



TCM-ABCT & RECON SITREP

27 September 2016

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1. ABCT

a. Abrams.

1) SFC Williams is in Warren, MI from 12-30 September to meet with PM Abrams and attend the validation and verification of Software 4.6. The team will also update technical manuals for the ADL and Low Profile Crows.

2) The Abrams Technical Advisor and Abrams Master Gunner attended the Abrams SW 4.6/M829A4 accuracy live fire event at APG, MD. During pre-fire preparations, we identified maintenance issues that prevented us from conducting the live fire. Event has been rescheduled for 6-7 October.

3) The Abrams Technical Advisor and ATCM are attending the Abrams ECP 1B Systems Readiness Review from 28-29 September in Warren, MI. While in Warren, they will also monitor the Trophy APS Accelerated Characterization (TAAC) Design Review-2 which will be conducted on 27 and 28 September.

b. Bradley.

1) Mr. George Moore attended an information brief presented at the Benning Simulation Center that provided a layout of requirements for installation of the COFT. One of the bay's sub-floor wiring systems was removed when the BATS was removed last year. The wiring system required for COFT installation will be harvested from Bldg 5500 (old MG school) when those systems are moved to the Clark Simulations Center. The remaining BATS systems at Clark Simulation Center will be replaced with Delivery Order 4 of the COFT contract in place to pure fleet the Army.

2) Mr. George Moore has completed coordination to receive the Bradley Reactive Armor Tiles (BRAT) for the training video that begins development on 11 October.

3) SFC Shepherd and Dave Rogers attended classified and unclassified briefings on Raytheon's Quick Kill (QK) Active Protective System (APS). Representatives from MRD (MPF, VPS/APS programs), Maneuver Battle Lab, TARDEC, and TCM SBCT were present to receive upgrade updates from Raytheon on their QK APS 2.0, an upgraded version of their 1.0 system. The 2.0 system maintains the same performance capabilities as the 1.0 system but with better SWaP-C and lower cost reduction. Raytheon's QK 2.0 system is currently at a TRL-5 level with a plan to reach TRL-7 in FY2018.

4) SFC Shepherd assisted the Maneuver Battle Lab with identifying and establishing ammunition DODICs within the ABCT formation for the Bradley and Abrams combat vehicles. These DODICs were matched against various peer threat vehicle types that would deliver effects on them. The pairings will be sent to AMSAA for receipt of model and sim data for the upcoming Unified Challenge 17 SIMEX.

5) The Bradley Senior Technical Advisor is attending an APS Start of Work meeting at BAE. The purpose of the meeting is to review the schedule and characterization plan for the NDI APS solution for Bradley. BAE, PdM Bradley and TARDEC engineers will develop the A-kit. General Dynamics will provide the B-kit and LRU's. Design Review 1 will be held on 19 December.

c. AMPV.

1) The AMPV Team will participate in BAE Human Factors Evaluation in Sterling Heights, Michigan from 18-20 October. This event is a follow-on to the group's visit earlier this month to evaluate the driver vision sight lines and the third mission command workstation and will evaluate the vehicle commander's weapon station.

d. Formation and DOTLPF Integration:

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

a) The team continues its support to the DOTD Doctrine department in reviewing BCT standard METL supporting collective task(s) at CO, BN, and BCT level. The next meeting is 29 September at 1030 in MWH, Room 2018 with reviews of counter-mobility and survivability tasks at BN and BCT level.

b) The team is planning for its participation in NTC 17-01, where 3/1CD will execute a decisive action rotation to prepare for future deployed requirements. Mission Command, Doctrine, and Training integration analysts will observe force on force activities from 01-13 October. Units wishing to submit DOTMLPF data collection RFIs should submit them by 30 September to carl.r.johnson32.civ@mail.mil

c) We're providing AAR content to 1-29 IN from our participation in the platform mastery workgroup at the Maneuver Conference.

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

a) Ron Kuykendall traveled to Michigan last week to view the AMPV Mission Command mock-up at BAE, participate in a PM Mid-Tier Network Vehicle Radio (MNVR) "Face-2-Face" session at TACOM, and attend the General Officer Network Summit at Selfridge Air National Guard Base. Key points of interest included:

- AMPV MC mock-up. Mr. John Miller joined Ron for review of the AMPV MC interior design. They were able to climb into the mock-up and sit at the workstations and Vehicle Commander's position. This activity provided an opportunity to determine the impact of space claimed by the additional third work station. Surprisingly, it is a good fit with adequate space available for an operator without significant impact to remaining stowage space. Afterwards they reviewed a video comparing fields of view of the DVE-Wide to the current DVE, which was mounted on an AMPV while negotiating a driving course. The DVE-Wide provided a greater viewing area of the vehicle's forward space. The ability for the driver to view right/curbside obstacles while negotiating right turns is a key concern of ours. The DVE-Wide appears to significantly mitigate these concerns.

- MNVR "Face-2-Face" (F2F) discussions. Ron participated in MNVR discussions with representatives from PM Tactical Radios, PM MNVR, Cyber CoE, PM Abrams, AMPV and Bradley. The purpose of this event was to identify any new and verify existing requirements for version 2 of the MNVR CPD. CyCoE, TCM Tactical Radios projects staffing and approval of this document is completed by 4th Qrt FY17. Currently, the CPD will maintain Threshold requirements for WNW and SRW waveforms; with MUOS, SINCGARS, HAVQuick II, HF and other waveforms as Objective. The CPD may also introduce a Threshold requirement to develop a smaller sized radio with an extended operational range of 10-12km. During this F2F event, the group discussed a need for 4 channels (versus current MNVR's 2) for vehicle mounted radios.

This could possibly reduce Platform PMs' integration challenges by focusing on one radio type (MNVR) versus several radio configurations. Ron voiced concerns of waveforms' range and also emphasized that Soldier competence/confidence using multiple new radios remain a concern. The Platform PMs are faced with three options for radios in the near future: 1) Integrate HMS Full Rate Production (FRP) radios with integration challenges associated with three disparate vendor designs along with the MNVR ver2; 2) Redesign to integrate current SINCGARS radios; and 3) Determine if the MNVR ver2 can meet vehicle mounted requirements to become a single vehicle radio solution and replace the HMS Man-Pack design. All three of the options present challenges to the Platform PMs in terms of program Cost/Schedule. Ron will continue to work closely with the network community to insure solutions meet user requirements.

- General Officer Network Summit. Key participants included BG David Bassett (PEO-GCS), Mr. Gary Martin (PEO-C3T) telecon, Mr. Tom Brutosfsky (PEO-C3T), Mr. Doug Wiltsie (RCO, Exc. Dir.), MG Walter Piatt (RCO OPs Dir.), COL Ed Swanson (PEO IEW&S), Mr. Mike Cadieux (DPEO CS&CSS), Mr. Chris Manning (CERDEC) and Mr. Mike Trzeciak (PM PNT). This periodic event provides an opportunity for these organizations to synchronize network and platform integration efforts at the GO level. Key for us is SOSE&I's plan for ABCT's transition to the Objective Network architecture. Key points included:

-- BG Bassett wanted to know what document formalizes the ERI network design and implementation date, and pointed out that we need this to avoid confusion and focus our efforts. This was noted as an action item for the next Land War-Net GOSC.

-- BG Bassett emphasized the need for a "one radio/one vendor" solution for ABCT platforms.

-- Many in the room were surprised that Capability Set fielding will require at least 21 weeks to complete fielding and training per BDE.

-- All acknowledged the Cross-Domain challenge of sharing data between Red and Black boxes on vehicles. Examples include: "Slew to Cue" and VHMS data that is derived from unclassified vehicle/automotive sources but required for use in the classified network and its systems.

-- COL Schirmer highlighted future Soldier challenges created by the mismatch of network capabilities in the units' vehicles and APS vehicles they will use in theater.

Ron will continue to monitor actions resulting from this summit and can provide further detail of this event upon request.

e. Large Caliber Ammo:

1) Mr. Kuamoo has completed his update to the ammunition portion of the Abrams TM. PM-MAS and ARDEC will conduct a final review before submitting to PM-Abrams for publication.

2) Coordination continues for a visit to the NTC during the next rotational live fire event from 11-14 October. Visitors could include an SES who is the PEO for ammunition.

f. Futures Integration:

1) The Futures Team attended the CNA FY16 brief to the ARCIC Director on 27 SEP. The two ABCT extremely high risk gaps included in the brief were the ABCT's lack of IFVs and IN Squads and the ABCT's lack of lethality overmatch. The recommended solution approaches to mitigate these gaps include a force design update to add two Rifle Companies to the ABCT and acquisition of a Next Generation Combat Vehicle (NGCV). CNA FY16 results will be briefed to the TRADOC CG on 14 OCT 16.

g. Systems, Sustainment and Logistics Integration:

1) MSG Kennedy participated in the Next Generation HETS Telecom to help the team discuss requirements for a Materiel Development Decision request memo that addresses payload and transportability. The team also discussed the appropriate strategy to utilize in order to move forward with draft AOA guidance and complete stakeholder staffing prior to presentation to the CSA and ASA (ALT). TCM-T outlined a draft CDD timeline that will allow the team to update the OMSMP and CDD requirements including weight thresholds, terrain profiles, turning radius, speed, and winch requirements to name a few.

2) Mr. Harper attended the CASCOM leadership quarterly Combat Training Center (CTC) top observations DCO. The number one National Training Center (NTC) observation identified was “where on the battlefield does the brigade commander place his Forward Support Company (FSC)”. Additionally, it was pointed out that placement of the FSC, along with FSC roles and responsibilities are not clearly articulated through the organizations. The training center sustainment 07s believe this is the major cause of confusion on how a brigade should best use its BSB and FSC combat enablers. ATP 3-90.5 Combined Arms Battalion, FM 3-96 Brigade Combat Team, and ATP 4-90 Brigade Support Battalion all provide guidance on how to integrate the FSC and where to best place FSC leadership.

3) Mr. Harper has attended the last two NTC rotations and conducted corresponding umbrella weeks identifying the following top two trends: 1) BSB/FSC commanders want to mount weapons on their respected MTV and HEMTT fleet. 2) The CAB FSC distribution sections are authorized the HEMTT Load Handling System 8x8 (T96496). The leadership recommended due to the mission, heavy loads, and the load center of gravity the distribution sections should be issued the Heavy Palletized Load System 10x10 (T40999). The leaders pointed out that the current Load Handling System Compatible Water Tank Rack (HIPPO) and the fielding of the Tank Rack Module (TRM) has created an oversized load that is greater than the Load Handling Systems they are issued creating unsafe operation. The LHS capacities are 20K and the PLS is 35K. The HIPPO and TRM, if fully loaded with liquids, weigh 26K. This clearly puts the capability of the LHS over weight by 6K.

h. ARNG LNO: NSTR.

2. RECON.

TCM Recon completed revisions of the CAV GRP Organizational Design and the Scout Platoon Final Draft O&O in preparation for CoAR approval briefs on 6 OCT 16. Continued finalization of the Close Access Target Reconnaissance (CATR) Materiel Fielding Plan (MFP) and New Equipment Training Plan (NETP); continued this week to prepare for the Materiel Fielding Decision (MFD) currently scheduled for 18 NOV 16. On 29 SEP 16 TCM Recon contractor support is reduced by 20% from five to four contractors with the potential to be increased to 40% at the end of MAR 17 with the loss of the sole CATR contract project officer. The loss in personnel will impact the timeliness of lower priority directed requirements.

a. R&S Concepts and Analysis. O&Os are ordered in priority of effort to write or revise:

1) CAV GRP O&O. TCM Recon completed revisions of the CAV GRP O&O COA for the organizational design and are scheduled to provide approval brief to the CoAR on 6 OCT 16. In addition, we continue to work with MBL to integrate the CAV GRP into the FY 17 Campaign of Learning. We are in discussions with ARCIC to determine the MCCoE/CAC POCs to include the updated CAV GRP O&O into UC17.1 scenario and CONOP development. In preparation for UC17.2, we have about 30 days to provide the key information on the CAV GRP Structure to

ensure the Weapons, Munitions, and Sensors List (WSML) is submitted by 1 NOV to build simulations requirements.

2) Standard Scout PLT O&O. Chief of Armor (CoAR) approval is scheduled for 6 OCT 16. Once the O&O is approved TCM Recon will develop and present a plan to the CoAR for concept to DOTMLPF development handover.

3) Close Access Target Reconnaissance (CATR). NO CHANGE: Completion postponed until Scout Platoon O&O approval process and concept to DOTMLPF development handover are complete, along with TCM Recon end of base year and execution of option year contract tasks are complete (o/a 10 OCT 2016).

4) Cavalry Troop O&O. NO CHANGE: Troop O&O development will resume upon completion of the CAV GRP O&O, Scout Platoon O&O and the Close Access Target Reconnaissance (CATR) O&O. Troop O&O development is anticipated to resume in November.

5) Squadron Separate Company (Tank, MPF, MGS/ATGM) O&O. NO CHANGE: To be written after the completion of the Cav Troop O&O.

6) HHT O&O. NO CHANGE: To be written upon completion of the Squadron Tank Company / Direct Fire Troop O&O. One of the primary functions of the O&O will be to address the lack of standardization between squadron command posts and staffs.

7) R&S BCT O&O. NO CHANGE: The R&S BCT O&O now includes the MCoE standard Operating Environment section; no other revision is anticipated until after the completion of the 1/4 SBCT (R&S) Excursion which will occur in AUG or SEP, 2017.

b. R&S Analysis and Experimentation.

1) TCM Recon attended the Initial Planning Conference for TRADOC's Unified Challenge 17.1 Seminar Wargame 23 Jan – 03 Feb 2017. Several key dates were identified during the review of the GAMEX glide path. TCM Recon also met with MBL representatives to discuss resources required, deliverables and expectations required of TCM Recon in support of UC 17.1. The CAV GRP will be played during UC 17.1 and UC 17.2 and as a result, TCM Recon will participate in Scenario development working group (11-13 Oct) to ensure the scenario appropriately reflects the missions the CAV GRP is expected to conduct. Additionally, TCM Recon will continue to work with MBL to identify and lock-in the organization and capabilities of the CAV GRP within OneSAF. TCM Recon has provided an initial set of Learning Demands for the CAV GRP and will continue to refine those in preparation for the Army Issue Review Board scheduled for 8-10 Nov 16. .

2) R&S CBA: NO CHANGE. For FY 17, TCM-Recon will continue 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. NO CHANGE. TCM Recon provides one O/A for GMV / MPF / LRV assessments, 11-30 OCT 2016.

4) R&S BCT Excursion. NO CHANGE. TCM-Recon will present the R&S BCT O&O during 1/4 SBCT R&S Academy, 15-18 NOV at Fort Carson.

5) Scout Sensor Strategy and Development. NO CHANGE. Updated the Appendix to Scout Platoon O&O based on 9-11 AUG Future Soldier Integration Workshop.

6) Cavalry Scout Leader and Soldier Competencies: NO CHANGE: Once the Scout Platoon O&O is approved by the Chief of Armor TCM Recon will recommend a way ahead for concept to DOTMLPF development process. The actual development process will require 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.

c. Recon Knowledge Network. NO CHANGE. Recon Council: 19 OCT.

d. Senior Leader Updates.

- 1) TBD: CAV GRP O&O Update to the CG, MCoE (postponed from 19 SEP)
- 2) TBD: Scout Platoon O&O Approval by the Chief of Armor

e. CATR:

- 1) CATR Type Classification. Thirty days after PEO IEW&S approval of the CATR LCSP, PEO IEW&S is projected to approve CATR Type Classification.
 - 2) CATR Materiel Fielding Decision. 18 NOV is the dated scheduled for the PEO IEW&S to make the CATR Materiel Fielding Decision.
 - 3) Tech Refresh. Priority action is preparing the prioritized recommendations for tech refresh, identifying requirements based on user recommendations.
- CATR Training: ICW DotD, TCM Recon is developing and staffing training evaluation outlines for NET.

Upcoming Events.

a. ABCT

- 27-29 Sep - Abrams ECP 1B SRR and Trophy APS Design Review (Warren, MI)
- 06-07 Oct - Abrams SW 4.6/M829A4 accuracy live fire (APG, MD)
- 01-13 Oct - Coverage of force on force activities @ NTC 17-01 (3/1CD) (FICA)
- 10-14 Oct - Visit to EUCOM Theater Sustainment Elements (USAREUR)
- 11-14 Oct - Coverage of live fire activities @ NTC 17-01 (3/1CD) (FICA)
- 17-21 Oct - M-1002 Frangible Nose Testing (Yuma, AZ)
- 18-20 Oct - AMPV User Demo / Eval (Sterling Heights, MI)

b. RECON

- 11-13 OCT: UC 17.1 Scenario Development Workgroup
- TBD: CATR Depot Visit (BGAD, KY)
- 12 OCT: CATR NMIB for 1st ID (FRKS)
- 11-30 OCT: AWA 17 O/A for GMV/MPF/LRV (FBTX)
- 17-21 OCT: CATR NET Validation and 101AAslt NMIB CksvlKY & FCKY
- 19 OCT: Recon Council
- 1 NOV: UC17.2 WMSL Input to MBL
- 8-10 NOV: UC 17.1 Seminar Wargame Army Issue Review Board
- 15-18 NOV: 4ID R&S Academy ISO 1/4 SBCT R&S Excursion (FCCO)
- 18 NOV: CATR Materiel Fielding Decision (FBVA)
- 23 JAN – 3 FEB: UC 17.1 (FLKS)
- 7-17 FEB: R&S BCT WFX

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