Crusader … It’s Not Your Dad’s Combat Vehicle

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**Title and Subtitle**
Crusader Its Not Your Dads Combat Vehicle

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**Abstract**

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15
Transformation In Design

Oct 12, 1999

60 Ton Howitzer

Suspension System

Cardwell
LV100-5

Mobility
(7.0 Tons)

Top Attack Armor

Structure & Materials
(9.1 Tons)

Protection by Kits
(3.9 Tons)

C-17

Doubled Strategic Mobility

Jun 14, 2001

40 Ton Howitzer

Abrams-Crusader
Common Engine

2000
Requirements Provide . . .

**Howitzer**

- Unprecedented Attack System
- State of the Art Cockpit
- Unmatched Soldier/System Survivability

**Track Resupply**

**Wheel Resupply**

- Unparalleled Mobility
- Only Robotic Firing & Resupply Systems in the World
Why Crusader?

Crusader - Paladin
Rate Of Fire
Comparison
A Crusader Kills 48 Targets in 4 min Over 7850 Sq Km . . .

Current FA Employment

Multi-Target Engagements

18 Guns, 216 Targets, 1 Minute

Crusader Firing Excalibur
- Precision Strike .. 50+ KM
- 178% + Area Coverage
- Redskins to Ravens Reach

Sensor To Shooter

One Minute from Request to Effects
Force Augmentation

Albania 1999

TF HAWK ARTILLERY PACKAGE (A/4-27 FA)
- 6 Paladins
- 94 Soldiers
- 12 C-17 Sorties (8 C-5 Sorties)

CRUSADER ARTILLERY PACKAGE
- 2 Crusaders
- 31 Soldiers
- 6 C-17 Sorties (4 C-5 Sorties)

- 50% Less Strategic Lift
- Smaller Logistical Tail
- Greater Firepower

4 Crusaders Cover Kosovo

Asymmetrical Environment
Fire Mission Sequence (1)
Resupply Sequence
First Installment of the Objective Force

Major Theater Of War

Strategic Hedge for the World’s Premiere Armored Corps
- Provides 24 Hr All Weather Fires
- Immediately Available, Never Off Station
- Fires Available in Seconds
- Supports Offensive Operations
- Provides Fires for Total Force

Small Scale Contingencies

Firepower Augmentation for the Interim Force

Leads Development of Objective Force
Design to Objective ...

Crusader...Pathfinder for FCS Technology
- Lethality
- Electrical
- Robotics
- Cockpit
- Mobility
- C4ISR
- Resupply
- Survivability
Crusader Leads Technology Integration

Integration of combat knowledge

- Artillery
- Command
- Maneuver
- Logistics

System of Systems Development
- Tactical Decision Process
- Leader Development
- Soldier - Machine Interface
- Intellectual Capital

Enables Army-Industry Team’s Transition to FCS!
Enabling Technologies for FCS

Logistics Revolution

- Interactive Electronic Technical Manual (IETM)
- Robotic Fault Mgmt
- Log Situational Awareness
- Decision Aids

Advanced Materials & Production

Evolutionary Propulsion

Robotic Firing and Resupply
In Summary . . .

- Unique Design . . . Breaks Paradigm
- Technology Carrier . . . Design to Objective
- Transformation . . . Strategic Mobility
- Gain Overmatch . . . Tactical Agility
- Force Protection . . . Responsive Firepower
- Warfighting System . . . Keeps Soldiers Alive
- Program . . . On Cost, Schedule, Performance

With Crusader, the Army’s Force Wins Decisively ....

First Installment of the Objective Force