



Kinetic Strike for Special Tactics to Achieve Precision Strike Effects

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OVERVIEW



- Special Tactics Missions
- Kinetic Strike (KS) / Strike Cell Overview and Requirements
- Current KS Limitations
- KS Solutions





Special Tactics Missions

– Global Access

Airfield Seizure/Survey: Contested or Permissive Environments

– Precision Strike

Interdiction (Low-vis recon) / On-target (CAS) / Kinetic Strike (JOC)

– Personnel Recovery

CSAR/Battlefield Trauma + Surgery for US/Coalition Allies and Non-combatants (high risk / danger close)

On-call, precision fire support / CAS required throughout



Kinetic Strike Defined

- Close Air Support: Air action by fixed or rotary-wing aircraft against hostile targets that are in close proximity to friendly forces and requires detailed integration of each air mission with the fire and movement of these forces.
- Kinetic Strike: Lethal air action controlled by dislocated strike cells against enemy time-sensitive targets, and/or high-value individuals (HVI). Detailed integration is required to minimize collateral damage.

*Kinetic Strikes **CAN** Reduce BOG for JTACs + Aircrew*

- Enables indigenous forces to take the lead w/confidence

Kinetic Strike Requirements



“How We Got Here” – Commander’s Trigger

- Multi-Source Intelligence
- Pre-Approved Targeting Authority
- Time-Sensitive or High Value Target of Opportunity

Multiple Reports of Derogatory Information

- Positive Identification: *Reasonable Certainty*
- Low Collateral Damage Environment
- Strike and ISR Platform(s) to F3EA while simultaneously providing collateral concern scans (dual-sensor preferred)

Kinetic Strike Requirements (2)



JTAC Requirements

- ROE and Weaponneering
- Digital/Voice Communications Architecture
Chat / SATCOM / Strike Bridge
- Two or more strike assets bolstered by long-loiter ISR
- Precision-Guided Munitions

Shooter / Eyeball / Goalie / PLA / Scan + Squirter and
Reattack Gameplan

...Typical Kinetic Strike Package



Kinetic Strike Limitations

Cost and Lack of PGMs

ROE requires PGMs...enemy discipline requires 1x PGM/man

- Negative influence on weaponeering + targeting decisions
- Feeds greater BOG footprint / combat timeline / accountants

Sonic Boom and Post-Launch Abort

- Targeted individual has a head-start
- No Dud PRF-Code or Laser Safing Ability

Piecemeal Communications Architecture

SATCOM: Fighter/Bomber; Strike Bridge: RPA, SOF, GOCO

Relay / Level-Off



Kinetic Strike Solutions

Smart-Pixel Technology (Real-Time)

- Assign color-significant pixels to TI / friendlies / neutrals
- Currently done in post-production
- Beyond HD target sort / track / post-strike battle tracking

Dual-Sensor Upgrade

- RPA / GOCO / Strikers
- Allows single aircraft to perform near/far collateral scan + rifle + TGO + super-ripple to two distinct aimpoints
- Solves enemy discipline in convoy or FLOT targeting

The logo of the Air Force Graduate School, featuring a shield with a target symbol, the text 'GRADUATE' at the top, and 'U.S. AIR FORCE WEAPONS SCHOOL' around the bottom. A yellow and black checkered banner is positioned below the shield.

Kinetic Strike Solutions (2)

Directed-Energy Weapons (Scalable: Lethal/Non-Lethal)

- Anti-Personnel / Anti-Material (Melt Wiring)
- NO CDE, NO Sonic Boom, NO/Low TTR/TOF concerns

Other Solutions

Anti-Nadir Software for TGPs

SWIR Upgrade for TGPs

Link-Enabled Smart-Rail Technology

Common Launch Tube Fielded across MDS'

Arsenal Plane



Digital CAS Solution - MOJO/HHL-16

Targeting / SA / RELNAV (PNT) in Permissive & CDO Environments

AFSOC DaCAS Kit - MOJO / HHL-16



MOJO / HHL-16



Facilitates two networks simultaneously

- Overt and discreet inter-team network or data/voice

Chat/J-Voice/PPLI/SPIs/Enhanced Throughput

- Speeds target correlation w/30 sec video clips, digital overlays, imagery, GRGs
- Eliminates piecemeal comms architecture (J-Voice) and/or facilitates comm-out CAS / KS

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Questions?



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