more on registration, agendas, directions, lodging, and participation via Defense Collaboration Services (DCS), visit <http://www.benning.army.mil/mcoe/maneuverconference/>

e. Large Caliber Ammo:

1) Mr. Kuamoo continues efforts to assist in the development of the M1002 Frangible Nose (FN). A User Handling Test (UHT) will be conducted at Fort Hood from 24-27 August with tankers from 1/1CD supporting. This test is designed to ensure the new FN design can meet the required standards.

2) Mr. Kuamoo continues to support plans for a Master Gunner Conference to run concurrently with Maneuver Conference activities between 14-17 September. The projected two-day agenda would include presentations by the FORSCOM and TRADOC Master Gunners, update briefs from the Abrams/Bradley chiefs at Master Gunner School, and roundtable discussions by field master gunners able to attend.

f. Sustainment and Systems Integration:

1) M88A3 CPD Review (Susp: 21 Aug 2015) has been completed by Mr. Harper and the TCM ABCT. On 12 August 2015 CASCOM sent the M88A3 CPD to ARDEC for validation. After ARDEC validation, the M88A3 CPD will start worldwide staffing.

2) The Training Systems Requirements Document (TSRD) for Bradley A4, the Armored Multi-Purpose Vehicle (AMPV), and Paladin A7 Self-Propelled Howitzer was briefed to the Chief of Ordnance (BG Ryan) on 11 August 2015. BG Ryan approved the TSRD as written. CASCOM will now forward approved TSRD to PEO-GCS and DAMO-TR.

g. Assistant Director-ARNG:

1) The ARNG LNO will support Team TLS as they cover down on the IDARNG 116th ABCT NTC rotation. The team will observe the force on force portion of the rotation from 189-26 August, and insights and lessons learned will be furnished to the 116th ABCT leadership.

2) The LNO is also working with TCM-Recon on recommendation(s) for the future scout sensor strategy study, and evaluation of future light reconnaissance vehicles (LRV). The LRV will provide ground combat mobility, lethality, protection and advanced C4ISR capability to IBCT Scout squads, and enable the Cavalry Squadron to accomplish the full range of reconnaissance and security operations.

h. Futures Integration:

1) Mr. Jackson continued to support the CDID Test and Analysis Office tasking to support the VCSA System Divestiture Study. The intent of the study is to identify the risk of divesting entire LINs from the Army inventory.

2) On 10 August the Futures Team participated in a Dominating Mobility through Terrain Shaping and Engagement (DMTTS&E) Increment I Analysis of Alternatives (AoA) teleconference. The DMTTS&E, Increment I AoA will assess both the necessity and options to replace the deep terrain shaping capability provided by the Gator Mine System. The AoA will identify trade space in performance, schedule, risk and cost across a full range of Joint Force options for alternatives to Gator Mine System capability. The AoA will inform both the next Milestone (MS) decision and the development of the Capability Development Document (CDD) for DMTTS&E, Increment I. The loss of Gator impacts TCM ABCT's Terrain Shaping Capability Gap. The Futures Team will continue to participate in teleconferences and workshops in order to identify possible solutions to mitigate the Terrain Shaping Capability Gap.

3) On 6 August the Futures Team attended the Science and Technology (S&T) working group. During the working group TCM IBCT briefed the decomposition of the gaps they will present during the February 2016 Collaboration Workshop. TCM ABCT will brief their gaps at the next working group on 18 August.

4) On 4 August the Futures Team participated in an ARCIC led Gap Aggregation working group. The purpose of the working group was to validate that the ABCT High Risk gaps are represented correctly in the Capabilities Needs Analysis (CNA) database. TCM ABCT's High Risk gaps are correct in the database as of 12 August.

2. RECON.

ORGANIZATION STATUS

- Funding is confirmed for one contractor man year to operate the Recon Knowledge Network / Warfighting Forum.

- PEO IEW&S is working funding for two contractor man years to support CATR DOTMLPF development and execute CATR instruction in appropriate MCoE leader courses.
- No confirmation TCM Recon's the defense contractor positions that perform R&S DOTmLFP will be funded. The current contract ends on 30 August, 2015.
- TCM Recon continues to operate without two critical positions filled:
 - The LTC, TCM Recon will be filled by LTC O 'Steen in September.
 - The MAJ, Acquisition Officer position is not projected to be filled in the next three months; TCM ABCT's ARNG LNO is assisting to mitigate the vacancy
- TCM Recon received a 19D SFC last week to support scout platoon DOTmLFP development and integration.

NEW ACTIVITY – FIRST REPORT:

Supporting MRD by developing two vignettes to demonstrate Soldier Aerial Mobility (SAM) and Soldier Aerial Mobility Vehicle (SAMV). The first vignette demonstrates the concept during to conduct of zone reconnaissance. The second vignette demonstrates the capability in support of air assault operations, including pre-assault landing zone (LZ) observation and observation of enemy avenues of approach to support LZ security.

CONTINUING ACTIONS:

- Support to Leader Course for Sensor to Shooter Linkage Application. (Rose)**
 - TCM Recon is working itself out of a job supporting 316 Cav Bde in their course development by answering early planning RFIs.
 - No future IPRs are scheduled involving TCM Recon.
- Future Vertical Lift (FVL). (Fowler / Rose)**
 - Participated in the 3 August FVL telecon; next event is FVL Attribute Study SAG scheduled for 11 Aug at FT Rucker with members from TRAC.
 - No additional information on this meeting at this time; TCM Recon or MCOE participation has not been requested.
- LRS DOTMLPF Development.** Key actions for LRS Assessment in sequence:
 - Awaiting I Corps and III Corps comments or concurrence o/a 1 August.
 - Current & Future Experimentation with No Change:**
 - CAC, ARCIC FDD, Armor and Infantry Schools concur; XVIII Corps provided recommendations.
 - Adjudicated copy of the assessment to be provided to Deputy to the CG (T) within two workdays of receipt of Corps staffing; then forward to CG, MCoE.
 - Submission to ARCIC following CG, MCoE approval.
- Support to Force Design Efforts.**
 - Standardized Dismounted Scout Squad TOE Paragraph FDU Jr.
 - TCM Recon is providing the ARC instructor tasked to brief Scout Platoon, HHC, 1-37 Armor o/a 11 August with information related to a standard scout platoon.
 - The standard scout squad will be replicated in AWA 16.1.

e. Close Access Target Reconnaissance.

- Awaiting response from PEO IEW&S for funding support for one CATR DOTMLPF developer / integrator, and the transfer of a CATR SME / instructor to reinstate CATR leader familiarization training at MCoE.
- Have been unable to return to CATR O&O writing.

ACTION WITH NO SIGNIFICANT CHANGE

a. O&O Development. (Rose)

1) Scout Plt O&O. Key actions in sequence:

- Continued support to TCM IBCT related to AWA 16.1 planning and Standard Scout Platoon O&O with 9 x 36 Appendix.
- Staffing with Operational Force, Brigade Modernization Integration Division (BMID), Armor & Infantry School, and Director, DOTD will run through 5 August 2015.
- BMID suspense for the O&O is 10 August.

2) BCT Cav Sqdn O&O. Key actions in sequence:

- Staffing with Operational Force, Armor & Infantry School, and Director, DOTD will run through 13 August 2015.
- DOTD editor's review will occur concurrent to staffing to compress O&O completion timeline.

3) R&S BCT O&O. Key actions in sequence:

- Action Officer's draft appendix reflecting UC 15.2 lessons learned is complete.
- No other actions are required.
- The appendix will not be completed until HQDA makes a determination on implementing the ABCT redesign (3 Company CABs).

b. Cbt Veh Mod Strategy Campaign of Learning.

- ARCIC formulating plan. TCM Recon support to this effort will include providing copies of scout platoon, cavalry troop, cavalry squadron, R&S BCT O&Os to the ARCIC lead.

c. Analysis and experimentation.

1) UC15.3.1 (Unified Quest):

- Supporting CDD in the development of 2 days of Air-Ground Integration during the 2nd week of the GAMEX.
- Preparing revision to R&S BCT to reflect anticipated ABCT and SBCT organization revision.
- Upcoming Key Events:
 - 4 Aug 15 - Initial Planning Conference
 - 19 Aug 15 - Final Planning Conference
 - 14 - 25 Sep 15 - UC 15.3 GAMEX.

2) AWA 17 (24 October – 4 Nov 2016, FBTX). Supporting ELTA's preparation of the AWA participation application. ELTA will provide for AWA 17 a lightweight, man-portable GSR employed at scout platoon and scout section level.

d. **CATR.** (No change due in large part to the loss of our Acquisition Corps Major)

- Current Requirements Review: CATR Baseline Requirements MoA (TCM ABCT – Recon and PM Terrestrial Sensors) is awaiting final signature from PM Terrestrial Sensors.
- Policy IPT Workgroup. Published initial coordinating draft policy for field review. The policy is approximately two – thirds complete, due to limited IPT members at the MCoE workshop.
- CATR architecture development.
- CATR STAR. Coordinating with MCoE G2 in order to determine if an additional threat assessment is required for the program.
- Upcoming unit visits. TBD June (Tent) 3ID CATR Facility (Cason, DOTD rep)
- Security Classification Guide (SCG). PM Ground Sensors is currently staffing the document.
- Net Plan Development. Coordinating with PdM Ground Sensors to determine program of instruction (POI).
- Test and Evaluation IPT scheduled to begin 28 July.

d. **Reconnaissance Knowledge Network** (RKN / WfF). No significant activity.

e. **Support to Doctrine Development.** No activity.

ACTIONS ON HOLD DUE TO LIMITED STAFF

a. **R&S CBA**

- Functional Needs Analysis (FNA): Organizing FNA capability gaps and their associated solutions within the FSA according to an operational priority of core Squadron mission sets and then enabler and Army-wide gaps.
- R&S CBA Functional Solutions Analysis (FSA): Internal and external CoE colonel level review of relevant areas of the R&S CBA FSA is currently ongoing with no significant issues raised. Upon completion of this staffing, TCM-Recon will begin BCT Command Team staffing through Division G3s. TCM-Recon then adjudicates staffing comments and completes final draft FSA Report. This staffing is on hold pending completion of Cavalry Squadron and Scout Platoon O&O's and LRS Assessment.
- R&S CBA Draft DOTMLPF Integrated Change Recommendation (DICR). Under development; goal is to submit a draft with the FSA for ARCIC's concurrent approval to speed up the CBA's approval.

b. **CATR.** (Due in large part to the loss of our Acquisition Corps Major)

- Sustainment IPT: reviewing and providing recommendations for Sections 2 and 5 of Life Cycle Sustainment plan.
- CATR system training plan (STRAP). DOTD and TCM Recon adjudicated comments and forwarded document to DOTD Systems Branch Team chief for review.

- CATR DOTMLPF Assessment.

3. Upcoming Events.

a. ABCT

- 10-14 Aug - NTC Rotation 15-09 CV-TESS Support (116th CBCT - IDARNG) (FICA)
- 17-27 Aug - NTC Rotation 15-09 Force on Force (116th CBCT - IDARNG) (FICA)
- 17-19 Aug - ABCT Brief 101 (BFV Integration)(Detroit, MI)
- 17-19 Aug - CMUR IMI Review (Orlando, FL)
- 24-28 Aug - CCTT Review/Fielding (FRKS)
- 07-11 Sep - LP CROWS User Excursion (FHTX)
- 11-18 Sep - (T) Unit Visit to 8A RAF (2/1CD) (ROK)
- 17 Sep -10 Oct - NIE, Ex CAB TAC CP evaluation (FBTX)
- 16-20 Nov - AMPV Human Factors Engineering Assessment (Santa Clara, CA)

b. RECON

- 13 AUG: Sqdn O&O Staffing Window Ends
- TBD: Unit Visit 3ID & CATR Facility, FSGA
- TBD: Reconfigurable Integrated Weapons Pedestal DEMO, Redstone Arsenal AL (Cason)
- 25-26 August: FVL RIPT Working Group #14: CONOPS Development, Telecon (Fowler)
- 1 SEP: CATR PEO IEW&S MDD Management Review Telecon (Rose)
- 14 SEP: CATR MDD Decision Briefing to PEO IEW&S, APG, MD (Rose)
- 14-25 SEP: UC 15.3 GAMEX Phase III CAM-WAS, MBL FBGA (Pers TBD)
- 21 SEP-17 OCT: NIE 16.1, FBTX (Dankyan)

c. CATR Training Events: **No Change**: TBA pending replacement of contract personnel

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