

1-230TH CAVALRY REGIMENT

DESPERADOS



1-230th Organization and Attached Subordinate Units

1-230th Cavalry Regiment

- Headquarters and Headquarters Troop (HHT)
- A, B, C Troops – OH-58D Flight Troops
- D Troop – UH-60 Assault Troop
- E Troop – Aviation Unit Maintenance (AVUM)
- F Troop – Aviation Intermediate Maintenance (AVIM)
- G Troop – Forward Support



1-169th Aviation Regiment

- Det 1 C Company – HH-60 Medevac Flight Company
- Det 4 D Company – Aviation Unit Maintenance (AVUM)
- Det 4 E Company – Forward Support

1-151st Aviation Regiment

- C Company (-) – UH-72 Flight Company



1-230th CAV REG

10 UH-60, 263 Soldiers

HHT (-): 80 Soldiers

D Troop (UH-60): 43 Soldiers

DET 1 E Troop: 25 Soldiers

DET 1 F Troop: 25 Soldiers

G Troop (-): 90 Soldiers

NASHVILLE HEADQUARTERS AASF #1

1-230th CAV REG Subordinate Units:

6 HH-60, 4 UH-72, 125 Soldiers

1-169th Aviation Regiment

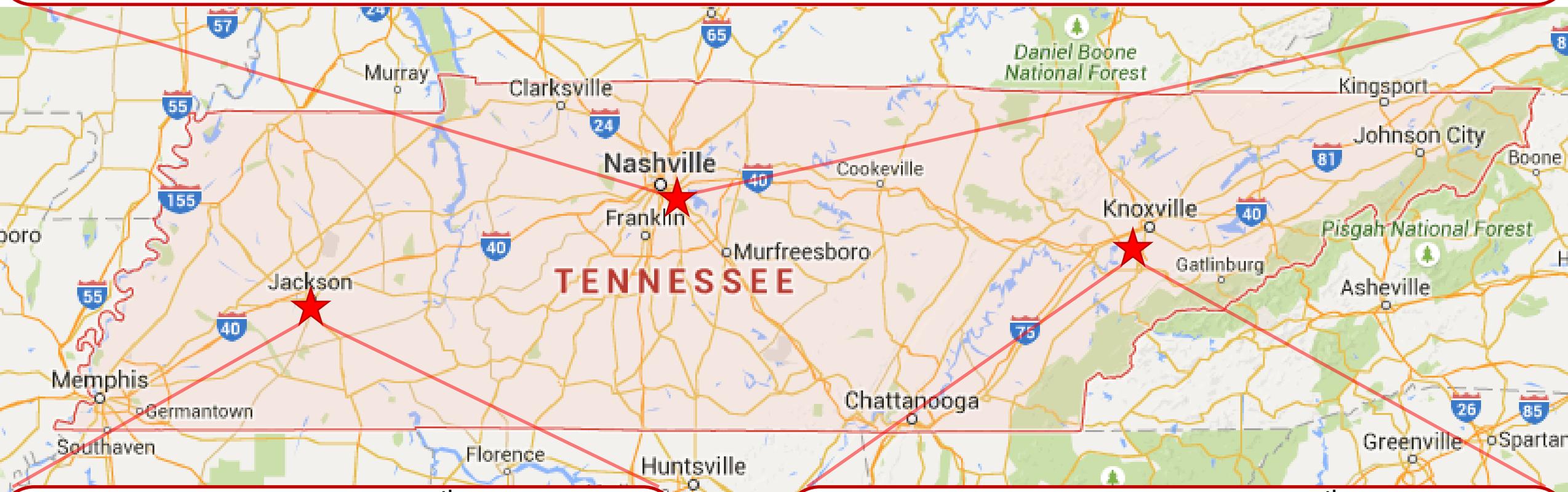
DET 1 C Company (HH-60): 45 Soldiers

DET 4 D Company: 10 Soldiers

DET 4 E Company: 10 Soldiers

1-151st Aviation Regiment

C Company (-) (UH-72): 60 Soldiers



JACKSON AASF #3

1-230th CAV REG

10 OH-58Ds, 148 Soldiers

A Troop (OH-58): 33 Soldiers

DET 2 E Troop: 15 Soldiers

F Troop (-): 80 Soldiers

DET 2 G Troop: 20 Soldiers

LOUISVILLE AASF #2

1-230th CAV REG

20 OH-58Ds, 216 Soldiers

DET 1 HHT: 30 Soldiers

B Troop (OH-58): 33 Soldiers

C Troop (OH-58): 33 Soldiers

E Troop (-): 70 Soldiers

DET 2 F Troop: 20 Soldiers

DET 1 G Troop: 30 Soldiers

OH-58 Kiowa History



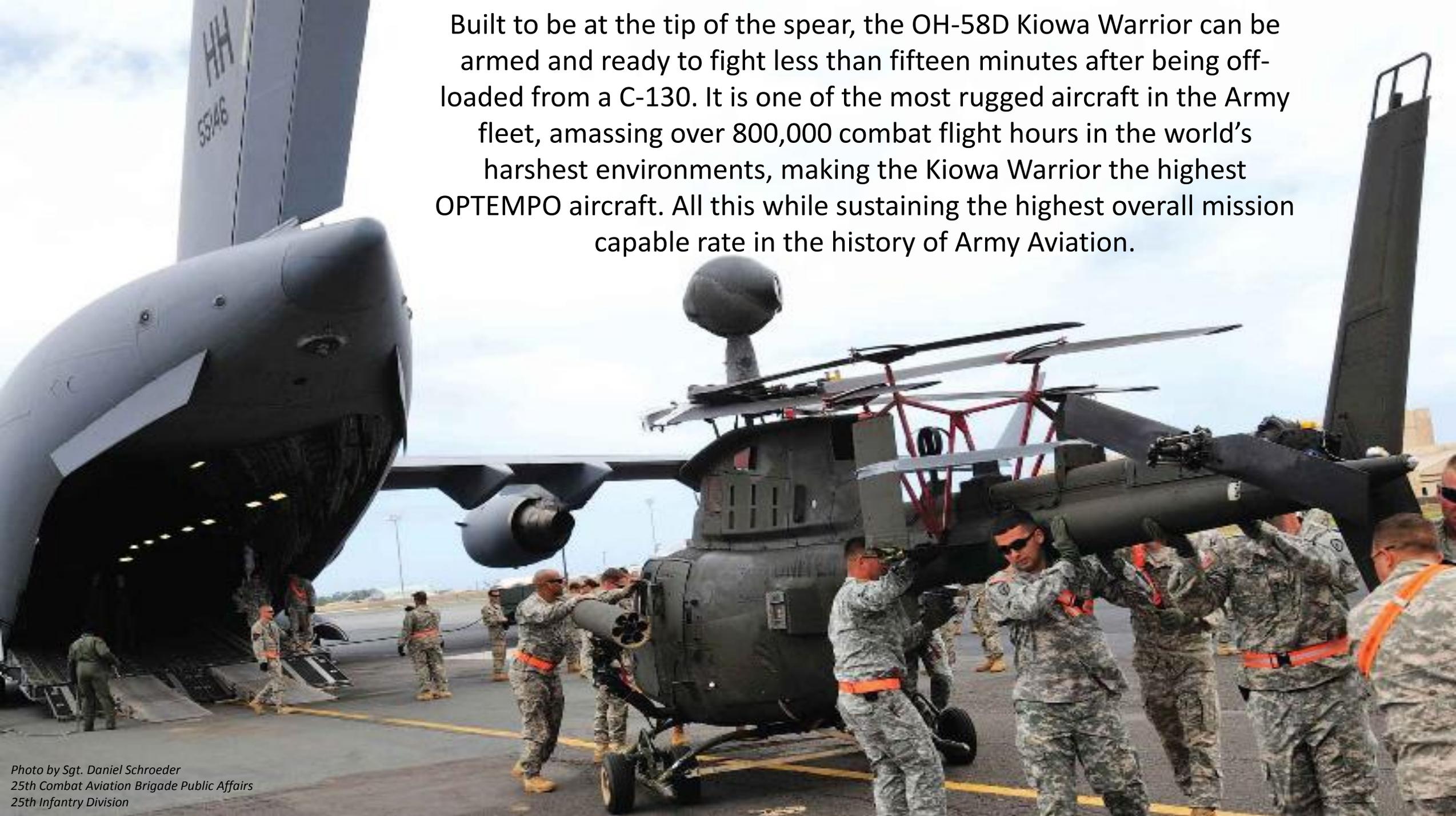
OH-58A Kiowa



OH-58D Kiowa Warrior

The Kiowa entered service as the Bell OH-58A in 1969, and was immediately utilized in Vietnam to call for and adjust artillery fire as a forward aerial observer. Over the years, the Army continually updated the Kiowa to its current and final configuration as the OH-58D Kiowa Warrior. Upgrading the rotor system to a fully-articulated, four blade system capable of sustaining impacts from up to a .50 caliber round, as well as increasing the power of the Rolls-Royce engine to 650 SHP dramatically increased the Kiowa Warrior's power and efficiency. A Mast Mounted Sight with a high-resolution day and a night infrared camera, as well as a laser range finder/designator, extended the target acquisition range of the OH-58D while providing increased survivability by limiting exposure of the helicopter to enemy detection. Later, the OH-58D was upgraded to be configured with two of three weapons systems at a time, choosing from the AGM-114 Hellfire missile, a .50 caliber machine gun, or 2.75 inch Hydra 70 Folding-Fin Aerial Rockets.

Built to be at the tip of the spear, the OH-58D Kiowa Warrior can be armed and ready to fight less than fifteen minutes after being off-loaded from a C-130. It is one of the most rugged aircraft in the Army fleet, amassing over 800,000 combat flight hours in the world's harshest environments, making the Kiowa Warrior the highest OPTEMPO aircraft. All this while sustaining the highest overall mission capable rate in the history of Army Aviation.





Ground troops loved the support the Kiowa provided because they felt it was nearly on the ground with them, brandishing its lethal weapons, almost daring the enemy to attack as opposed to fixed wing CAS platforms that operated at altitudes that left them mostly unseen and unheard on the ground. When the Kiowa Warrior was “up,” the enemy stayed down.

Undoubtedly the greatest accomplishment of the OH-58D is that it was the most highly requested aircraft by ground force commanders who often found themselves in fierce firefights with the enemy throughout Operations Iraqi and Enduring Freedom.



Adding to the long and storied history of the OH-58D, the men and women of the 1st Squadron, 230th Air Cavalry Regiment have flown tens of thousands of hours in support of our great nation, both domestically and abroad.

The legendary Kiowa Warrior, continued its renowned service in O, P, and Q Troops of 4th Squadron, 278th Armored Cavalry Regiment. In 2005, reorganization removed all aviation squadrons from Armored Cavalry Regiments across the Army, and 4/278th was reformed into 1-230th Cavalry regiment. A, B and C Troops carried on the tradition and employment of the Kiowa Warrior, remaining the only National Guard unit fortunate enough to fly them. Pilots and maintainers in these acclaimed Troops have invested immeasurable amounts of blood, sweat, and tears into this airframe's over 45 years of celebrated service. They are the privileged few who were given the honor and responsibility of retiring their beloved "KW" after nearly five decades of dedicated service to the nation.



الله أكبر

The 1-230th ACS, formerly 4/278th Air Cavalry Regiment, began flying the OH-58D in May, 2000 when it replaced the AH-1 Cobra and AH-64 Apache. The newly transitioned Troops quickly answered the nation's call to service with two deployments to Kosovo beginning in October 2003 through February 2005.

In March 2009, the entire 1-230th ACS deployed to Northern Iraq as TF DESPERADO where the men and women of the three Scout Line Troops flew 19,488 combat hours, finding dozens of weapons caches and eliminating numerous insurgents from the battlefield while conducting reconnaissance, security, and Syrian border over-watch missions. Their efforts resulted in the Squadron being recognized as the highest OPTEMPO unit in all of Army Aviation and the world.



Buoyed by their combat success in Iraq, the 1-230th again deployed, this time to Afghanistan in support of Operation Enduring Freedom in February 2014 with 15 OH-58Ds. This marked the very last OH-58D combat deployment ever. The men and women of the 1-230th ACS, attached to TF TIGERSHARK, flew over 9,000 combat hours, constituting 45% of the Task Force's flight hours although only representing 30% of the total aircraft assigned. While providing armed over-watch of Kandahar Airfield's Base Security Zone, pilots of "Omega" Troop were paramount in reducing the number of indirect fire attacks on the airfield by 87% from the previous year. In addition to that, "Omega" Troop was responsible for the successful elimination or capture of over a dozen High Value Targets within their AOR.



Despite these multiple overseas deployments in support of the Global War on Terror, the unit's primary role of providing support to the citizens of our great country never faltered. 1-230th Soldiers quickly responded to provide rescue assistance to victims of Hurricanes Katrina and Gustav in New Orleans and Baton Rouge, respectively. Several aircraft were also deployed to the U.S./Mexico border in support of Operation Jump Start in 2006 and 2007. Closer to home, aircrews have participated in multiple search and rescue operations in remote areas of Tennessee, as well as thousands of hours flown searching for illegal marijuana plants in support of the Governor's Task Force on Marijuana Eradication. Whether providing armed aerial escort to Soldiers on the ground in Mosul, Iraq or searching for a lost ten year old boy in the Smoky Mountains, for over 15 years, the men and women of the 1-230th ACS, who have flown and maintained the Kiowa Warrior, have truly lived up to the spirit of their Cavalry forefathers.

1-230th ACS
OH58D Kiowa Warrior



Air-Ground Integration &
Capabilities

Mission Sets

- **Conventional / SOF support**
- **Reconnaissance**
 - Route (MSRs, infil/exfil route)
 - Area (OBJs, Key terrain, LZ/PZ, Intersections)
 - Zone
 - Photo/Video Recon
- **Security**
 - Area (Cordon and Search, POO sites)
 - Convoy (In front, behind, and flanks)
 - Air Assault
- **Attack**
 - Hasty
 - Deliberate

Capabilities and Limitations

Cruise Speed – 90 Knots (103 mph)
Endurance – approx 2 hours, METT-T dependant

Weapons load

- Rockets
- .50 Cal Machine Gun
- Hellfire Missile

Mast Mounted Sight

- Day TV
- Gen 1 Thermal Image System
- Limited Digital Video Recording
- Laser Range Finder Designator

GPS/INS Navigation System
(8 DIGITS ONLY)

5 x Radios (2 FM/UHF/VHF/SATCOM)

BFT- Good for SA but bad for texting

Weapons



M296 .50 Cal Machine Gun



- Prone to jamming
- Normal engagements from 1500 to 500m
- Aimed with aid from ballistic reference mark
- Most accurate employed in diving profile
- Currently under replacement with M3P .50 cal formerly on the Avenger system

M3P .50 Cal Machine Gun



System Description/Capabilities:

- The M3P is a lighter weight and more reliable weapon than the XM296. M3P provided to all units in response to an ONS.
- Machine Guns were obtained from the Avenger Program.

GAU-19/B



System Description/Capabilities:

- The GAU-19B is a three barrel, electrically driven .50 Caliber Machine gun

Capable of firing the entire OH-58D basic load (500 rounds) in a single burst.

Max effective range 1,800m

Avg dispersion – 5m circle at 1,000m

2.75 inch (70mm) Folding Fin Aerial Rocket (FFAR)

- Area Target Weapon System
- 7 shot rocket pods
- Multiple warhead/ fuse combinations
- Fly out Ranges in excess of 7000m



Common Warheads:

M151 HE “10 pounder”

Burst Radius = 10m; lethal radius = 50m

M229 HE “17 pounder”

Burst Radius = 13m; lethal radius = 75m

M255A1 Flechette “Nails”

1179, 60 grain projectiles

M257 Illumination

Provides approx 120 sec of visible Illum

M278 IR Illumination

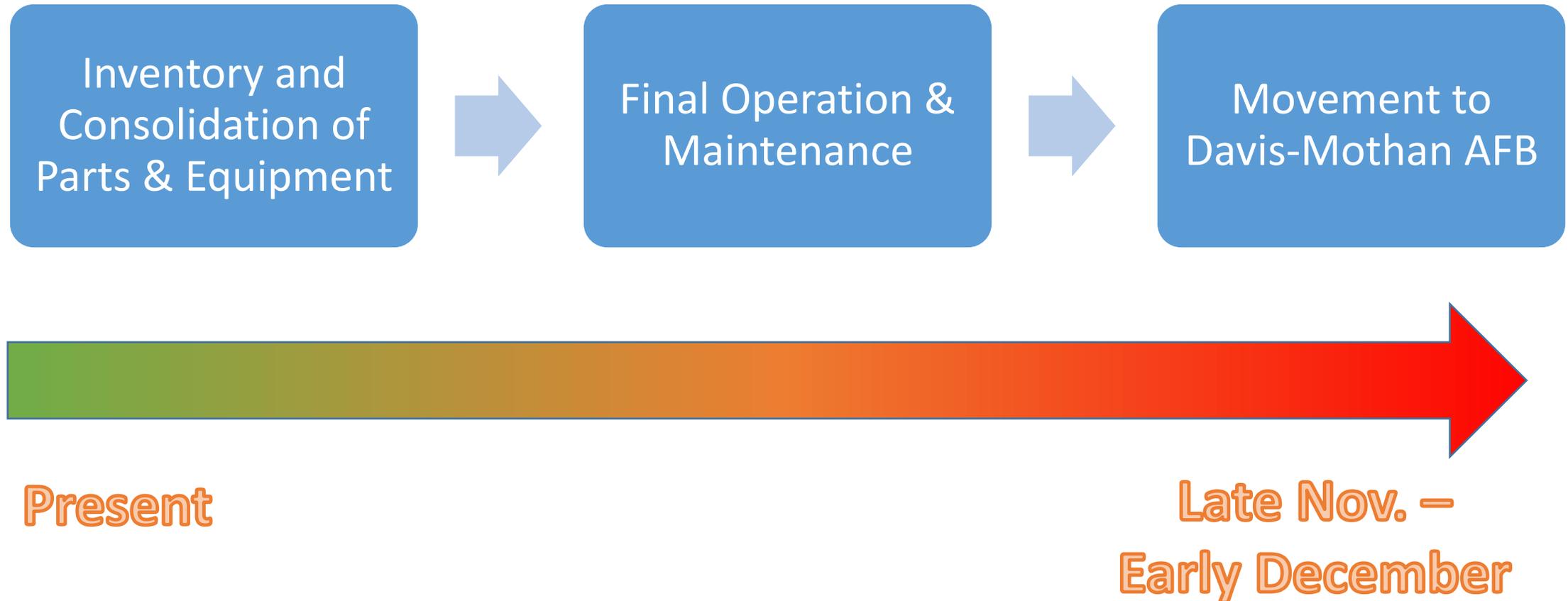
Provides approx 3 minutes of covert Illum

HELLFIRE



- Point Target Weapon System
 - LASER guided
 - Max Effective Range = 8km (remote)
 - Various Models for multiple applications
 - C , F and K model missiles = HEAT
 - K2A = dual heat warhead with fragmentation sleeve for antipersonnel effects. Outstanding on IED teams.
 - N = Thermobaric with internal fragmentation sleeve. Great against buildings and personnel.
 - M = Optimized for fragmentation.
- * N and M models have delay fusing.*

1-230th DIVESTMENT TIMELINE



1-230th PROJECTED FUTURE

Due to ARI....