

What is AICUZ?

Air Installation Compatible Use Zone (AICUZ) is a program concerning people, their comfort, safety, and protection. This brochure summarizes the AICUZ Study for Tinker Air Force Base (AFB), Oklahoma. The AICUZ program is an extensive analysis of the affects of aircraft noise, aircraft accident potential, and land use development upon present and future neighbors of Tinker AFB. The AICUZ program seeks a cooperative understanding and a reasonable solution to this complex situation.

Is there a problem?

Military airfields, as employment centers, attract development in the immediate area. In the absence of compatible land use controls, inappropriate uses of land that is nearby or adjacent to the installation may occur, causing eventual conflicts between flight operations and landowners. Because land close to Tinker AFB is subject to high noise levels and potential aircraft accidents, certain types of development are not compatible. There are 1,452 acres of incompatible residential, commercial, and public/quasi-public land development within the Clear Zones (CZ), Accident Potential Zones (APZ), and noise exposure zones at Tinker AFB.

What has been done?

Tinker AFB has placed restrictions on flying activities that could adversely affect its neighbors in an effort to reduce noise impacts while maintaining safe operations. Tinker AFB demonstrates a spirit of cooperation by consulting with local communities in the area-wide planning process relating to land use near the base. Oklahoma and Cleveland counties and the cities of Oklahoma City, Del City, Midwest City, Choctaw, Nicoma Park, and Spencer have played a major role by supporting the Tinker AFB AICUZ Program in its ongoing planning and zoning decisions. Continued cooperation between Tinker AFB, the local authorities, and communities around the base will further reduce potential land use conflicts. This action will also help to ensure that future land uses are compatible and beneficial.

What are the benefits?

In addition to protecting the public safety and health, other benefits provided by Tinker AFB include protecting the taxpayer's investment in national defense and compatible economic benefits to the surrounding communities generated by Tinker AFB. The local economy is enhanced by Tinker AFB's expenditures for salaries, contracts, construction, retirement pay, tuition aid to schools, health insurance payments, and off-installation accommodations for travelers. In terms of total economic impact in the region, Tinker AFB employs over 25,000 people and generates an estimated \$842 million associated with indirect jobs in the region. The economic impact is felt not only in the area of employment, but also in the total annual payroll of nearly \$1.141 billion that is spent in the local community. Tinker AFB is a strong partner in the economic future of the region.

Why AICUZ now?

It is important that local governments have an understanding of the current noise and accident potential data related to aircraft operations at Tinker AFB. Information provided in this AICUZ Brochure is intended to offer assistance to those planning the future of the cities of Oklahoma City, Del City, Midwest City, Choctaw, Nicoma Park, and Spencer and Oklahoma and Cleveland counties. By using the updated AICUZ map and information provided in the AICUZ Study, neighboring communities are better equipped to make land use decisions and adopt land use controls compatible with Tinker AFB, while accommodating growth and economic development.

The 2006 AICUZ Study provides an update to the previous 1998 AICUZ Study, and documents changes to the AICUZ for the period 1998-2006 based on current operations at Tinker AFB. This AICUZ Study documents changes in flight operations since the last study and provides noise contours and compatible use guidelines for land areas surrounding Tinker AFB.

What does the AICUZ Program mean to me?

The AICUZ Program means protection of the public safety and health as well as protection of the Air Force's national defense mission. The AICUZ Program itself is a composite of many factors: average noise levels; accident potential; and aircraft flight paths and altitudes. Noise and accident potential zones reflecting current conditions have been combined and are displayed on the contour map on the next page. The numbers 65 decibels (dB) through 80 dB indicate the average sound levels in decibels using the Day-Night Average A-Weighted Sound Level (DNL) metric for describing the noise environment. DNL is the energy-averaged sound level measured over 24 hours with a 10 dB penalty applied to nighttime (10:00 p.m. to 7:00 a.m. as defined by the noise metric) sound events to account for increased annoyance from late night noise.

The CZs and APZs are based on statistical analysis of Air Force aircraft accidents throughout the United States. The CZ, the area closest to the runway end, is the most hazardous. The Air Force generally acquires the land in the CZ through purchase or easement to prevent development.

APZ I is an area beyond the CZ that possesses a significant potential for accidents. APZ II is an area beyond APZ I having a lower, but still significant, potential for accidents. Statistically, 68 percent of Air Force accidents occur along the runway or within the CZ, APZ I, and APZ II. While aircraft accident potential in APZs I and II does not warrant acquisition by the Air Force, land use planning and controls are strongly encouraged in these areas for the protection of the public. An additional constraint involves areas that the Federal Aviation Administration and Department of Defense have identified for height limitations. Air Force obstruction criteria are based on those contained in Federal Aviation Regulation (FAR) Part 77, Subpart C, and Unified Facilities Criteria (UFC) 3-260-01, *Airfield and Heliport Planning and Design*.

The accompanying AICUZ map and Land Use Compatibility table provide a quick reference to the various noise and land use compatibility of the APZs associated with flying operations projected for Tinker AFB. More detailed information can be found in the 2006 Tinker AFB AICUZ Study.

How can I help?

Historically, citizens of the cities of Oklahoma City, Del City, Midwest City, Choctaw, Nicoma Park, and Spencer and Oklahoma and Cleveland counties and personnel from Tinker AFB have cooperated to better serve the needs and desires of all concerned. The Air Force has developed strategies intended to maximize the benefits of Tinker AFB while minimizing annoyances. If the future of Tinker AFB is to be as bright as its past, you, the citizens of this area, need to participate in the process of achieving a suitable resolution of our mutual concerns. We request your careful review of the recommendations contained in the Tinker AFB AICUZ Study.

Who prepared the AICUZ Study?

The AICUZ Study was developed by concerned people at Tinker AFB under supervision of Headquarters United States Air Force and Headquarters Air Force Material Command.

This Citizen's Brochure is a summary of the AICUZ Study, with only the major points of the report included. The complete report is available from the Public Affairs Office at Tinker AFB (405-739-2026).

Summary

The AICUZ Study includes the following community recommendations:

- Continue to incorporate AICUZ policies and guidelines into the comprehensive plans of Oklahoma County and the cities of Oklahoma City, Midwest City, and Del City. Use overlay maps of the AICUZ noise contours and Air Force Land Use Compatibility Guidelines to evaluate existing and future land use proposals.
- Modify existing zoning ordinances and subdivision regulations to support the compatible land uses outlined in this study.
- Modify building codes to ensure new construction within the AICUZ area has the recommended noise level reductions incorporated into its design and construction.
- Implement height and obstruction ordinances which reflect current Air Force and FAR Part 77 requirements.
- Keep the Department of Defense Office of Economic Adjustment apprised of any development near Tinker AFB that may impact the program for Joint Land Use Studies.
- Continue to inform Tinker AFB of planning and zoning actions that have the potential of affecting Base operations.
- Support the Joint Land Use Study Program for the Tinker AFB area.

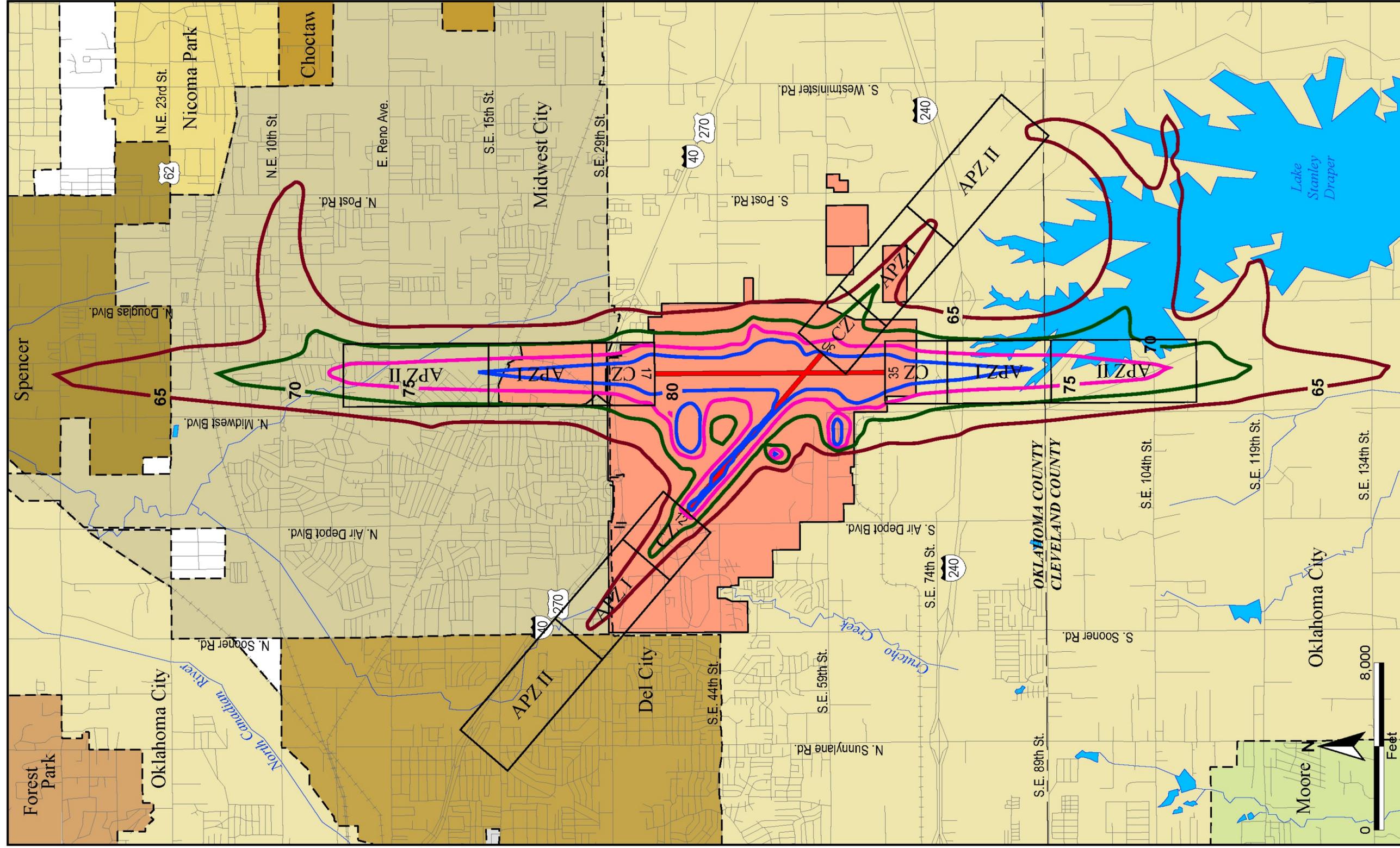
AIR INSTALLATION
COMPATIBLE USE ZONE
STUDY

CITIZEN'S BROCHURE

Tinker Air Force Base,
Oklahoma

December 2006





Tinker Air Force Base 2006 AICUZ

- LEGEND**
- DNL 65 dB Contour
 - DNL 70 dB Contour
 - DNL 75 dB Contour
 - DNL 80 dB Contour
 - Runway
 - Roadway
 - - - - City Limits
 - Tinker AFB
 - CZ Clear Zone
 - APZ I Accident Potential Zone I
 - APZ II Accident Potential Zone II

Land Use Compatibility

Generalized Land Use	Clear Zones and Accident Potential Zones		DNL Noise Contours				
	Clear Zones	APZ I	APZ II	65-69 dB	70-74 dB	75-79dB	80+ dB
Residential	No	No	Yes ¹	No ⁴	No ⁴	No	No
Manufacturing	No	Yes ²	Yes ²	Yes	Yes	Yes	Yes
Transportation, and Utilities	No	Yes ²	Yes ²	Yes	Yes	Yes	No
Trade, Business, and Offices	No	Yes ²	Yes ²	Yes	Yes	Yes	No
Shopping Districts	No	No	Yes ²	Yes	Yes	Yes	No
Public and Quasi-Public Service	No	No	Yes ²	Yes	No ⁴	No ⁴	No
Recreation	No	Yes ²	Yes ²	Yes	Yes	No	No
Public Assembly	No	No	No	Yes	No	No	No
Agriculture and Mining	No ³	Yes ²	Yes ²	Yes	Yes	Yes	Yes

¹ Suggested maximum density of 1-2 dwelling units per acre possibly increased under a Planned Unit Development where maximum lot coverage is less than 20 percent.

² Only limited low-density, low-intensity, uses recommended.

³ Except limited agricultural uses are permitted.

⁴ Unless sound attenuation materials are installed.

This chart is for general information. See Table 4.3 in the AICUZ Study for more detailed information.