

CLAIBORNE ELECTRONIC WARFARE RANGE

Upgraded Range Linked to Operational Energy Efficiencies



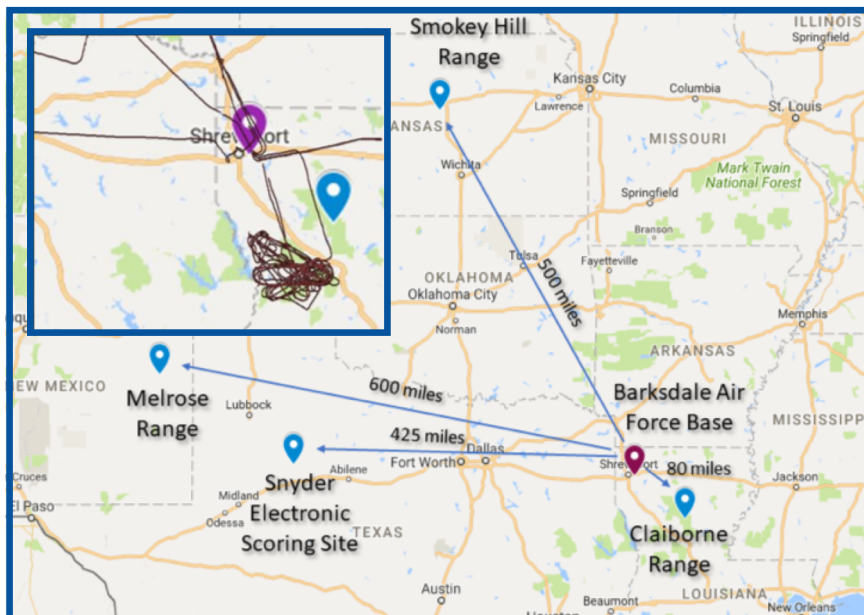
INCREASED RANGE CAPABILITIES ENHANCE TRAINING AND DECREASES FUEL CONSUMPTION

Operating out of Barksdale Air Force Base (AFB), the 307th Operations Support Squadron (307 OSS), provides intelligence, aircrew life support, and range operations services for the wing's full range of B-52 missions. As part of the squadron's training, aircrews need ranges that provide conventional bombing, exercise, and target range training as well as real-time Electronic Countermeasure Training.

Prior to FY17, the 307 OSS flew sorties upwards of **600 miles** away to reach ranges that met training requirements in electronic warfare (see map below).

Despite being located 80 miles from Barksdale AFB, Claiborne Range was underutilized due to its inability to provide critical electronic warfare training capabilities. The 307 OSS implemented necessary upgrades to Claiborne, including threat emitters and communications equipment. These improvements ensured that B-52s received realistic training while accessing state-of-the-art equipment and facilities.

By using the local range, B-52s at Barksdale save valuable training time by significantly decreasing transit time and fuel use. Radar observations confirm the B-52s consistently use the new capability.



Operational Energy Impacts

Based on projections from the 307 OSS, nearly 600 B-52 sorties used Claiborne Range since the upgrades.

The changes in operations have saved approximately:

 **2 Million**
GALLONS OF
FUEL PER YEAR

translates to

\$ 5 Million
IN COST AVOIDANCE

WHY IT MATTERS

The reduction in transit time has meant that the time is more efficiently spent on direct training activities. Identifying operational efficiencies improves fuel use, reduces maintenance requirements, boosts pilot retention, and supports overall Air Force readiness.

Deputy Assistant Secretary of
AIR FORCE OPERATIONAL ENERGY



OUR MISSION

To enhance combat capability and mitigate operational risk to the warfighter through energy-informed solutions.

OUR VISION

To create an energy optimized Air Force that maximizes combat capability for the warfighter.

OPTIMIZING OPERATIONAL ENERGY LEADS TO:



INCREASED
Combat Capability



INCREASED
Aircraft Lifespan



LOWER
Aircraft Maintenance Costs



MORE
Training Opportunities

\$5-7 BILLION

is spent on Air Force aviation fuel **ANNUALLY**

81% of the Air Force **ENERGY BUDGET** is spent on aviation fuel

2 BILLION

GALLONS of aviation fuel used by the Air Force **ANNUALLY**

8,000

additional sorties fueled from a **1% EFFICIENCY INCREASE**

#FUELMOREFIGHT



Office of the Deputy Assistant Secretary of the Air Force for Operational Energy (SAF/IEN)

Email: SAF.OpEnergy@us.af.mil | Phone: (571) 256-4711

www.safie.hq.af.mil/OpEnergy | www.facebook.com/AirForceEnergy | www.twitter.com/AFEnergy