



80th Flying Training Wing



Strengthen Partnerships; Train NATO Fighter Pilots



Sheppard AFB Windfarm Impacts

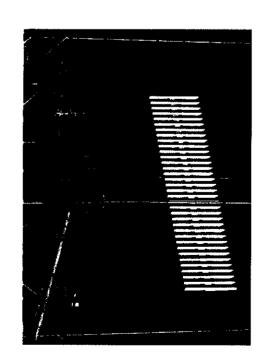
28 March 2016



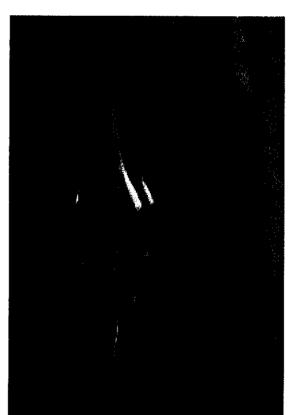
Overview



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



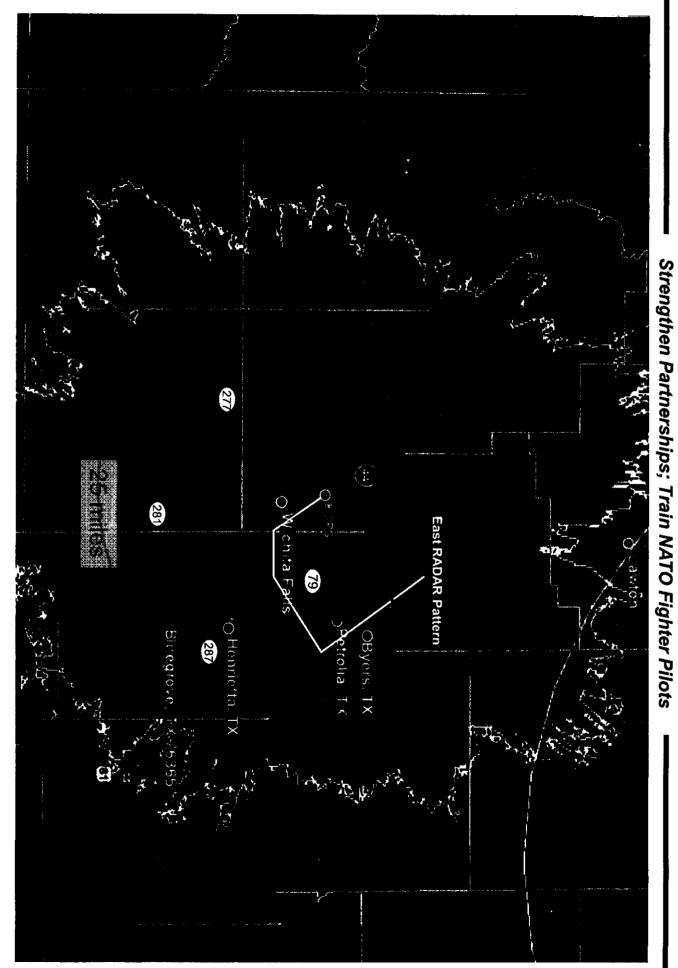




















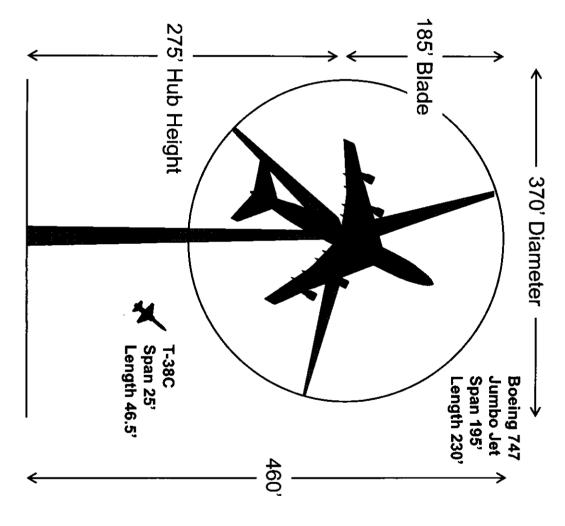


Control Scope Interference





RADAR Impacts









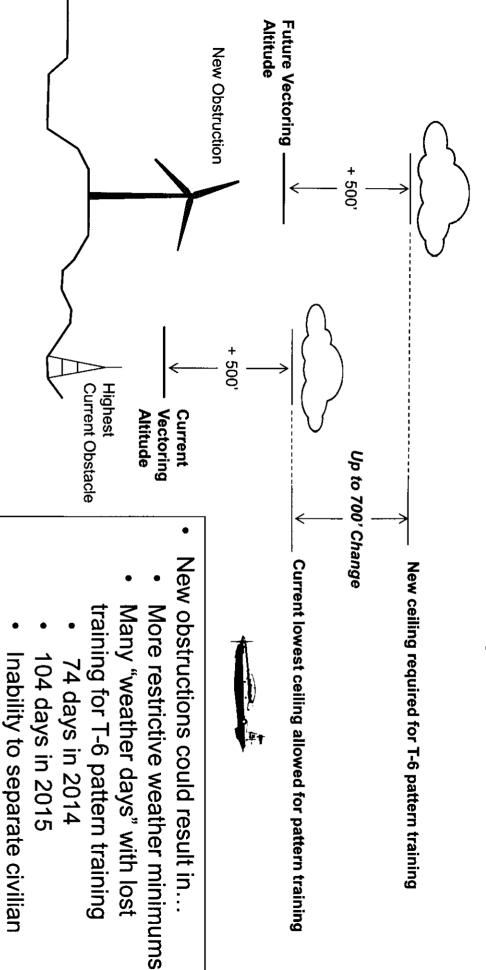


Vectoring Altitude Changes



Strengthen Partnerships; Train NATO Fighter Pilots

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



aircraft



Sheppard AFB Impacts



- 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
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 loca 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 Fraderick, Okla.

BENEFITS OF ENJJPT

SHARED COST OF BENEFITS

 +FY03-FY16 partner nations paid 35% of ENJJPT'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 ENJJPT 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, (NHERENT 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 bcal 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 Altus Trophy. This AETC Award is given to the communities that provide the best support to an AETC base.



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

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FOR MORE INFORMATION

www.sheppard.af.mil/units/80thflyingtrainingwing

www.experienceenjjpt.com

www.flickr.com

www.facebook.com/80thFlyingTrainingWing

www.facebook.com/Euro-NATOJointJetPilotTraining (ENJJPT)

80TH FLYING TRAINING WING

MISSION: STRENGTHEN PARTNERSHIPS; TRAIN NATO FIGHTER PILOTS



FROM THE COMMANDER

Welcome to the 80th Flying



Pilot Training (ENJJPT) Program extend far beyond basic aviation produces among the finest pilots in only internationally manned and the benefits of this training model the world for our partner nations, managed pilot training program. Training Wing, home to the world's While the Euro-NATO Joint Jet

location ideally suited to the task in terms of both weather and training, with outstanding support from the community and a shared operations knowledge critical to the multinational, coalition cultural differences, producing friendship, trust and the type of From day one, our students and instructors bridge geographic and

On behalf of all the men and women in the 80th, thank you for arrange a visit, or to answer any questions you may have. enjoy the opportunity to share our story. Please contact us to your interest in ENJJPT. We're proud of our unique mission and

Commander, 80th Flying Training Wing Colonel Gregory S. Keeton

ABOUT THE 80TH FTW

Euro-NATO Joint Jet Pilot Training Program. 1978 that a Memorandum of Understanding, signed by January 1973 at Sheppard Air Force Base. However, it wasn't until Secretaries of Defense of the participating nations, establish The U.S. Air Force activated the 80th Flying Training Wing in

for the NATO Alliance. Celebrating 30 years in 2011, the ENJJPT In October 1981, the ENJJPT Program began training student pilots O allies. What once began as a temporary red more than 7,100 trained pilots for the United to be the 2nd busiest airfield in the Air zone (as of FY16).

ENJJPT Today

send instructors and students: Canada, Germany, Italy, The Of the thirteen NATO nations which founded ENJJPT, nine currently Portugal and the United Kingdom are currently non-active States. Two nations, Greece and Spain, send only instructors, while Netherlands, Norway, Belgium, Turkey, Denmark, and the United

61,000 flight hours annually, making Sheppard Air Force Base the second busiest joint-use airfield outside of a combat zone. approximately 240 sorties per day. This equates to over include 77 T-6 Texans and 131 T-38 Talons which fly The 80th Flying Training Wing has 201 assigned aircraft to

aircraft and go on to learn critical combat skills through the Nearly 75 pilots complete Sheppard Air Force Base's PIT each year States in that it conducts its own Pilot Instructor Training, or PIT ENJJPT is also unique among pilot training bases in the United ENJJPT. On average, 150 of those pilots are selected for fighter Each year, more than 200 pilots receive their wings through Introduction to Fighter Fundamentals course here at Sheppard

program chartered to produce combat pilots Program is the world's only internationally The Euro-NATO Joint Jet Pilot Training manned and managed flying training for the NATO alliance.

QUICK FACTS

- Over 7,100 Undergraduate Pilot Training graduates
- Over 2,600 Introduction to Fighter Fundamentals graduates structor Pilots trained

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With consent of

ENJJPT TOMORROW

With the expiration of the original ENJJPT Memorandum of has voted and signed a 10-year extension for the Program Understanding scheduled for 2016, the Steering Committee

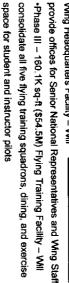


TRAINING FACILITIES

phases for the new ENJJPT Flying Training Complex Program. The construction of this facility was the first of three improved the quality and efficiency of pilot training for the ENJJPT its ribbon cutting in September 2012, the facility has greatly providing funds for the new 80th Operations Group Facility. Since As we look ahead to the future, we are grateful to Congress for

Completed Operations Group Facility -•Phase I = 42.7K sq-ft (\$14.2M)





MAINTENANCE FACILITIES

aircraft assigned; 22,8 Currently have less hangg hangar doors and upgraded floors Hangar floor/door replacement cor ad based on number of replaced aging

plex) ~ \$63.4M impacts

puilding blocks (F-22, F-35)



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, nowever, wind farms can present specific challenges o 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