



TCM-ABCT & RECON SITREP [week of 13 June]

14 June 2016

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1. ABCT

a. Abrams. The Abrams Technical Advisor is executing the Abrams Software 4.6 Beta Test at Aberdeen Proving Grounds (APG) with support of Soldiers from 1st ID. SW 4.6 is built off the 4.5 baseline and incorporates final production software for the Ammunition Data Link (ADL), Joint Chemical Alarm Detector (JCAD) and LP CROWS. Test events for the first week are focused primarily on static tasks to include validation of AACs, Plumb & Sync and training device operation. The second week of testing is all focused on live fire with the tanks in various postures and levels of degradation to properly stress the tank and the software. We also conducted a validation firing of the M829A4 with representatives from and the Director of Operational Test & Evaluation (DOT&E) and Program Manager Maneuver Ammunition Systems (PM MAS). We have experienced some issues that will be detailed in the test report. However, we are still trying to determine if they are software related or tank hardware with no software association.

b. Bradley.

1) SFC Shepherd participated in an ARDEC led Gunner's Graphical User Interface (GUI) IPT held at Picatinny Arsenal, NJ from 08-09 June 2016 with representatives from ARDEC's Medium Caliber Armament Systems team, MRD, and ATEC. The purpose of the IPT was to compare modifications made to an earlier designed GUI originally designed during GCV efforts. The new GUI system has potential to be future integration solutions for Mobile Protected Firepower (depending on main weapon system solution), Stryker (30mm solution), Bradley (potential ECP 3a integration), and FFV (FY22 decision point). The ARDEC design would consist of a large (+19in) HD LED touch screen with an integrated soft key outer bezel and two handed gunner's hand station. The GUI system will allow for the either the gunner or vehicle commander to maximize engagement time through seamless fire control commands via gunner's hand station, touch screen, or soft key selection. The User will be able to select ammunition type, rate of fire, conduct scenario based engagements parameters, do incremental laze distance adjustments (+/- 5m), optical/digital zoom, battle carry for engagements quicker, etc. The next phase is for ARDEC to conduct a User Jury consisting of 20 or more Soldiers at Fort Benning, GA from 15-19 August 2016.

2) SFC Shepherd participated in a 2 vs 3 Man Crew IPR held by Mounted Requirements Division (MRD) and Maneuver Battle Lab (MBL) on 31 May 2016. PM FFV is funding experimentation to quantify maintenance and sustainment task load on 2 man and 3 man Bradley crews. The experimentation will happen towards the end of 2nd QTR FY17; will consist of identified maintenance/sustainment tasks that identified two and three man crews will have to perform during a 72 hour high OPTEMPO mission. The MBL will be putting together the Crew and Platoon level tasks with MRD and TCM ABCT vetting the list for practicality and scenario development.

3) Mr. George Moore provided PEOTRI and SAAB a demonstration of the ODS SA turret functions during ammo selection for the 25mm. The purpose of the demonstration was to show engineers how the turret handles different ammunition loads in the ammo cans in the turret during normal loading, AP/HE/APFSDST heavy or pure loading of one type ammo. Currently the CVTESS only provides the 70 AP 230 HE loading capability.

4) Mr. George Moore is coordinating a meeting with demonstration to the PM and BAE to provide TOW procedures when operating the vehicle using CVTESS MILES. Currently there is an issue that causes the crew to have to use a workaround to fire simulated TOWs when using the CVTESS.

5) Mr. George Moore provided CVTESS support to the 34th ABCT MNNG during their NTC rotation. The unit has a solid understanding of the CVTESS but displayed some of the same issues noticed with previous units during rotation when troubleshooting the system if there is an error. This is the first unit George has observed traveling as a platoon during mounting and alignment of the CVTESS and having the PL, PSG as well as the MG present greatly reduced the amount of time spent aligning the CVTESS. If a Platoon needed assistance the VCs would get the information and train their people.

6) Mr. Dave Rogers is attending the System Safety Working Group for the ECPII Bradley.

c. AMPV.

1) SFC Tyler and SFC Shepherd are supporting the AMPV Soldier Machine Interface Review this week, in Sterling Heights, MI. Details of this review are included in next week's SITREP.

2) AMPV Team participated with the Reliability, Availability and Maintainability (RAM) IPT. Discussions focused on APMV Mean Miles Between System Abort (MMBSA) and Essential Function Failure (MMBEFF). The team also provided a detailed discussion of BFV ECP2 test results and the process to incorporate these results into AMPV predictions. The next RAM IPT is tentatively scheduled on 26 July 2016 and will focus on reliability test planning.

3) The AMPV Team also participated in the Development Testing IPT. PM AMPV presented a detailed test schedule reflecting a time period out to the First Unit Equipped (FUE). The IPT discussed planning for corrective action procedures of test vehicle(s). The group also discussed the latest updates to the verification process and how European initiatives will affect testing. The next T&E WIPT is tentatively scheduled for 8-10 Aug 2016 with the likely location of APG, MD.

4) The AMPV team will attend the AMPV Critical Design Review (CDR) next week in Sterling Heights, MI. The CDR is a significant program event where the OEM presents their ability to produce the AMPV and the Government provides approval for production of Engineering, Manufacturing and Development (EMD) vehicles. The AMPV program plan includes 29 EMD vehicles, used for further testing and developmental requirements.

d. Formation and DOTLPF Integration:

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

a) Provided input into the Level of Protection and Mobility for the Tactical Wheeled Vehicle (TWV) Fleet Study being conducted by TRAC Leavenworth. This input cross-walked specific Tactical Wheeled Vehicles with their mission role within the formation. Projected completion of this ongoing study is FY17.

b) Phil Tiemeyer is attending the BMC hosted CMD Post summit at Fort Bliss, this week. This summit will develop an understanding of the current Mission Command / Command Posts status, across the Army and outline a strategy to achieve CP2040. This is accomplished

through working groups, divided into functional areas to facilitate a professional discussion on critical issues and problem areas. Each working group will generate initiatives, near-term, mid-term, and long-term, which will contribute to the strategy for achieving CP2040. This is accomplished by leveraging existing, known technologies (DOTMLPF) and long-term goals (through 2040) with R&D recommendations.

c) The network team will host a meeting with TCM Fires Cell (FCoE) 29 Jun 16. Participants include Mr. Miller (Director TCM ABCT) and Mr. Wehri (Deputy TCM FC). This working session will assist in supporting Fires network architecture design efforts and align these within the ABCT.

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

a) Team TLS provided DOTMLPF-P mitigation strategies in support of the Degraded, Denied, and Disrupted Space Operations Environment (D3SOE) working group for the upcoming Army Lessons Learned Forum GOSC on 15 June.

b) Team TLS developed several electronic surveys aimed at collecting operational feedback from key leaders in ABCTs addressing challenges faced by infantrymen who perform crew duties on the Bradley Fighting Vehicle. The surveys were distributed by III Corps on May 24th.

c) We have a TLS Lead supporting data collection events with CALL as part of a Collection and Analysis Team (CAAT) observing 1st Brigade, 3d Infantry Division during Operation Anaconda in Poland (5-16 JUN).

d) We have two SMEs (TLS and Sustainment) collecting data during the 1/34 MNARNG rotation at NTC 16-07 (15-24 JUN).

e. Large Caliber Ammo:

1) Mr. Kuamoo monitored live fire exercises at Ft Irwin, CA, for NTC Rotation 16-07. Firing unit is 1/34 ABCT, MNARNG. No issues encountered at this point.

2) Mr. Kuamoo provided a final informational document pertaining to a Gun Tube Fracture (GTF) and a Gun Tube Bulge (GTB) incidents at Ft Carson, CO. Reports, comments and historical information from several organizations involved with this investigation point to earthen material in the gun tube as the primary contributor. However, crew statements indicated no gun tube strike seen. Mr. Kuamoo continues to work with 4ID for best possible resolution pertaining to this issue.

3) Mr. Kuamoo continues work efforts with 8th Army Korea on range improvements to best contain fragments from leaving the modified Surface Danger Zone (SDZ). Prototype dimensions of berms to be used on the range has been made available for our initial analysis. An on-site visit is being planned in early August.

f. Futures Integration: The Futures Team continues preparation for the ABCT Operational & Organizational (O&O) Development SIMEX scheduled 25-29 July at the MBL. This is a human in the loop experiment that will focus on the development of the ABCT O&O and help ensure the future force reflects the required capabilities and core competencies capable of operating within the tenets of the Army Operating Concept in 2030.

g. Systems, Sustainment and Logistics Integration:

1) Mr. Tysor and MAJ Polak are attending the Synthetic Training Environment (STE) Working Group (WG) via teleconference in partnership with MCoE DOTD members to help provide operational insights and user perspective guidance on how the future collective training device requirements should be scoped. TRADOC Capability Manager Integrated Training

Environment (TCM ITE) is hosting the teleconference with all other CoE stakeholders involved with the team working towards single purpose of developing draft KPP requirements for the future STE. These requirements will drive the future replacement for the Army's collective maneuver trainers such as the Close Combat Tactical Trainer and the Aviation Combined Arms Tactical Trainer and will support the current Combined Arms Training Strategy (CATS) for units virtual collective maneuver training.

There are follow-on planned WGs to refine remaining STE requirements, mature the strategy, and develop cost estimates prior to briefing the consolidated TRADOC STE strategy at the Fall TGOSC in November.

2) MAJ Polak attended the M88 HERCULES Program Management Review (PMR) last week and provided an update on the ABCT formation DOTMLPF capability gaps as they pertain to the current recovery support systems. He also outlined the top three prioritized capability upgrades to the system that will provide the most benefit to the ABCT organizations and provided the current TCM ABCT assessment of recent two vehicle tow testing. As M88 modernization efforts move forward, both CASCOM and TCM ABCT are synchronized in prioritization of efforts thus ensuring unity of effort from the proponent and user community. The DASC office provided an update stating that the POM has been internally locked with results to be officially released soon. At this time, it is unsure if PdM Recovery Systems will be fully funded due to other priorities in the Combat Vehicle Portfolio but the program office has historical proven success in obligating their funding which is important and will assist the office in acquiring other end-of-year unobligated funds if needed.

h. ARNG LNO:

1) 1/34 ABCT (MN ARNG) is currently conducting NTC 16-07. Mission Operations are scheduled 11-24 June. Expected rotational highlights are: 13-21 June, rotating 6 day Force on Force/ 3 day CALFEX beginning with TF 1-145 AR, TF 1-194 AR, & TF 2-136 IN; 22-24 June, BDE Force on Force exercise; 25-28 June, recovery operations with 3 Phase Main body departure ending 28 June. MNARNG Post NTC AAR34th DIV Strategic Review) scheduled for 17-18 Sept at 34th DIV HQ in Min/StP.

2) 3ID CATR training cell is considering moving part of their training staff to Ft Benning. 2 of the instructors being considered are ARNG. Working administrative aspect of moving these 2 NCOs to Ft Benning.

3) Pre-NTC brief to 155th ABCT MS ARNG has slipped to the right due to schedule conflict in Sept. Drill dates for 1st Qtr FY17 being worked at 155th for best time for max senior leadership engagement.

2. RECON.

a. R&S Concepts and Analysis:

1) R&S BCT Implementation: NO CHANGE: TCM-Stryker continues to lead the 1/4 SBCT R&S BCT Excursion. We will continue to collaborate with TCM-Stryker and 1/4 SBCT to complete mission analysis and begin development of the MCoE support plan for the R&S BCT Excursion.

2) Standard Scout PLT O&O: Standard Scout Platoon O&O Coordinating Draft is in staffing with FORSCOM, ARCIC, and TRADOC CoEs. Additionally, the coordinating draft was posted on RKN for review and distributed to MCoE leaders and select cavalry SMEs across the force for review. The suspense for input to TCM Recon is 1 July 2016. TCM Recon is tentatively scheduled to brief CG, MCoE on 18 July for O&O approval.

3) Cav Troop O&O: Currently in the process of writing the O&O, anticipated completion of the first draft is JUN 2016. Editing, staffing and approval will occur (T) JUL-SEP 2016.

4) HHT O&O: NO CHANGE. To be written (T) JUL - AUG, editing, staffing and approval (T) SEP-NOV 2016.

5) R&S CBA: ~~NO CHANGE~~. The Functional Solutions Analysis (FSA) was submitted to ARCIC on 11 April 16. TCM-Recon received ARCIC validation review Comment Resolution Matrix (CRM) on 4 May. TCM-Recon conducted primarily administrative revisions to the FSA EXSUM and Report, and returned to ARCIC with the adjudicated CRM on 24 May; ARCIC staff indicated there were no further issues with the adjudicated CRM and the FSA is pending GO availability for approval. After ARCIC approval, TCM-Recon conducts follow-on effort to update Capabilities Needs Analysis (CNA) database with R&S CBA gaps and solutions. Currently developing tracking methodology/system to update gaps based on implemented/fielded solutions and track new solution ideas.

6) Support to Unified Challenge 16.2: The UC 16.2 Campaign of Learning Analysis Issue Review Board was conducted on 6 June. TCM Recon's experiment issues link to the draft movement and maneuver concept four themes: Cross-domain maneuver, Realized mission command, Integrated wide area security, and operating semi-independently. The introduction of the "new" of the Movement and Maneuver Functional Concept has created discussion within the CoP to dropping the base case O&O assessment in order to analyze future O&Os in a PHIIIB scenario using the CoP submitted questions as well as assessing the O&Os WRT the M&M Functional Concept. Week 2 would use the same framework, however done with a PHIIIA scenario. At the moment the base case is expected to be the R&S BCT IAW the published O&O; the advanced case is anticipated to be the Cavalry Group as portrayed in UC 16.1. The mid planning conference is scheduled for 16 June and there should be more clarity as to the scenarios/vignettes at that time. UC 16.2, 1-12 Aug, is the second of three GAMEXs designed to help refine O&O development and drive analysis of the A2020 force. TCM Recon's anticipated support requirements are still TBD at this time.

7) 2025 BCT O&O SIMEX: TCM-Recon will observe the three BCT O&O SIMEXs (11-15 JUL SBCT, 18-22 JUL IBCT, and 25-29 JUL ABCT) and participate in key events to gain insights and provide CAV SQDN O&O SME to each formational TCM. TCM Recon will examine each BCT's Cavalry Squadron and battalion mounted scout platoons based on recent Cavalry O&Os.

8) Scout Sensor Strategy: NO CHANGE. Continuing to work with MRD, BCT TCMs to refine the scout sensor strategy. There is no suspense, however the sooner completed, CDID has a document to synchronize efforts between the BCT TCMs, MRD and CDD. The strategy will support future scout platoon FDUs as well as potential mast mounted sensor development.

9) Cavalry Scout Leader and Solder Competencies: NO CHANGE. Requires time 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.

10) TCM-Recon participated in and collected observations during demonstrations for the VAWD Sense Through Obstructions Remote Monitoring System (STORMS) Micro- Doppler Radar Focused Assessment (FA), 7-9 Jun, and the Dynetics C-UAS demonstration, 10 Jun; both technologies are in initial development stage, and show potential, through further research and demonstration, to mitigate situational awareness and C-UAS gaps, respectively. Initial recommendation on the STORMS radar is to pursue integration of the technology on current systems to reduce cost, weight and requirement for additional equipment.

11) TCM-Recon is working with 3-16 CAV to support the next Recon Council scheduled for 28 JUL 16.

b. Senior Leader Updates.

- 1) 1) CoAR Inbrief: TCM-Recon will provide an initial inbrief to the CoAR, 20 JUN 16.
- 2) (T) 18 JUL 16: TCM-Recon conducts Scout Platoon O&O Approval Brief to the CG, MCoE for approval to publish the PLT O&O.

c. CATR: Priority immediate efforts include completing the review of the CATR Materiel Fielding Plan, CATR Life Cycle Sustainment Plan and preparing a memorandum for PM Terrestrial Sensors outlining CATR Training Support Package sufficiency, and identifying critical actions that should inform the August 2016 CATR Materiel Fielding Decision. Near term priority actions include preparing a NET Plan, developing a Test and Evaluation Master Plan, developing the ECATR Requirements document / MOA and identifying required CATR ASIOE and TMDE. CATR lines of effort include:

- 1) CATR Technology Refresh: Established MILSUIE collaboration site for units to provide recommendations for tech refresh to facilitate preparation for first tech refresh window in FY18.
- 2) CATR Evaluation Report: TCM-Recon received the draft Army Test and Evaluation Command's CATR evaluation report this week and are reviewing.
- 3) CATR O&O: NO CHANGE: Review of the initial draft of CATR O&O continues. Awaiting inputs from copies sent to division representatives. The O&O will support the development of the training strategy and efforts with PdM.
- 4) CATR Lesson Plans: NO CHANGE. Providing support to DOTD for the development of CATR CONOP and software lessons plans.
- 5) CATR BOIP: NO CHANGE. Awaiting GOSC approval of the Organizational Requirements Document Approval Briefing (ORDAB) council of Colonels recommendation to approve the CATR BOIP.
- 6) CATR New Equipment Training workgroup: TCM-Recon, DoTD, and CATR SME's reviewed five CoA's for CATR operator training. These COAs will be discussed with PdM-GS with the Material Fielding Plan and Life Cycle Sustainment Plan review.

Upcoming Events.

a. ABCT

- 05-16 Jun - Unit visit to 1/3ID @ Anakonda 16 (Drawsko Pomorski, Poland)
- 06-17 Jun - Abrams SW 4.6 Beta Test (APG, MD)
- 13-17 Jun - Command Post Summit (FBTX)
- 15-24 Jun - Force on Force Coverage of NTC 16-07 (1/34 MNARNG) (FICA)
- 15-24 Jun - LP CROWS Technical Manual VAL/VER (Picatinny Arsenal)
- 20-23 Jun - Abrams APS IMOD Start of Work meeting (TACOM)
- 20-24 Jun - AMPV CDR (SHMI)

b. RECON

- 16 JUN: UC 16.2 Mid Planning Conference
- 20 JUN: CoAR Inbrief
- 27 JUN -2 JUL BCT O&O TTX, MBL (FBGA)
- 30 JUN: Desert Chance Community of Interest Day on C-UAS (YPG, AZ)
- 5-8 JUL: BCT SIMEX MRP Training and Certification (LTC O'Steen, MAJ Dunn)

- 11-15 JUL SBCT O&O SIMEX, MBL (FBGA)
- 13 JUL: UC 16.2 Final Planning Conference
- 18-22 JUL IBCT SIMEX, MBL (FBGA)
- 18 JUL: PLT O&O Approval Brief to CG, MCoE
- 19-21 JUL: 16.2 Rehearsal of Concept, MBL (FBGA)
- 21-22 JUL: ABCT MRP Planning Window (LTC O'Steen, MAJ Dunn)
- 25-29 JUL ABCT SIMEX, MBL (FBGA)
- (T) 28 JUL: RECON Council
- 01-12 AUG: UC 16.2 Execution

Email Members of TCM-ABCT/Recon's staff:

Director: [John W. Miller III](#)
 Military Deputy: [LTC Ken Reed](#)
 TCM - ABCT SGM: [SGM Quentin Barber](#)
 TCM - Recon: [LTC Darrell O'Steen](#)
 XO, TCM - Recon: [Pete Rose](#)
 DOP/AMPV/MC Team: [Ron Kuykendall](#)
 TLS Team Lead: [Carl Johnson](#)
 Abrams Team Lead: [LTC Rudy Grimes](#)
 Bradley Team Lead: [George Moore](#)
 'Other Systems' Lead: [MAJ James Polak](#)
 Sustainment: [Stephen Harper](#)
 Engineer/Field Artillery: [MSG Myron Kennedy](#)
 Futures: [Rhett Griner](#)
 Large Caliber Ammo: [Wakeland Kuamoo](#)
 ARNG Representative: [MAJ Jacob Dunn](#)
 Office Admin Contact: [Ms. Shelelia Wynn](#)

Office Mailing Address: TCM-ABCT and Reconnaissance (ATZB-CIA)
 7533 Holtz Avenue, Suite 4090
 Fort Benning, Georgia 31905
 Office Number: COMM: 706-545-4461 DSN: 835-4461