Interim Brigade Combat Team
Ammunition Logistics
Integrated Concepts Team

Robert Colclough
Ammunition LAR – Ft Lewis

OSC - On the Line

As of 20 Jun 01
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IBCT Integrated Concept Team (ICT) for Ammo

Purpose: To identify and address IBCT ammunition deployment and sustainment issues

– Chartered by DA DCSLOG

Chair: DA DCSLOG Munitions Div (LTC Sue Carlson)

Members:

OSC & AMC
USADAC
CASCOM
TRADOC MSM
BCC

IBCT - 3rd Brigade (2ID)
I CORPS
FORSCOM
HQ AMC DCS-AMMO
TACOM-ARDEC
IBCT Ammunition Support

Many owners & stakeholders
- CINCs - Warfighters and TRANSCOM
- AMC - OSC, FSC, TACOM-ARDEC, HQ DCS Ammo
- FORSCOM - I Corps, Ft. Lewis
- 3 ID/2 ID, then 1ID/25ID
- TRADOC - HQ, CBT Arms Schools, CASCOM, Ord & Trans, BCC
- MTMC
- USAF
- HQDA DCSOPS, DCSLOG

Potential Requirements and Issues
- Installation ASP improvements (Major $) – Double doors in depots
- Purchase and position adequate 463L pallets (Dedicated)
- Purchase and position adequate Flatracks - CROPS (w/tiedowns) (Dedicated)
- Development of approved Bde ammo configured load package drawings
- Building and positioning of Bde ammo packages
- Pre-Positioned afloat Bde ammo packages
**BCT WEAPONS LETHALITY**

**INFANTRY SYSTEMS**
- 5.56mm
- 6.62mm
- .50 CAL

**MORTAR SYSTEMS**
- 60mm
- 81mm
- 120mm

**ICV SYSTEMS**
- 40mm
- .50 CAL
- 7.62mm
- JAVELIN

**MGS SYSTEM**
- 7.62mm COAX
- MAIN GUN

**AT SYSTEMS**
- TOW

**ARTILLERY SYSTEMS**
- 155mm

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Non-Lethal Capabilities – (Fires & Effects Coord Cell)
- Info Opns (FA 30)
- PSYOPs Off/NCO
- Electronic Atk Off
- PA Off
- CA/Space Ops Off
- BOLT
IBCT MAIN AMMO CONSUMERS

155mm
- 2 x 6 M198
155mm 20/FR?
- HE
- DPICM
- Smoke
- Illum
- Copperhead

120mm Mortar
- HE
- Smoke
- Illumination

120mm PGMM
or
81mm Mort
- HE
- Smoke
- Illum
or
60mm Mort
- HE
- Smoke
- Illum

TOW II

105mm Main gun
- Primary HE and
Bunker defeating
munitions

MICLIC
- Volcano 6/FR*
- Mines
- APERS
- AT
- Hornets
- Demo Sets
- Chg’s
- Caps
- Det Cord

Small Arms/Crew Served
- 40mm Grenade Lchr, MG
- 40mm Grenade Lchr, Sgl
- .50 Cal MG, M2
- 7.62mm MG, M60/M240B,C
- 5.56mm MG, SAW

Individual
- 5.56mm Rifle
- 7.62mm Rifle (Sniper)
- 9mm Pistol
- Smoke x 4 Colors

Vehicle
- Hand Grenades
- AT-4’s
- Vehicle Obscurant Ctg’s
- Incen
- HC

Non-Lethal Munitions/Weapons

SO HOW MUCH?
SO HOW MUCH?

- Many factors drive “how much” -
  - How much can they carry? – both to fly with and fit on vehicles
  - How will we sustain them? (Reach back – velocity mgmt)
  - How will we get it to them?
  - How much do we think they will use?
    (Level of intensity – what is the threat in which ammo will be used)
  - How much can we afford? (Lethality & new technology)

- Who Decides?
  - Unit Commanders, Corps, MACOMS, multiple agencies
  - Several draft lists exist, (350 to 468 stons total)
**What is Basic Load?**

What the unit can carry organically

- **TAT** – To Accompany Troops – Enough to be carried on troops person
  - **Vehicle Combat Loads**
    - **Bulk** – any remainder that can be transported by the units organic vehicles and is not uploaded

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**IBCT specific**

- 2nd **TAT** – additional Small Arms Ammo for squads on LAV’s
  - **Contingency Ammunition** – additional stocks that will Be shipped to the BSB ATP after initial deployment for storage

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RSR’s, CSR’s being developed by CASCOM

Driver of what category and method (platform) of deployment is what will carry the ammo.
IAV VARIANTS WITH HIGH EXPLOSIVES ON BOARD

- Infantry Carrier Vehicle
  - Javelin, AT4, Grenades, 40mm
- Reconnaissance Vehicle
  - Javelin, AT4, Grenades, 40mm
  - Demo Kits
- Mortar Carrier Vehicle
  - 120mm, 81mm, 60mm, AT4, Grenades
- Command Vehicle
  - AT4, Grenades

**Plus FA & Combat Engineers**

- Fire Support Vehicle
  - AT4, Grenades

- Engineer Squad Vehicle
  - Demo Kits, AT4, Grenades
- Medical Evacuation Vehicle
- Anti-Tank Guided Missile Vehicle
  - TOW missiles, Grenades
- NBC Reconnaissance Vehicle
  - AT4, Grenades
- Mobile Gun System
  - 105mm, Grenades
Draft Load plans

- Ammunition Box, 5.56 mm (4x)
- Ammunition Box, .50 cal (20x)
- Ready Rounds Box, 40 mm (2x)
- .50 cal Tripod
- Mk19 Tripod
- Smoke Grenade, Ready L8A1 (24)
- Smoke Grenades L8A1 (2x)
- Javelin
- Entrenching Tools
  - Axe
  - Shovels (2x)
  - Mattock Pick
- Ammunition Box, 40 mm
- Tow Cable
- On-Vehicle Tool Kit
- Pry Bar
- Camouflage Support System
Draft Load plans

- Ammunition Box, 40 mm (2x)
- Camouflage Nets (2x)
- Tarpaulin
- Spare Tire
- M13 Decontamination Apparatus
- Smoke Grenades L8A1 (1x)
- Javelin
- Stowage Box:
  - Grenades, Hand Incendiary
  - Grenades, Hand Frag (rds)
  - Grenades, Hand Smoke (rds)
- Pintle Hook
- Litter, Folding
- Ammunition Box, .50 cal (20x)
- Mine Detection Kit, AN/PSS-11
- Ammunition Box, 40 mm (3x)
What is Basic Load?
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Don’t Forget the Artillery and Engineers

**IBCT specific**

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Driver of what category and method (platform) of deployment is what will carry the ammo.
Interim Brigade Combat Team
Configured Loads

- Mixture of DODIC’s to fill vehicle/troop loads
  - Pre configured because the BSB not staffed to configure tailored loads at the ATP

- Color coded for easy marshalling
- Numbered for quick reference as to contents
- Unique NSN for each load to enhance AIT tracking and Automation system entry

Can include 463L pallets
463L Configured Loads
- Basic Load from Home Station
  - From Depots until transport enhancements in place
  - Requires reloading onto combat/trans Vehicles or CROPS at APOD

Usually limited to 3 stons each

CROPS Configured Loads
- HEMMT-LHS transportable
  - Can be throughput straight to Brigade ATP, then to unit with
    Little to no reconfiguration
  - Most of the present Configured loads
    On PREPO are too heavy for LHS
    - Requires enhancements for Economic air shipment
  - Can be easily containerized for sea shipment
    - Requires LHS or PLS at APOD

Test proposed for Oct 01

Limited to 11 stons of cargo!!!

(HEMMT-LHS)
SHORTCOMINGS OF PRESENT AIR DELIVERY PLATFORMS

Current USAF 463L Pallet

• Capacity limited to only 6000 lbs (vs 10,000) due to platform flexing and uneven weight distribution on aircraft floor
• No forklift pockets – must place pallet on wood risers to allow future forklift pickup
• Doesn’t interface with Army trucks
• Requires heavy Materials Handling Equipment at APOD (K-loader and forklifts)

Potential Solutions:

PLS Flatrack Slippers

Roller Platform For Air Delivery

Enhanced Delivery System – Air
PLS SLIPPER – C17
PHASE I: INITIAL DEPLOYMENT

At Ft. Lewis -

- ABL Stored for rapid upload
- On Notification, Fort Lewis and Bde upload turrets/wpn sys; Bde road marches to McChord AFB

At McChord AFB -

- Bde vehicles upload to Strategic deployment airframes
- Bde deploys with Turret Loads/TAT
- Remaining ABL (bulk) delivered to Bde in desired sequence
- Bde arrives at APOD ready for action

Ch 3 Upload
Moves – How likely?

Ft. Lewis ➔ McChord AFB

TROOP/EQUIP

REMAINING ABL

AO

Ft. Lewis
OR Depot
OR CINC AOR
IBCT AMMO DISTRIBUTION

FLOW CHART

Ports of Embarkation

DLA AMC PLANTS DEPOTS

APOD

AMC

TALCE

APOD ACTIVITIES

A/DACG

TRANS

ATP / BSA ACTIVITIES

THE USER!!

DELIVERS TO...

MILITARY TRANS...

APOD ACTIVITIES
PHASE II: IMMEDIATE RESUPPLY
(DAYS 4 - 10-30)

The Brigade and its ABL are in country and engaged, now -

➡️ Ammunition Sources:

• CONUS Depots (AMC IOC Depots)
  – Depots will require 463L pallets/CROPs and approved Bde configuration drawings on-hand
  – Depots build Bde configured loads
  – Depots move configured loads to supporting airfield
  – Air Force uploads configured loads and delivers them to Bde APOD

• In-theater stocks (CINC), Intra-theater air, or surface (METT-T Dependent)?

➡️ Conditions: (Still limited to C-130)

• Must still be in configured loads (463Ls or CROPs on slippers) (*)
• Must arrive at ATP on LHS-compatible flatracks (weight)
• Theater has no (or limited) ammo lift or distribution assets at or near Bde AO
• The BCT is competing with DOD-wide activities/distractions
• Retrograde of partially/consumed ammunition 463Ls/CROPs (*)

(*) This is critical since the ATP has no capacity to reconfigure and combat units have no internal log support

BDE MAY RELOCATE
PHASE III: SUSTAINMENT SUPPORT
D+10-30 THRU END OF MISSION

The Brigade is established-- may or may not be autonomous.

➡ Ammunition Sources
  • Intra-theater stocks (CINC)
  • Pre-positioned afloat ships (AMC FSC)
  • CONUS depots (AMC MAC depots)

➡ Conditions
  • In-theater distribution system established
    - GS ammo spt in-theater/ISB
    - Heavy Lift Platoon at Theater SPOD
    - DS ammo spt near Bde AO
  • LOGCAP Activated
  • Must still be in LHS flatrack-configured loads
  • Prepo afloat ships in need a new set of Bde compatible (LHS) SCLs?
  • Recovery and retrograde of empty 463L pallets and flatracks
  • Situational awareness enablers promote (re) supply capabilities
  • The BCT continues to compete with DOD-wide Activities
AREAS OF SPECIAL INTEREST

PRECISION MUNITIONS

• SUPPLY
• TRANSPORTATION
• FIELD STORAGE
• RETROGRADE

SECURITY
• IN-TRANSIT
• IN STORAGE

INFORMATION SYSTEMS

• REAL-TIME REQUISITIONING
• FOXHOLE-TO-FACTORY INFORMATION SHARING

RML = HORIZONTAL/VERTICAL REAL-TIME INFORMATION PIPELINE
IBCT AMMO ACTIONS IN PROCESS

◆ Ammo Basic Loads
  • Composition
  • Where Built
  • Where Stored

◆ IBCT Ammo Consumption Rates (5 tons per day?)

◆ Develop Preconfigured Load Packages (463L/CROPS)

◆ How will the CINC’s Support

◆ Design lighter, rugged, smaller packaging

◆ Ammo Support within FXXI Combat Units (No organic CSS)

◆ Integration with AOE Forces

◆ Precision Munitions (Mgt, Control, Security, Safety)

◆ Information Systems (real time requisition, Asset vs ITV)

◆ Transform Ammo Logistics for the Objective Force
IBCT AMMO ACTIONS IN PROCESS

◆ Establish a quick reaction sustainment system (in process) at Tier 1 depots (airfields, commo, visibility to customers – battle books)

◆ Develop a Brigade Oriented “Direct Delivery” test – From the POST/DEPOT TO THE UNIT
  - Train as we intend to deploy and sustain (CROPS/463L pallets). 1st Test proposed for Oct 01.

◆ Establish and maintain a new item fielding database

◆ Non-Lethal Munitions –
  - Training items (Availability)
  - Deployment Packages (Sets, Kits and Outfits)
  - Fielding Schedules?
Interim Brigade Combat Team
Ammunition Logistics
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QUESTIONS?

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OSC - On the Line