

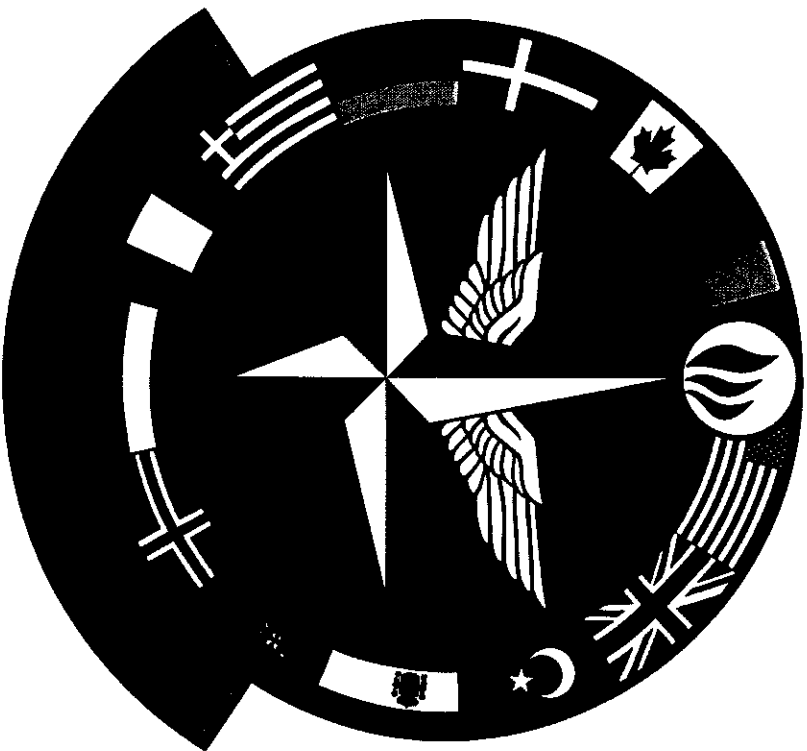


UNCLASSIFIED

80th Flying Training Wing



Strengthen Partnerships; Train NATO Fighter Pilots



Sheppard AFB Windfarm Impacts

28 March 2016

Integrity - Service - Excellence

UNCLASSIFIED

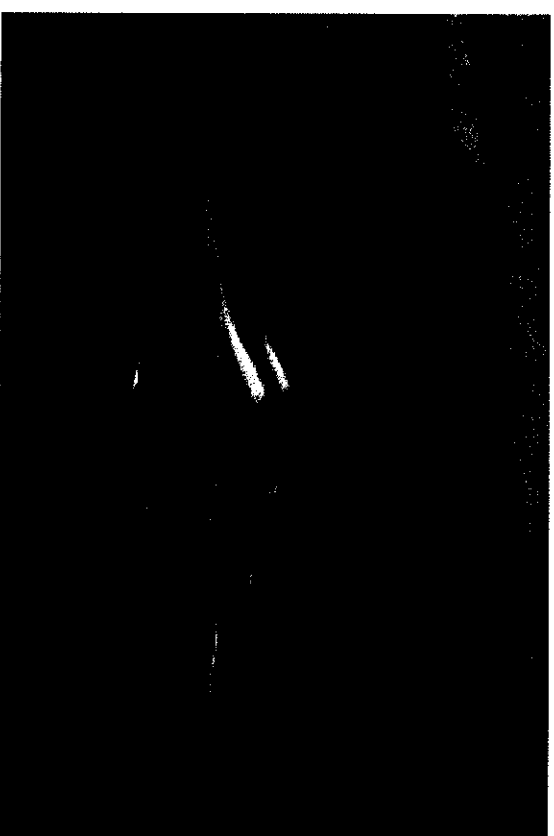
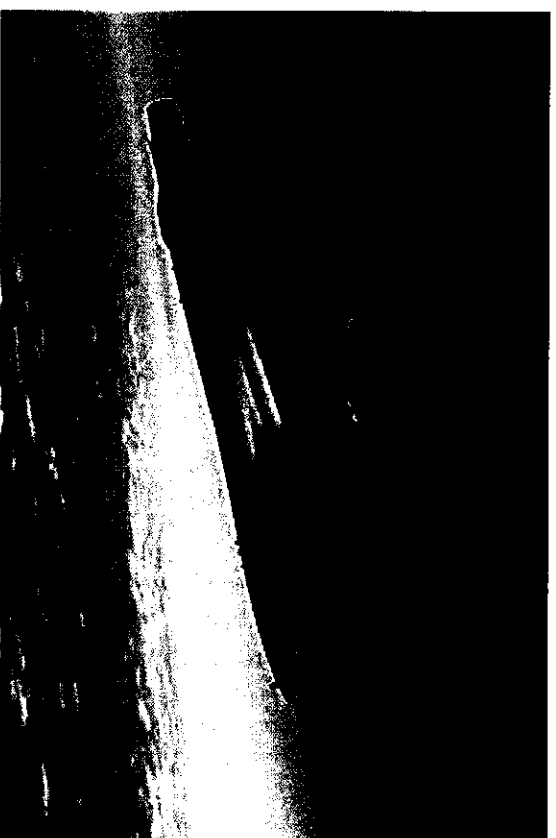
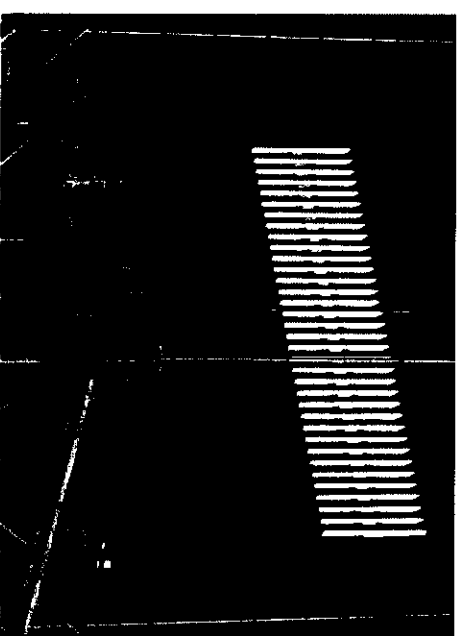


Overview



Strengthen Partnerships; Train NATO Fighter Pilots

- Radar Line of Sight
- Control Scope Interference
- RADAR impacts
- Vectoring Altitude Changes
- Sheppard AFB Impacts

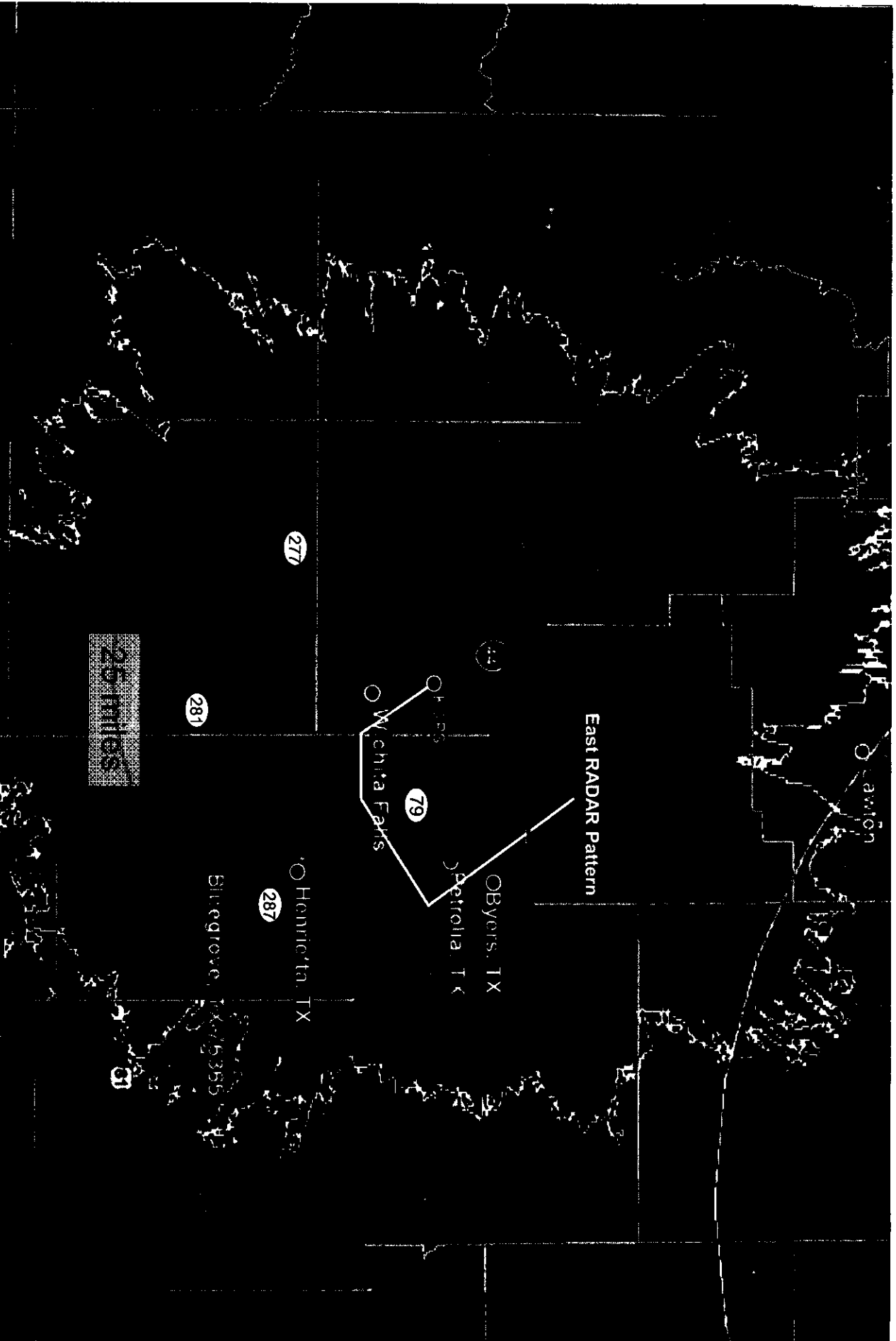




RADAR Line of Sight



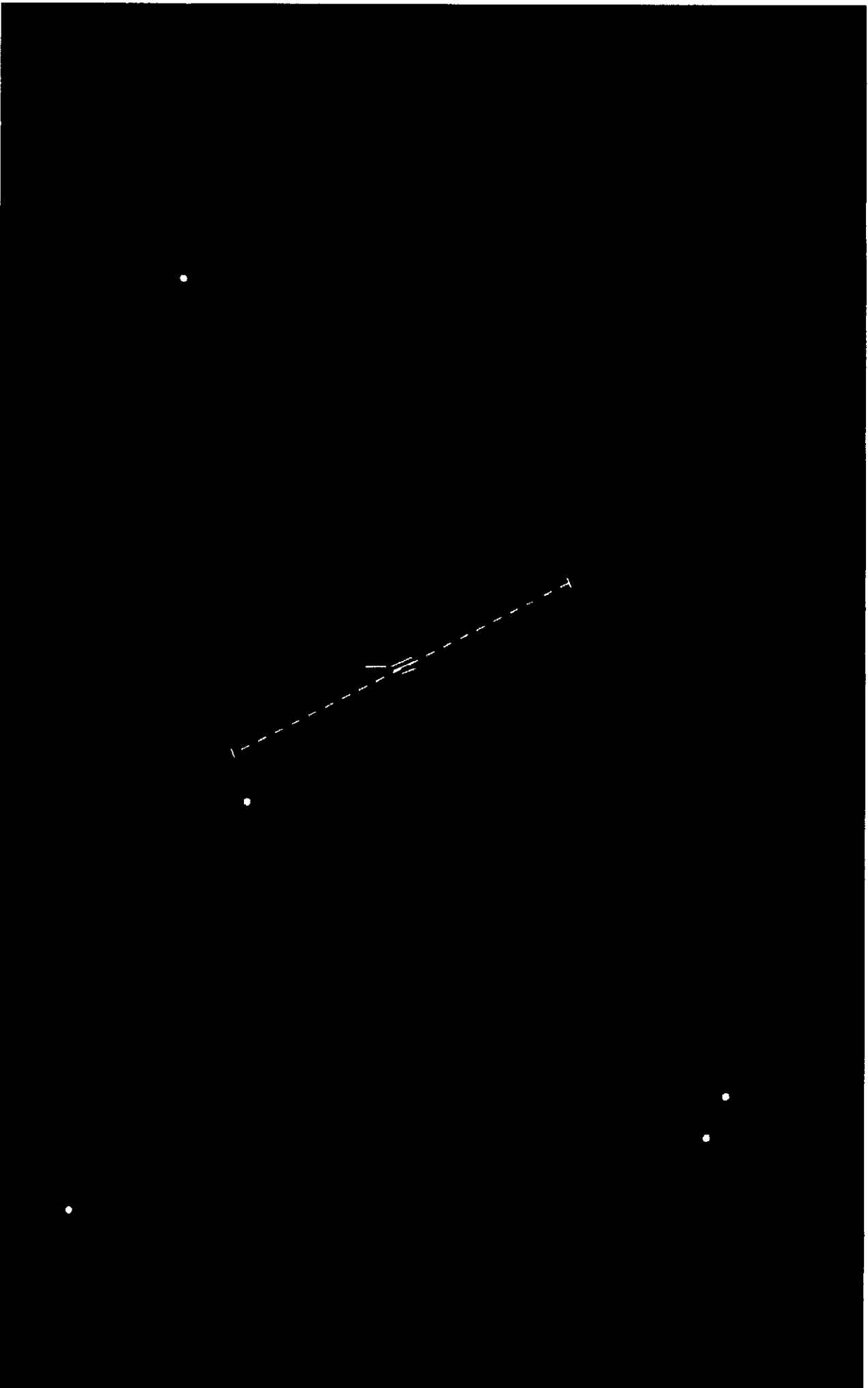
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Control Scope

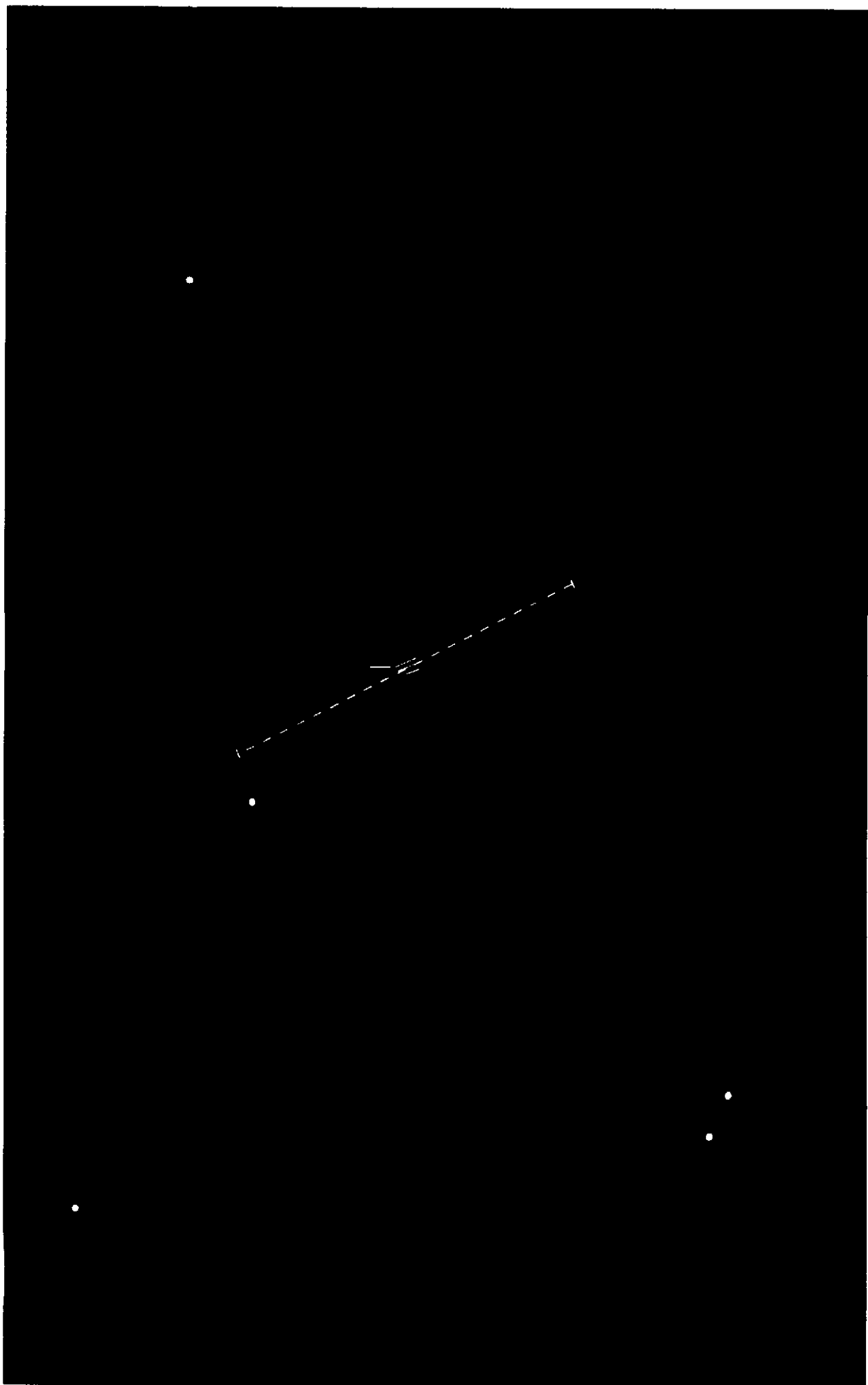
Strengthen Partnerships; Train NATO Fighter Pilots





Control Scope Interference

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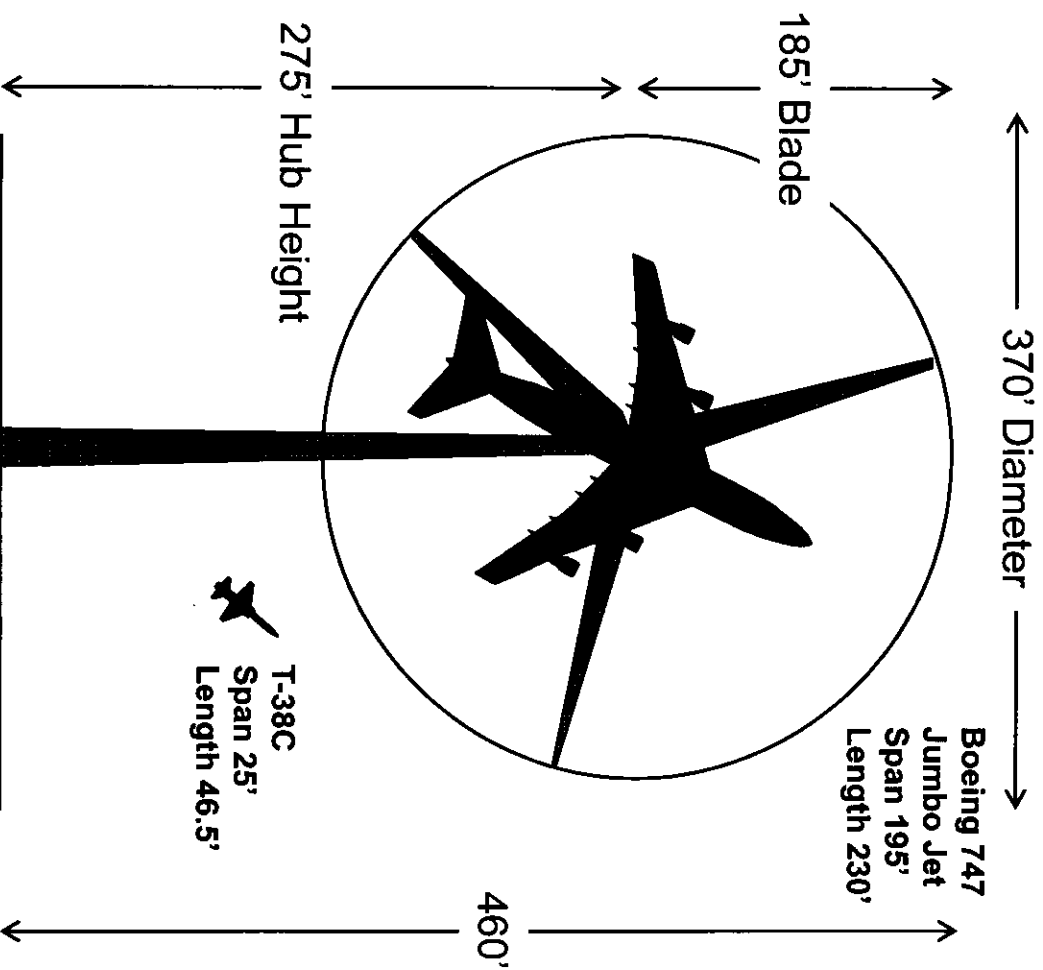




RADAR Impacts



Strengthen Partnerships; Train NATO Fighter Pilots



3.0 MW Wind Turbine

105,850 sq ft blade sweep = 2 football fields

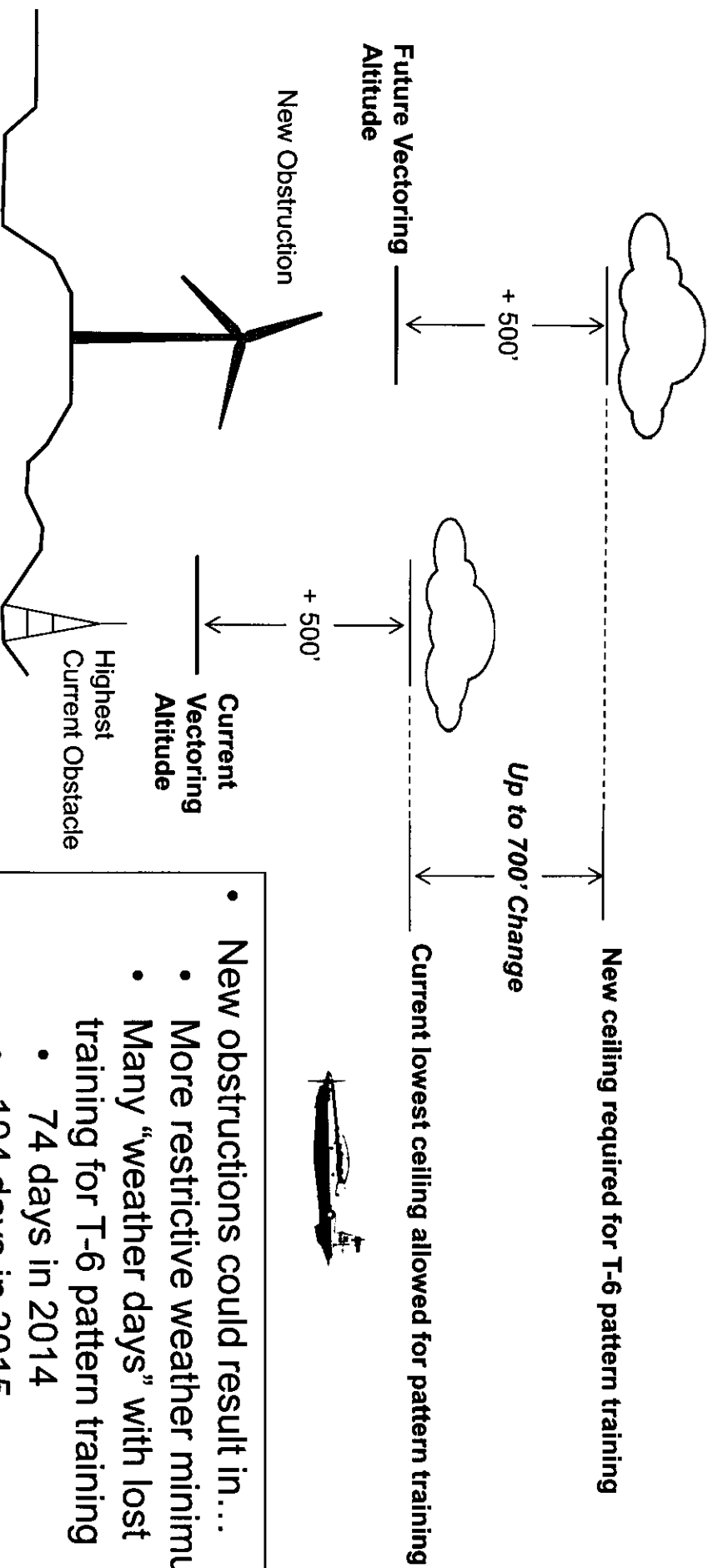


Vectoring Altitude Changes



Strengthen Partnerships; Train NATO Fighter Pilots

- Wind Turbines near Sheppard AFB could raise vectoring altitudes and weather requirements as much as 700' higher



- New obstructions could result in...
 - More restrictive weather minimums
 - Many “weather days” with lost training for T-6 pattern training
 - 74 days in 2014
 - 104 days in 2015
 - Inability to separate civilian aircraft



Sheppard AFB Impacts



Strengthen Partnerships; Train NATO Fighter Pilots

- Wind Turbines within 25 miles
 - *Significant impact*
 - Affects radar, vectoring altitudes, & instrument approaches
- Wind Turbines within 12 miles
 - *Critical impact*
 - Clutters and obscures controllers' radar picture
 - Puts civilian and military aircraft separation at risk
 - Degrades pilot training capability

RECENT ACCOMPLISHMENTS

- Operations Group Facility Complex: Sheppard's first LEED (Leadership in Energy and Environmental Design) Silver certified facility, expect 50% savings on energy costs.
- Aircraft Shelters: Built to protect aircraft from the temperatures and weather in North Texas; comp
- Working with the Texas Public Utilities Commission: AFB was able to relocate power transmission lines away from northern end of the base and the runways, creating additional clearways and eliminating a potential safety hazard for pilots.
- An AICUZ (Air Installation Compatible Use Zone) Study was conducted in September 2011 to measure noise contours, review runway clear zones and accident potential zones, and make recommendations for generalized land use compatibility. The local community completed a Joint Land Use Study in 2014 and we are working closely with them to implement solutions that enhance compatible use both at Sheppard AFB and at the auxiliary field at Frederick, Okla.

BENEFITS OF ENJJPJT

SHARED COST OF BENEFITS

- FY03-FY16 partner nations paid 35% of ENJJPJT's total cost in facilities/modernization, equipment and aircraft modifications.

PARTNERING

- The program is a critical aspect of training pilots who can operate in coalition efforts worldwide.
- The program is key to building partnerships, of which AETC is the lead integrator across the Air Force.
- Graduates from ENJJPJT have supported every major military operation since the Program's inception. These include Operations DESERT SHIELD, DESERT STORM, ALLIED FORCE, ENDURING FREEDOM, IRAQI FREEDOM, NEW DAWN and ODYSSEY DAWN, INHERENT RESOLVE.

SHEPPARD SNAPSHOT

\$734 MILLION ECONOMIC IMPACT ON THE LOCAL ECONOMY

Sheppard AFB was founded in 1941 largely because of the active engagement of the people of North Texas. Celebrating 75 years later, 'Team Sheppard' is a vibrant, working partnership between Sheppard's two wings—the 80th FTW and the 82nd TRW—and the local community.

The 82nd Training Wing produces more technical training graduates (65,000) than any other training wing in the USAF.

The 80th Flying Training Wing is a tenant unit at Sheppard AFB and has produced over 7,100 NATO pilots since 1981.

COMMUNITY INVOLVEMENT

In 2012, Wichita Falls and the North Texas communities near the base were awarded the Allus Trophy. This AETC Award is given to the communities that provide the best support to an AETC base.



The ENJJPJT Program would not be what it is today without the ENJJPJT Sponsor Program, whereby citizens from the local community play a key role in welcoming and supporting new and returning members of the ENJJPJT family.

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FOR MORE INFORMATION

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www.experienceenjppjt.com
www.flickr.com
www.facebook.com/80thFlyingTrainingWing
www.facebook.com/Euro-NATOJointJetPilotTraining (ENJJPJT)

80TH FLYING TRAINING WING

MISSION: STRENGTHEN
PARTNERSHIPS; TRAIN
NATO FIGHTER PILOTS



Sheppard & Wind Farms

The Air Force is a strong proponent of Green Energy, and a pioneer in developing environmentally sustainable energy solutions such as synthetic aviation fuels and aviation-compatible wind and solar energy.

Depending on their proximity to military facilities, however, wind farms can present specific challenges to military and civilian flight operations.

Wind Turbines within 12 miles

Potential Impact to Operations: Critical

- Clutters and obscures controllers' radar picture
- Puts ability to use radar to separate civilian and military aircraft at risk
- Degrades pilot training capability

Wind Turbines within 25 miles

Potential Impact to Operations: Significant

- Affects radar picture
- Restricts vectoring altitudes in poor weather, which reduces flight days
- Impacts instrument-only approaches

Questions?

If you would like more information about the potential impact of wind farms on flight operations at Sheppard AFB, please contact the Sheppard Public Affairs Office at:

(940) 676-0069 or (940) 676-2732
82trw.pa@us.af.mil



About Sheppard AFB

Sheppard Air Force Base has been part of the North Texas community for 75 years. It is one of the largest and most diverse training bases in the United States Air Force.

The officer and enlisted students trained at Sheppard are critical to the combat capability of the United States and its international partners



The 82nd Training Wing delivers 60,000 technical training graduates annually in more than 900 aircraft maintenance, civil engineering and logistics courses.



The 80th Flying Training Wing operates the Euro-NATO Joint Jet Pilot Training Program and has produced more than 7,000 combat pilots for the NATO Alliance.

Facts & Figures

\$734 Million

Annual Economic Impact to North Texas

9,000 Employees

as the region's largest employer

55,000

Military and Civilian Flights Managed Annually
by Sheppard Air Traffic Controllers

201

Aircraft Assigned

\$21.6 Billion

in Physical Assets