



Kinetic Energy Missiles

John Palmer KEM Advanced Systems LOCKHEED MARTIN
We never forget who we're working for™

Net Centric Fire Control Systems

DPC 836647_1 2/7/2006

Forced Entry Operation





Why Kinetic Energy Missiles?



- Defeats The Toughest, Most Sophisticated Targets (ERA, APS)
- Delivers Mega Energy Over Wide Range Band
- Destroys Multiple Target Sets
- Expands The Battlespace Increased Mutual Support
- CE-KE Mix Resistant To Threat Countermeasures

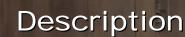




Battlefield Capability To Destroy Enemy Forces At Longer Ranges While Delivering Devastating Target Effects

Compact Kinetic Energy Missile (CKEM)





- <60 Inches Long <100 Pounds</p>
- Novel Lethality System
- Dual Pulse, Minimum Smoke Solid Rocket Motor
- IMU and Control Thruster Guidance



Capabilities

- Extended Range (5-8 km)
- RF Uplink for Existing and Future Comm Links
- Assured Overmatch
- '-'j't-'to-'Kj]]

Spiral Development of Legacy Technology

Net Centric Weapon System

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Situational Awareness (Targeting and Fratricide Avoidance)

Battle Command Management (Platoon, Company and Battalion)

2d GEN FLIR



Commander's Position



Position/Navigation System



Inertial Reference Unit



Remote Display Unit



Distance Measurement Unit

Tactical Communication (Horizontal and Vertical)

SINCGARS/JTRS





Force XXI Battle Command Brigade and Below (FBCB2)

Fire Control System Attributes



- Fills Current Force Capability Gap Areas
 - Network Battle Command
 - Responsive, Precision Fires
 - Joint Interoperability
 - Lethality Overmatch
- Embedded Capabilities:
 - Second Generation FLIR
 - Multi Target Auto Tracking
 - Near Fire And Forget Target Engagements
 - Aim Point Adjust
 - Auto Scan
 - Target Reference Pointing
 - DTV Wireless Link And Remote Operation Hardware Demonstrated

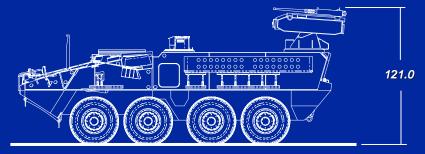


Multiple Platform Capability

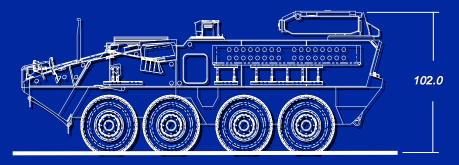


Stryker Weapons System Concept

- Six Ready To Fire Missiles
- High Rate Of Fire
- 3 Man Crew
- Robust Engagement Envelope
- Minimum Chassis Modifications
- Weapon Head Moves In Azimuth And Elevation
- Folds And Stows For C-130 Transport



Weapon Platform Deployed For Engagement



Weapon Platform Stowed For C130 Transport

Summary



- Fills Current Force Capability Gaps
 - Network Battle Command
 - Responsive, Networked, Precision Fires
 - Joint Interoperability
 - Lethality Overmatch
 - Modular, Tailorable Force
 - Soldier/Platform Protection



The Future Is Now!



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