ORDNANCE AMMUNITION THE FUTURE PERSPECTIVE

COL MICHAEL T. McBRIDE

Deputy Commander / Chief of Staff
US Army Ordnance Center and School

Presented to:

Precision Strike Association/NDIA
Armaments Technology Firepower Forum

11 June 2008

GO ORDNANCE!



PURPOSE



BLUF: OD Corps continues to execute core competence to ARM THE FORCE and work with the total ammunition logistics community to support Soldiers and shape the future of ammunition logistics

BRIEFING OUTLINE

- OD Ammo Team
- OD Corps in Sustainment Center of Excellence
- Change in OD Corps Support
- OD Ammo Vision 2030
- OD Ammo Log Collaborations/Initiatives



ORDNANCE CORPS AMMO TEAM



Chief of Ordnance – Proponent, Deputy CDR CASCOM **Ordnance Center and Schools**

- Ordnance Mechanical Maintenance School
- Ordnance Munitions and Electronics Maintenance School w / TRADOC Munitions System Manager Office OPCON

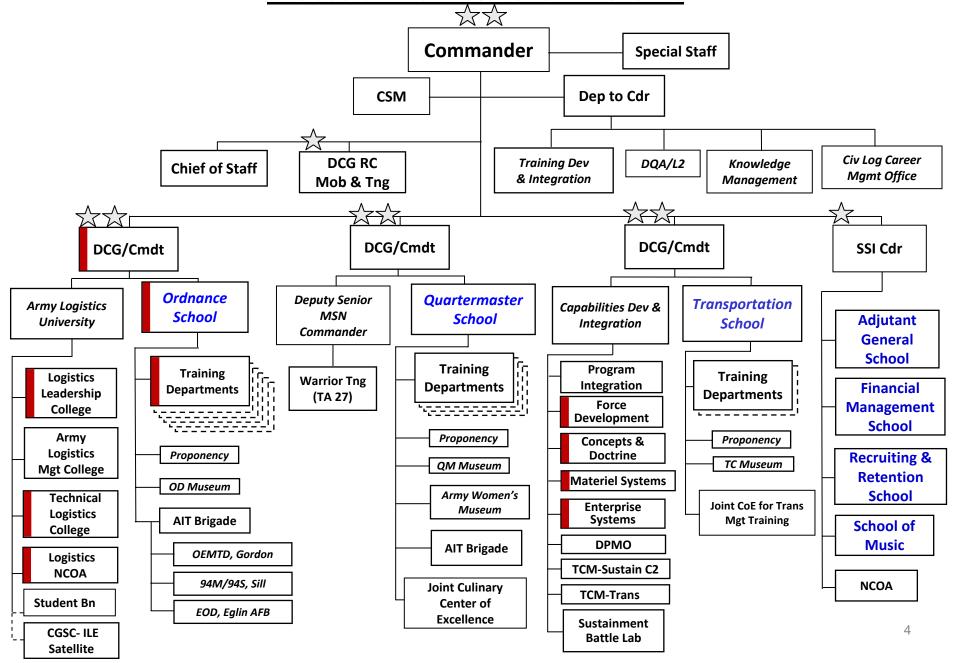
Combined Arms Support Command

- Capabilities Development and Integration
- Training Development

<u>WE ARE</u> – Ammo <u>Doctrine</u>, <u>Organization</u>, <u>Training</u>, <u>Materiel</u>, <u>Leader Development</u>, <u>Personnel</u>, <u>Facilities</u> (**DOTML-PF**)

<u>CASCOM</u>

The Sustainment Center of Excellence





FROM OUR FOXHOLE - NOW



- Army Transformation (BCT, SB, ESC, TSC) is working
- Multifunctional Logistics is necessary and also working
- Ammo Modular Unit Organization a success story
- Ammo Soldiers
 - Building the force to meet Transformation
 - Training Ammo Soldiers to be Mod Force experts
 - Leader Dev OD ammo officer Tng/PD a challenge
 - Unit-level proficiency an on-going challenge
- Ammo Logistics Support Teaming Improving with great coordination from Army, JMC/DAC, PEOs, ARDEC ammo log leaders



HISTORICALLY



WE HAVE **ALWAYS** BEEN ABLE TO:







RECIEVE



STORE



ISSUE

And ... The OD Corps has been a leader in Log Innovation!

- Maneuver Oriented Ammo Distribution System 1987
- ●MOADS PLS 1989
- Container Roll-on Roll Off Platforms (CROPS) 1997
- Modular Medium/Heavy Ammo Platoons 1994 concept
- •IBCT Ammo Resupply System 2001 BUT...



EVOLVING MISSIONS INCLUDE





E-2-E Vis/Accountability



Ammo Soldiers in fwd combat resupply opns



Recover-Repkg- Redeploy Issued CL V



Log Self-Protection



Safe Mgt of Ammo / CEA



AMMO SUPPORT - THE TOTAL FORCE



We will support an evolving mix of future forces



Mod Force BCT



SBCT



Future Force

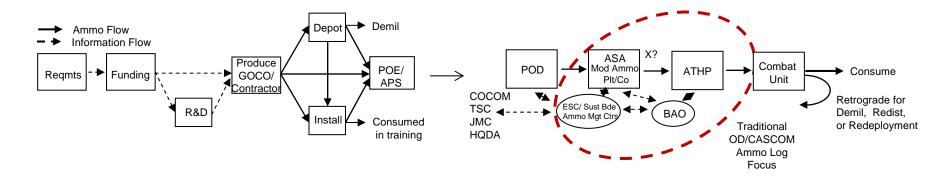
OUR FUTURES CHALLENGE

- •Ammo support to High-Low tech mix of forces for the near-mid future
- With limited budget, less log footprint
- Improved Joint support to other services
- Continued support to coalition forces



Wholesale/retail and Direct/General Support The Lines are fading – FAST





- Ammo Soldiers are operating at combat battalion and lower level
- JMC LARs and DAC QASAS deploy with HQs and sustainment units
- PEOs are rapidly developing and fielding new systems to deployed units
- Contractors perform support missions at all levels including BCTs
- Ammo units are supporting and being trained at installation level
- Experts from all organizations are developing and exchanging LLs and changing TTPs/doctrine, training

The future of ammo logistics requires a new Vision





BACKGROUND

- Ordnance Corps Vision is Dated
 - Pre Modular Force
 - Pre OIF/OEF
 - Considerable change/LL across the spectrum
- Chief of OD directed a new vision

"Answer these 3 Questions..."

- Where are we today?
- What has Changed and What is Missing?
- What do we need to look and be like in 2030?





KEY AMMO ISSUES

- Where (and Who...) are all the Experts? Across the full life-cycle spectrum of ammo logistics
- Professional Development / Military Education
- Skilled BAO teams for the BCT CDR
- Perishable skills lost at home station
- Surveillance & Quality Assurance
- BCS3 vs. MUREP vs. LOGSTAT
- Battlefield Task Migration New missions, new support elements – not all wearing your patch, some civilians
- Ammo Automation MOS New 89A
- •New families of smart, brilliant, scalable, munitions and missile requiring new handling, packaging, maintenance





AMMO WARRIOR 2030

- Officer
- Warrant Officer
- Non-Commissioned Officer
- Enlisted
- DA Civilian
- Contractor
- ●Each with different areas of responsibility and expertise but ALL with a solid tactical and technical understanding of ammunition and ammo support systems. They share a common operating picture of the battlefield and status of ammo.



FROM OUR FOXHOLE THE FUTURE



- Ammo and Ammo Soldiers We will have less of both, they will need to be smarter, multi-mission, rapidly deliverable, safe, survivable, accessible, and completely reliable
- <u>Training</u> Life-long, adaptive, integrated across ammo log
 SME team, best of virtual, on-line, and resident capabilities
- Information Technology Leverage best solutions for ammo accountability, ammo health monitoring, SA, and C4
- Rearm Systems Mobility, survivability, rapid rearm
- Distribution Platforms and MHE Common across the Future Force, designed to fully meet all needs – seamless interface with rearm systems, minimize man-in-the-loop



CURRENT OD AMMO TEAMING



- Army G-3 Munitions Strategic Campaign Plan
- Army G-4 Unit Munitions Visibility, Accountability, Expenditure IPT
- PEO Ammo/PD Joint Services Ammo Logistics R&D IPT Initiative
- ARDEC Dev Team member to review munitions supportability analysis, training requirements
- DAC and CASCOM Training Dev Ammo Training Community of Practice, Knowledge Harvesting
- DAC Theater Assessment Capturing ammo LLs



A PARTING SHOT



FACT - NO MATTER HOW AMMO LOG UNITS AND MANAGERS HAVE BEEN ORGANIZED, TRAINED, EQUIPPED, DEPLOYED, AND UTILIZED - THE ARMY HAS NOT LOST AN ENGAGEMENT BECAUSE OF A FAILURE OF AMMO LOGISTICS

A GREAT RECORD THAT <u>ALL</u> AMMO LOGISTICIANS CAN PROUDLY OWN ...

AND CANNOT LOSE!





COL MICHAEL T. McBRIDE

Deputy Commander / Chief of Staff
US Army Ordnance Center and Schools
(410) 278-3285 (DSN) 298

CW5 DON DEHNEL

Deputy, TRADOC MSM Office, OMEMS (256) 876-9179 (DSN) 746



BACKUP SLIDES



- Definitions
- Briefing Support
- Current Theater Operations
- Army Mod Force Units
- Army Ammo Transformation
- OD Training Overview



DEFINITIONS



AOE Army of Excellence, pre-Mod Force Army organization

APE Ammunition Peculiar Equipment

APS Army Pre-positioned Storage

ASA Ammo Supply Activity, any ASA in theater

ASP Ammo Supply Point, receives, stores, issues ammo to units

ATHP Ammo Transfer and Holding Point, mini-ASP at BCT level

ATP Ammo Transfer Point, AOE Div team to

BCT Brigade Combat Team

CEA Captured Enemy Ammunition

COP Community of Practice or Common Operating Picture

ESC Expeditionary Support Command

E-TO-E Joint End to End distribution process

IBCT Interim Brigade Combat Team

IPE Industrial Plant Equipment





DEFINITIONS (CONT...)



LHS Load Handling System, similar to PLS but on HEMTT truck

MHE Materiel Handling Equipment (forklifts/cranes)

MOADS Maneuver Oriented Ammo Dist System, a distribution-based

ammo spt system that moved Army away from supply point

support

PD Professional Development

PLS Palletized Load System – self-loading truck and platform

system

POD/POE Port of Debarkation/Embarkation

QASAS Quality Assurance Specialist (Ammo Surveillance)

SA Situational Awareness

SB Sustainment Brigade, Mod Force primary support unit

SBCT Stryker Brigade Combat Team

TAV Total Asset Visibility

TMDE Test, Measurement, and Diagnostic Equipment

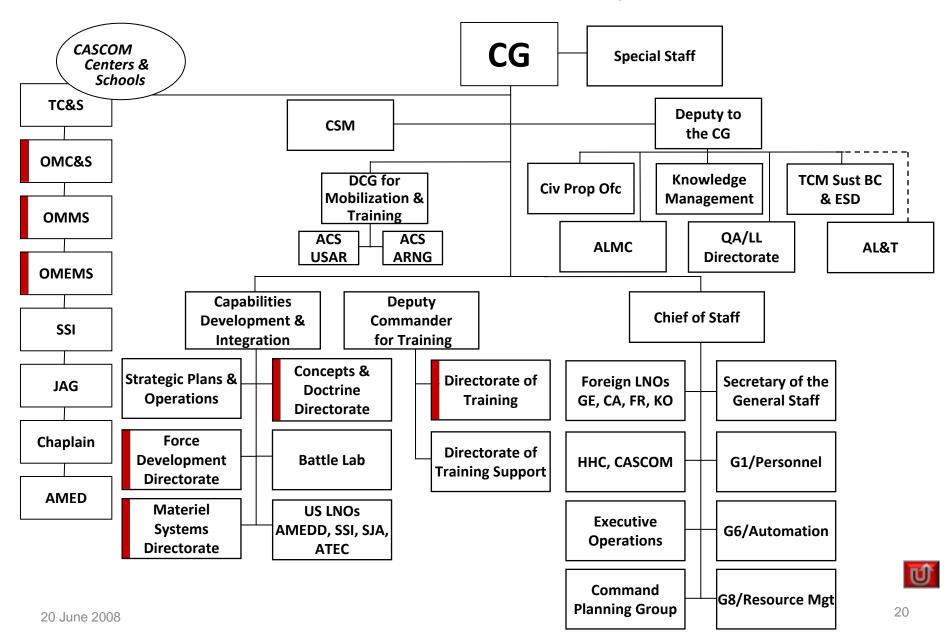
TSC Theater Support Command

TTP Tactics Techniques, and Procedures



Ordnance Ammunition Mission

CASCOM Today





AMMO LOGISTICS



"The Future Ain't What it Used to be"

1988

- •Warsaw Pact
- Extreme Lethality
- Primarily Conv CL V
- Army, Joint/Cbd
- AirLand Battle Force
- Linear Battlefield
- Fwd Based Forces
- Supply Point Log
- Pre MOADS-PLS
- Breakbulk Ammo

2008

- GWOT
- Measured Lethality
- Conv/Precision Mun
- Army evolving to Joint
- •BCT-SBCT- Mod Force
- Non Linear Battlefield
- •Mixed Expeditionary
- Supply Pt/Dist Mixed
- Flex Mod Log PLS/LHS
- CROPS, Mix CL/Single

<u>2018</u>

- •Full Spectrum Threat
- Selective Lethality
- Precision Munitions
- Joint Forces
- Mod/Future Force
- •Noncontiguous
- Joint Expeditionary
- Dist Based Logistics
- CLV Pkg/Auto Rearm
- Constrained Budget
- •Reduced Log Foot

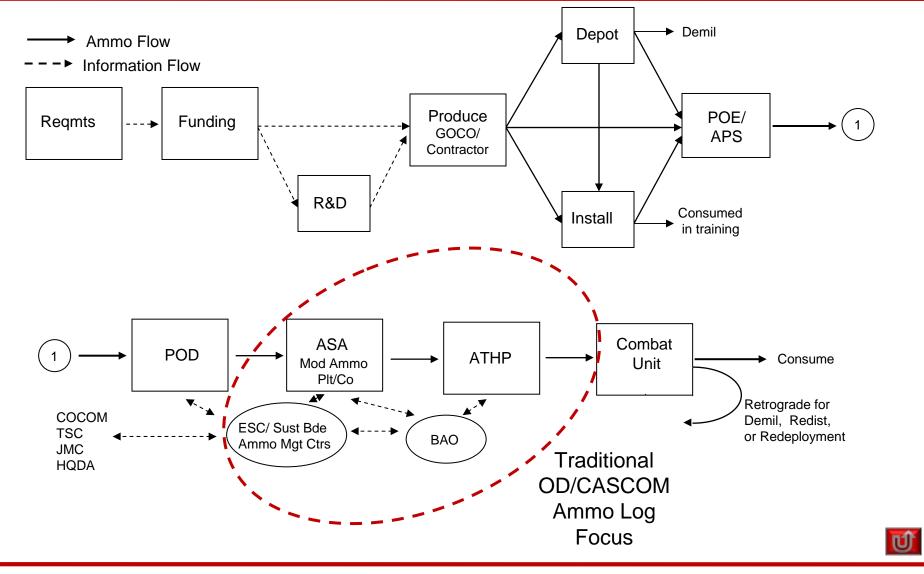
We've come a long way, but - a long way to go...





AMMO LIFECYCLE









CHIEF'S GUIDANCE:

- Three Core Competencies:
 - Maintenance
 - Ammo
 - EOD
- •Bring the full spectrum of ammo stakeholders together Army Staff, DESB, AMC, TRADOC, PEO Ammo, JMC/DAC, CASCOM, OC&S, HRC, USAR, others
- Completed May 2008





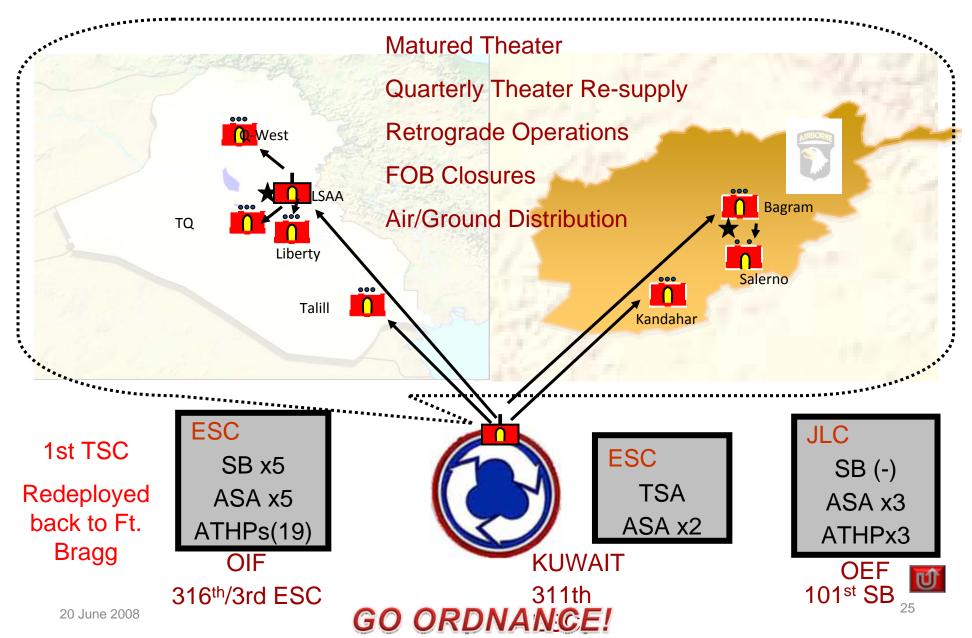


MAJOR TOPICS

- Equipment: Munitions, MHE/APE/IPE, Info Tech, Distribution, TMDE, Packaging/Handing
- Organizations: Integrated tactical to Strategic, Joint, Modular, Split-Based, Full Lifecycle Functions
- Training: Tactical/Technical, core munitions competencies, career-long path, certification, best mix of virtual, web-based, and resident training
- •Reach Capabilities: True TAV/SA, tele-presence, direct, real-time knowledge collaboration/management



Current Theater Ammunition Operations





ARMY SUPPORT UNITS



TSC (3 WO)

1st TSC Ft. Bragg

8th TSC Hawaii

21st TSC Germany

ESC (2 WO)

3rd ESC Ft. Knox

13th ESC Ft. Hood

?? Ft. Lewis

19th ESC Korea

Red is a part of Grow the Army - GTA

Sustainment Bdes (currently 2 WO going to 1)

1st SB Ft. Riley 43rd SB Ft. Carson

3rd SB Ft Stewart 45th SB Hawaii

4th SB Ft. Hood 64th SB

7th SB Ft. Eustis 82nd SB Ft. Bragg

10th SB Ft Drum 101st SB Ft. Campbell

15th SB Ft. Hood 501st SB Korea

16th SB Germany 507th SB

29th SB 593rd SB Ft. Lewis





ACTIVE DUTY AMMUNITION UNITS



- 3 Ord BN-none are true Ord Bn w/numbered TOE Ammo Co's:
 - 80th Ord Bn, Ft. Lewis, WA (to convert to a CSSB w/AAE)
 - 83rd Ord Bn, Japan (to convert to an CSSB w/AAE)
 - 6th Ord Bn, Korea
- 5 Ord Companies CONUS*
 - 8th Ord Co, Ft. Bragg, NC (HQ & 3 plts)
 - 24th Ord Co, Hunter Army Airfield, GA (HQ & 5 plts)
 - 60th Ord Co, Ft. Carson, CO (HQ & 3 plts)
 - 63rd Ord Co, Ft. Lewis, WA (HQ & 3 plts)
 - 664th Ord Co, Ft. Hood, TX (HQ & 5 plts)
- OCONUS*
 - 23rd Ord Co, Germany (HQ & 2 plts)
 - 17th Ord Co, Korea
 - 52rd Ord Co, Korea
 - 84th Ord Co, Korea



^{*}Permanent station - units/plts may be deployed



<u>BCTs</u>



BCTs (48-Endstate)

Ft. Benning (1 - HBCT)

Ft. Bliss (6 – 4 HBCT/2 IBCT)

Ft. Bragg (4 - IBCT(ABN))

Ft. Campbell (4 – IBCT)

Ft. Carson (5 – 3 HBCT/2 IBCT)

Ft. Drum (3 – IBCT)

Ft. Hood (4 – HBCT)

Ft. Knox (1 - IBCT)

Ft. Lewis (3 – SBCT)

Ft. Polk (1 – IBCT)

Ft. Riley (3 – 2HBCT/IBCT)

Ft. Stewart (4 - 2 HBCT/2 IBCT (1 - IBCT))

White Sands Missile Range (1 – HBCT)

Alaska (2 – IBCT(ABN)/SBCT)

Germany (1 – SBCT)

Hawaii (2 – IBCT/SBCT)

Italy (1 - IBCT(ABN))

Korea (1 - HBCT)

Red is a part of Grow the Army - GTA





FIRES AND AVN (CAB) BDES



Fires Bdes (6)

1 – Ft. Bliss

1 – Ft. Bragg

1 – Ft. Hood

1 - Ft. Lewis

2 – Ft. Sill

Avn Bdes (11)

Ft. Bliss

Ft. Bragg

Ft. Campbell (2)

Ft. Drum

Ft. Hood

Ft. Riley

Ft. Stewart (HAAF)

Germany

Hawaii

Korea

Red is a part of Grow the Army - GTA





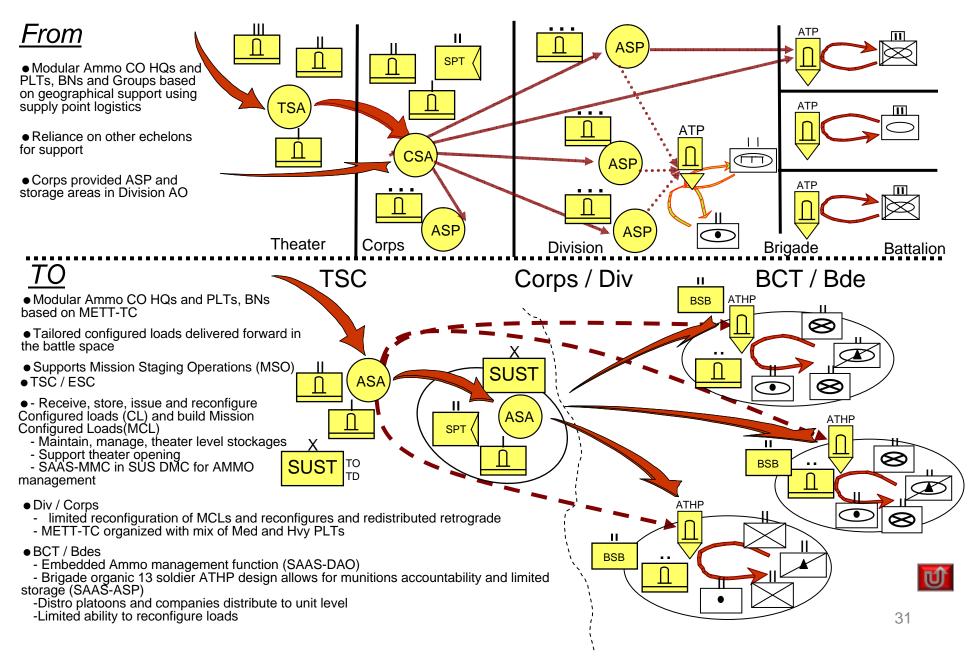
RC AMMUNITION UNITS



- 1 Ammo Group:
 - 303 Ord Group, Springfield, IL
- 4 Ord Bn:
 - 125th Ord Bn, Billings, MT
 - 320th Ord Bn, Lincoln, NE
 - 321st Ord Bn, Cross Lane, WV
 - 322nd Ord Bn, Kenova, WV
- 13 Ord Ammo Co.
 - 163rd Ord Co, Santa Ana, CA (HQ, HLP & MLP)
 - 221st Ord Co, Ft. Wayne, IN (HQ, HLP & MLP)
 - 261st Ord Co, Cross Lane, WV (HQ, HLP & MLP)
 - 266th Ord Co, Aguadilla, PR (HQ, HLP, MLP)
 - 295th Ord Co, Hasting, NE (HQ, HLP & MLP)
 - 351st Ord Co, Romney, WV (HQ, HLP & MLP)
 - 395th Ord Co, Appleton, WI (HQ, HLP & MLP)
 - 452nd Ord Co, Aberdeen, SD (HQ, HLP & MLP)
 - 592nd Ord Co, Billings, MT (HQ & MLP)
 - 802nd Ord Co, Gainesville, GA (HQ & MLP)
 - 811st Ord Co, Rainelle, WV (HQ, HLP & MLP)
 - 826th Ord Co, Madison, WI (HQ, HLP & MLP)
 - 962nd Ord Co, Plattsburg, NY (HQ & MLP)



Transformation - Arm



OK...What's Different at MY BDE Level – AOE vs BCT?

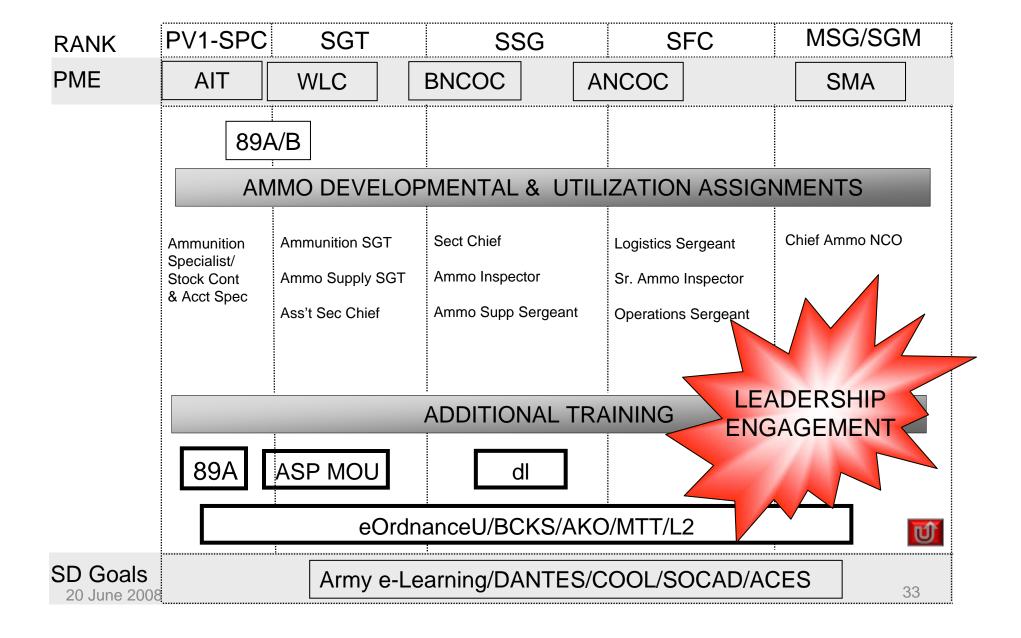
Personnel - 6		Equip	Mission	Capabilities
From DIV ATP	E-6 89B E-5 89B E-4 89B x 2 E-3 89B x 2	SAAS – ATP PLS TRK x 3 PLS TRL x 3 RTFL x 2		"Transfer Point" PLS Flatrack Exch or transload ammo stocks from corps trucks to combat unit trucks.
89B - Ammo Specialist			AOE Division managed/ distributed ammo to bdes	
Personnel - 13		Equip	Mission	Capabilities
TO BCT ATHP	WO2 890A E-6 89B E-5 89A* E-5 89B x 2 E-4 89A* E-4 89B x 4 E-3 89B x 3	SAAS – ATHP MTS PLS TRK x 3 PLS TRL x 3 TRK CGO x 1 RTFL x 2	Provide ammo spt to BCT. Receives mission guidance and priorities from BAO BCT manages, accounts for, and distributes its	"Mini-ASP" Receive, store, Issue, acct for Bde ammo stocks Limited inspection and maint of CL V Stocks. REC/ISS 62 STONS
*89A - Ammo Stock Records			ammunition	STORE 14 STONS

32

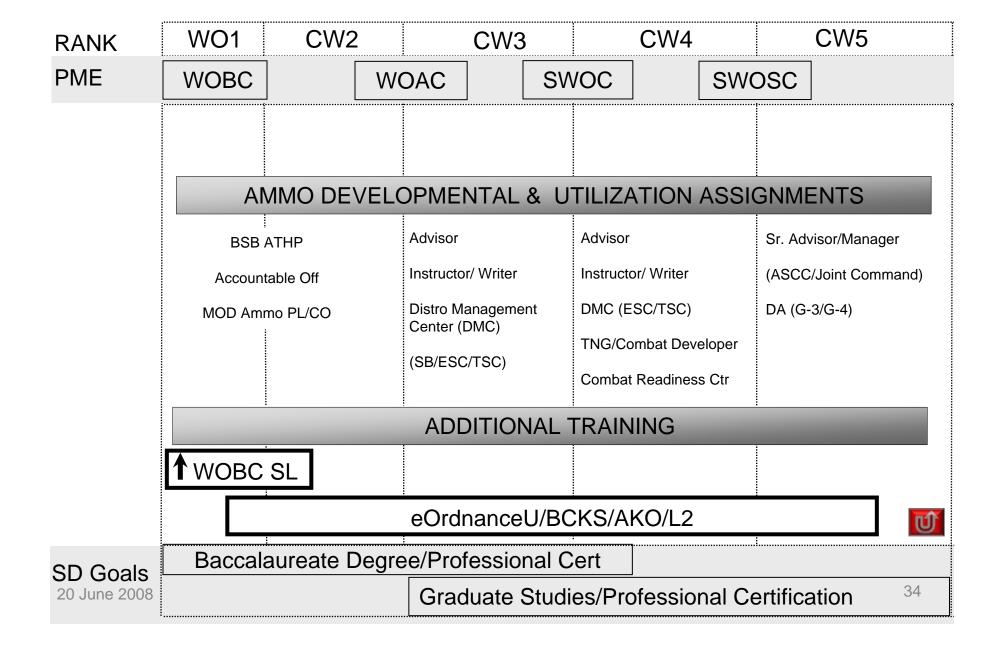
SURGE 138 STONS

and Acct Spec - New MOS

Ordnance Enlisted Training & Development Model



Warrant Officer Training & Development Model



Ordnance Officer Training & Development Model

