



TCM-ABCT & RECON SITREP (week of 08 June 15)

10 June 2015

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1. ABCT

a. Abrams

1) Team Abrams participated in the Abrams Program Management Review (PMR) in Sterling Heights MI., and briefed ongoing TCM and TRADOC actions. The PMR reviewed all aspects of the Abrams program including ongoing ECP development, logistics, financials, TADSS, and numerous other topics.

2) Team Abrams will attend a PdM briefing to Mr. Daley (DOT&E) at the Pentagon next week regarding Low Profile CROWS. The purpose of the brief is to inform Mr. Daley on the test plan for three upcoming user excursions; two at APG, and one at FHTX. User excursions validate that LP CROWS allows the TC to maneuver his tank from the open hatch position, and does not degrade operational performance from CROWS-II.

3) The Abrams TADSS analyst provided SME support for beta testing for the latest software drop at APG, MD. Soldiers from 1st ID, FRKS supported the event. Testing included all three of the MILES systems and the thru sight video CMUR. There were no issues with the testing. The common trend with testing has been the lack of training on the devices by the Soldiers. The Army's decision to pure fleet with the new MILES CVTESS will mitigate this issue. I recommend we continue to support the software testing to insure that the training devices are not affected by future software drops. Going forward, the Army will have multiple different software and hardware configurations in the force necessitating continued validation testing.

b. Bradley

1) The TCM office hosted the PMOs of Abrams and Bradley, CERDEC, and the Mounted Requirements Division in a synchronization meeting to discuss the current lethality ECP technologies that both the Abrams and Bradley PdM teams are researching for further development and integration. Following the recent 25 March 2015 ASARC approval of Abrams ECP1b and Bradley ECP 2b, the program offices have been looking at the viable material solutions that are capable of meeting the capabilities outlined in the ECP. They have been analyzing individual integration maturity, risks, and program costs of separate technologies with anticipation to make decisions informed by TCM feedback prior to finalizing the Scope of Work and Request for Proposal release. The team is being diligent to ensure commonality is maximized across both the platforms to facilitate supportability and help reduce costs. During the meeting, both of the PdM teams along with CERDEC provided the TCM a review of the study and analysis the teams have conducted thus far with regards to the individual ECP technologies. The morning session discussed vehicle generated smoke and the color camera technologies.

For onboard smoke generation, there are two major concepts under consideration; an appended Screening Obscuration Module (SOM) and restoring the once integrated Vehicle Engine Exhaust Smoke System (VEESS). The VEESS is the recommended option of TCM and the PM. The PdM presented six different VEESS smoke generation integration options that varied

in integration complexity, space claim requirements, duration of smoke generation, safety and test concerns. The one option that appears to provide the desired capability, mission role flexibility, and minimizes impacts to other operational needs is the option that segments off an existing under armor fuel tank on the vehicles for dual use. One segmented tank for engine propulsion, and the second segment for smoke generation using diesel fuel or fog oil. Depending on mission needs, both of the segmented tanks could be filled with JP-8 fuel with no loss to vehicle operational range. A common concern is the logistics associated with providing additional fuel, regardless of whether it's diesel or fog oil.

Based on recent threat assessments, the user has a need to protect Soldiers using Direct View Optics (DVO) on the Abrams and Bradley's. These systems currently do not provide Soldiers the needed ocular protection nor are capable of protecting the components themselves. The maturity and costs of appropriate DVO ocular protection makes them impractical for integration at this time. However, a color camera and associated digital technology has expanded tremendously and thus is a viable option that the PdMs are investigating. Color cameras exist today that in most cases can meet or exceed the DVO performance. Analysis shows that the space claim allows for camera integration without sacrificing current (two) fields of view and with a potential of up to four fields of view matching the 3GEN FLIR. CERDEC has conducted modeling and Simulation, preliminary testing, and user jury demonstrations that collected valuable performance and human factor data. Based on this data and market study, the PdMs recommend that the integration efforts focus on the use of a 1080p projected display with a 2160p camera sensor. This combination is the most mature, affordable, and provides a performance that is the most comparable to the DVO. The user's long term goal is to match the sensor capability to the display once schedule and budget permit. The morning session culminated with a color camera demonstration on Lawson Airfield. The various configurations of color camera technologies were on display allowing all participants to see the equipment and physically see the differences and their performance in a representative environment.

Discussion continued in the afternoon session covering the following topics:

- Environmental Cooling System
- Smoke Grenade Launcher/Laser Warning Receiver
- Enabler Technology (Video Capturing)
- Lethality Package Technology Implementation
- Commander's Independent Weapon System
- Rear View Sensor System
- Laser Range Finder
- Meteorological Sensor
- Advanced Multi-Purpose round integration
- Updated Crew Fire Suppression System

A memorandum will be drafted by the TCM office that will be used for historical continuity but will also assist the PdM teams in their documentation for program decisions and strategy development.

c. AMPV

1) Scott Williford participated in the review of the Government Furnished Equipment/ Material (GFE/M) and synchronization meeting, 2-3 Jun, in Warren Michigan. The major focus was to ensure the basic issue item (BII) lists contain the appropriate mix of items identified coming from multiple currently fielded systems. The team will discuss identified items during the Preliminary design Review (PDR) scheduled for the week of 15 Jun 2015. Efforts resulted in

significant planned space claim reduction for AMPV variant load plans. It was determined that the BOI for NETT Warrior had not been included into the vehicle baseline plan by either of the PMO's. Scott took the action item to provide the NW BOI as applicable to AMPV to both PMO's. One other identified issue is the planned integration of the Joint Chemical Agent Detector (JCAD, M4/M4A1) on all vehicle variants. The current ABCT TOE does not reflect these quantities. The Basis of Issue for this device is One per Company Headquarters, One per Platoon or equivalent, Two per Battalion and above staff, and One per Element habitually operating independently. Scott will provide an ABCT TOE crosswalk with the AMPV variants to the PM in order to inform their decisions on this subject.

2) COL Milner (PM AMPV) visited with MRD and TCM ABCT this week. Subjects discussed were next week's AMPV Preliminary Design Review (PDR) and establishment of an AMPV Requirements Management and Analysis Plan (RMAP). This plan will focus on the Engineering and Manufacturing Development (EMD) phase with three over-arching elements:

- Continued collaboration between the materiel and combat development authorities to understand the capabilities of industry to deliver against the requirements and to develop plans for production and fielding of the AMPV capabilities into the operating forces of the Army.

- The use of Knowledge Points (KP) in EMD Phase activities to support deliberate refinement of the CDD into a CPD along with related revisions to the performance specification.

- The use of CSBs at the Army and OSD level to ensure a balanced set of affordable and achievable requirements are in place at MS C.

d. Formation and DOTLPF Integration:

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

1) TCM ABCT provided CDD with recommended bill-payer(s) for a Force Design Update that would establish a Battalion/Squadron Maintenance Officer (BMO) in CABs and CAV SQDNs. This action is in response to NTC surveys and post NTC lesson learned conferences. Results of these data collection events discovered many commanders' concerns with inexperienced junior officers functioning as Maintenance Control Officers (MCO) in charge of their CAB and CAV SQDN maintenance operations. The current TOE codes these MCOs as a 1LT, 91A Ordnance Officers and are assigned to the Forward Support Companies (FSC) in the Brigade Support Battalion (BSB). CAB and CAV SQDN commanders believe that the addition of a combat arms captain, that possesses knowledge in maintenance operations, combat platforms, maneuver and tactics that reports to the CAB/SQDN XO, will improve all facets of their maintenance operations. TCM ABCT, along with concurrence from the AR CMDT office, recommends converting an Assistant Operations NCO, in the CAV Squadron and an Operations Assistant in the CAB to a Battalion/Squadron Maintenance Officer position.

2) DA G3 hosted a phonecon to discuss the fielding of BFT1/2, KGV-72, and JCR to a 2-1AD battalion at Fort Bliss in calendar year 2015. Participants included DA G3/5/7, FORSCOM G3, PEO C3T, PM Mission Command, PM WIN-T, PM Abrams/Bradley, BMC, and TCM-ABCT. 1-37 AR an EPLRS equipped battalion that is moving from Fort Hood to Fort Bliss is the unit now identified to receive the upgrade to BFT2/JCR for Abrams and all other platforms in the battalion with the exception of the Bradley. The Bradleys' will be upgraded to BFT1/JCR, and all platforms will be secured with the KGV-72. The objective window to accomplish the upgrade is JUL-SEP 2015. Potential challenges are possible conflicts with 1-37 AR long-range calendar and a window to conduct training on the upgraded systems.

3) Phil Tiemeyer continues to support CERDEC's development of the Expeditionary CP (M1068 Mobile CP) for NIE 16.1. CERDEC, APG is nearing completion of the network and mission command vehicle configuration. The platform will be fully safety released by ATEC prior

to shipping to Ft. Bliss, 2 Jul. Awaiting new equipment training dates from BMC for the vehicle crew and staff operators.

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

1) Pending approved travel funding, Team TLS will conduct unit visits to ABCT training activities at the following locations/events:

- 22-26 Jun (T) - Post-CTC visit to 3/1CD and TARDEC's Squad Centric Mounted Maneuver demonstration (FHTX)
- 22 Jun – 02 July (T) - CALFEX and EAS Turn-in for USEUCOM Regionally Aligned Force (1/3ID) (JMTC/JMRC)
- 17-27 Aug - NTC Rotation 15-09 for the 116th CBCT (IDARNG) (FICA)

2) The ABCT Warfighters' Forum Senior Mentor Symposium hosted by LTG Sean MacFarland, CG, III Corps and Fort Hood, and CSM Alonzo Smith, CSM, III Corps and Fort Hood will convene Tuesday, 30 June from 1130-1330 (EST). The symposium provides a venue for the ABCT community to engage in topics of interest, discuss best practices for meeting the challenges of Unified Land Operations, and share observations, insights, and best practices to improve operational readiness and assist ABCTs with influencing institutional change. Follow the AWfF at <https://www.milsuite.mil/book/groups/heavy-bct-warfighters-forum-hwff>

e. Large Caliber Ammo:

1) Mr. Kuamoo continues efforts to assist in the development of the M1002 Frangible Nose component with observations and input to on-going ricochet testing.

2) Mr. Kuamoo is observing Abrams live fire training involving E Company, USMC Detachment, at Fort Knox, KY. The unit is firing several types of large caliber training munitions, which are performing as designed.

f. Sustainment and Systems Integration:

1) MSG Kennedy is attending the M-88 modernization brief to CASCOM leadership during their quarterly synch meeting and hands-on OPMOD vehicle overview on 10/11 June. Details TBP in next week's report.

g. Futures Integration:

1) Mr. Jackson participated in the Close Combat Weapons Systems Project Office Home on Home with MCOE and AMRDEC. The purpose of the Home and Home is to:

- provide near, mid, and far term program status updates and DOTMLPF assessments
- identify stakeholder decision points, and prepare joint strategies for LIRA 18, POM 18-22, and near, mid, and far term requirements

2) CPT Dawson participated as the ABCT SME in the CEMA CONOP Development Working Group hosted by CDD. The purpose of the workshop was to create a CONOP that will aid in developing the necessary capabilities for the future replacement of the Gray Eagle. The input focused on how ABCT's would employ Gray Eagle with different payloads (ISR, EA, Lethal) while supporting different missions.

3) Mr. Griner participated in the Combined Arms Futures Integration Exercise (CAFIX) IPC. The MCOE executes CAFIX 2016 at Fort Benning from 25 April to 27 May 2016 (T) focusing on the integration of future warfighting capabilities in order to inform requirements and enable combined arms capability development for Soldiers and small units. The exercise will include several technologies that may mitigate ABCT capability gaps.

h. Assistant Director-ARNG:

1) The ARNG LNO will begin conducting a conference call with ARNG maneuver leaders to share information and discuss relevant topics to the force. The first call is scheduled for October 2015 and the topics will be NTC Rotation Trends, ADL/Network for tanks, and updates from the major ABCT shareholders.

2. RECON

a. O&O Development.

1) Scout Plt O&O. TCMs and Divisions within CDID have completed O-6 level staffing with concurrences or concurrence with constructive comments. The O&O is pending review by Infantry and Armor Schools and DOTD. Follow-on tasks

TBD (change)	Info Paper to CG, MCOE, AR & IN CMDTs.
23 June – 17 July	Staffing with the operational force - directly with AC Division G3s and through National Guard Bureau to ARNG Division G3s.
19 July	Decision Paper to Chief of Armor.
31 July	Forward O&O for ARCIC approval

2) BCT Cav Sqdn O&O. The O&O's introduction, operational context, and organizational concept are undergoing field grade review while the operational concept is being completed. The most challenging portion is yet to be written, Appendix B, Risk Mitigation. Competing requirements precluded resourcing a dedicated team "locked in a room." The distributed team approach has caused the schedule to slip by approximately three weeks:

o/a 18 June	MCOE Leader Review (BG McKean & Mr. Sando?)
22 June – 10 July	Operational Force Review, (through BG McKean's Office)
13-15 July	Final Edits
16-19 July	Senior Leader Review
19 July	Submit to ARCIC

b. R&S BCT and Supporting Experimentation.

1) TCM-Recon supported the Combined Arms Futures Integration Exercise (CAFIX) Initial Planning Conference (IPC), producing the initial concept of operation for demonstrating technologies supporting scout section and platoon mounted and dismounted reconnaissance and tasks associated with a screen. 9-11 June, FBGA (Rose, Hinzman)

2) UC 15.2 Seminar/Wargame Phase III. 15 June – 2 July – Performing Action Officer Coordination in preparation for UC 15.2 Seminar/Wargame Phase III, FBGA (Fowler, Dunn).

3) Army Warfighting Assessment (AWA) 17, 24 October – 4 Nov 16, FBTX. Submitted recommendation for AWA to examine the ELTA North America ELM 2180 lightweight, man-portable Ground Surveillance Radar (GSR) as a sensor employed at scout platoon and scout section level.

c. LRS DOTMLPF Development.

- 1) Preparing for the 11 June LRS Task Selection Board , DOTD, FBGA, (Larson).

d. Close Access target Reconnaissance. .

- 1) Current Requirements Review: CATR Baseline Requirements MoA (TCM ABCT – Recon and PM Terrestrial Sensors) is prepared for decision briefing and signature on 11 June 2015.

- 2) Future Requirements Review: USSOCOM PEO-SR will host an IPT 18 June at McLean VA to review HF-TTL KSAs and KPPs. (Cason).

e. Working actions with no change in status.

- 1) Future Vertical Lift (FVL). 23-24 June: FVL RIPT Working Group #13: FVL Attribute Study Update, CONOPS Development, Telecon (Personnel TBD).

- 2) Support to Cavalry / Scout Force Design efforts - Army Senior Leader decisions pending.

- 3) Standardized Dismounted Scout Squad TOE Paragraph FDU Jr.

- 4) Recon Knowledge Network (RKN) support of the MCOE Cavalry Council 17 June.

- 5) RKN Reconnaissance and Long Range Surveillance Newsletter published at:

- 6) LRS Assessment, suspense 31 July.

- 7) CATR 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.

- 8) CATR architecture development.

- 9) CATR STAR. Coordinating with MCOE G2 in order to determine if an additional threat assessment is required for the program.

- 10) Upcoming unit visits.

- TBD June (Tent) 3ID CATR Facility (Cason, DOTD rep)

- 11) CATR ONS Tracking. TCM Recon is continuing to work with division CATR OIC at 1AD, 3ID, and 82nd Airborne regarding ONS requirements.

- 12) Security Classification Guide (SCG). PM Ground Sensors is currently staffing the document.

- 13) Net Plan Development. Coordinating with PdM Ground Sensors to determine program of instruction (POI).

- 14) Upcoming briefs: To Director DOTD to provide CATR overview and doctrine /training requirements associated with the CATR program (TBD June).

f. Actions without activity due to competing requirements.

- 1) 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.

- 2) 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 o/a 26 May, with a requested suspense of

23 June. TCM-Recon then adjudicates staffing comments and completes final draft FSA Report o/a 30 June.

3) 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.

4) CATR Sustainment IPT. Reviewing and providing recommendations for Section 9 of Life Cycle Sustainment plan.

5) CATR system training plan (STRAP). DOTD and TCM Recon will adjudicate comments made by Armor and Infantry School Commandants on 12 June.

6) CATR DOTMLPF Assessment.

3. Upcoming Events.

a. ABCT

- 09-12 June - Combined Arms Futures Integration Exercise IPC (FBGA)
- 10-11 Jun - M88 Modernization Quarterly Synch Meeting (FLVA)
- 15-19 Jun - AMPV Preliminary Design Review (PDR), (SCCA)
- 17-19 Jun - DOT&E Brief (Pentagon) and DVE Demo (Warren, MI)
- 22-26 Jun (T) - Post-CTC visit to 3/1CD and TARDEC's Squad Centric Mounted Maneuver demonstration (FHTX)
- 22 Jun-02 July (T) - CALFEX and EAS Turn-in for USEUCOM Regionally Aligned Force (1/3ID) (JMTC/JMRC)
- 23-25 June - Abrams TADSS Summit (Warren MI)
- 29 Jun-2 July - CMUR IMI development (Orlando, FL)
- 07-17 July - Bradley Common IETM desk top review (Detroit, MI)
- 27-31 Jul - LP CROWS User Jury (APG, MD)
- 03-07 Aug - ECP2 Stowage/HFE fit up event (Detroit, MI)
- 17-27 Aug - NTC Rotation 15-09 (116th CBCT - IDARNG) (FICA)
- 17-19 AUG - Bradley 101 Information Brief (Detroit, MI)

b. RECON

- 9-11 June: CAFIX IPC, FBGA
- 11 June: LRS Task Selection Board, FBGA
- 15 June - 2 July: UC 15.2 SIMEX Execution Phase IIIA, MBL, FBGA
- 18 June HF-TTL KPP & KSA IPT
- 23-24 June: FVL RIPT Working Group #13: FVL Attribute Study Update, CONOPS Development, Telecon
- TBD June: Unit Visit 3ID & CATR Facility, FSGA
- TBD August: Reconfigurable Integrated Weapons Pedestal DEMO, Redstone Arsenal
- 25-26 August: FVL RIPT Working Group #14: CONOPS Development, Telecon
- 14-25 September: UC 15.3 GAMEX Phase III CAM-WAS, MBL FBGA
- 21 September-17 October: NIE 16.1, FBTX

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