



Air Installations Compatible Use Zones Study

Joint Base Langley-Eustis

90% DRAFT March 2020



U.S. AIR FORCE



Air Installations Compatible Use Zones Program

The Department of Defense's (DoD's) Air Installations Compatible Use Zones (AICUZ) Program balances the needs of aircraft operations with community concerns by focusing on Air Force's policy of promoting public health, safety, and general welfare in areas surrounding air installations while seeking development that is compatible with the defense flying mission¹. This brochure summarizes the Joint Base Langley-Eustis

(JBLE), Virginia 2020 AICUZ Study. The 2020 AICUZ Study provides an update to the 2007 Langley Air Force Base (AFB) AICUZ Study and the 2007 U.S. Army Transportation Center Fort Eustis and Fort Story Installation Operational Noise Management Plan (IONMP). The update documents changes in flight operations and noise contours and provides compatible land use guidelines for land areas surrounding JBLE.

Land close to JBLE is exposed to increased noise levels. Without compatible land use controls, development in these areas surrounding the airfields and small arms ranges could result in incompatible uses that create conflicts between military flight operations and landowners.



Joint Base Langley-Eustis

In 2010, Langley AFB and Fort Eustis were consolidated under the responsibility of the Air Force and the 633d Air Base Wing, becoming JBLE in accordance with the 2005 Base Realignment and Closure Commission recommendation. The host unit of JBLE is the 633d Air Base Wing, an Air Force-led mission support wing that serves both Air Force and Army units. The primary mission performed at JBLE-Langley is the mission of the 1st Fighter Wing. JBLE-Eustis is a Training and Doctrine Command installation that provides training related to operations that require transportation modes, including rail, marine, and amphibious movements.



Economic Impact

The DoD provides direct, indirect, and induced economic benefits to local communities through jobs and wages. Benefits include employment opportunities, increases in local business revenue, and revenue from the sale and taxing of property. The annual economic impact of JBLE in the local economy was \$2.9 billion in 2018.

JBLE directly employs 20,497 military and civilian personnel, with military dependents accounting for an additional 7,162 personnel.

Noise Zones, Clear Zones, and Accident Potential Zones

Under the AICUZ Program, the DoD provides noise zones to define noise exposure. Noise exposure is measured using the Day-Night Average Sound Level (DNL), which is based on the number of annual average daily aircraft operations over a 24-hour period.

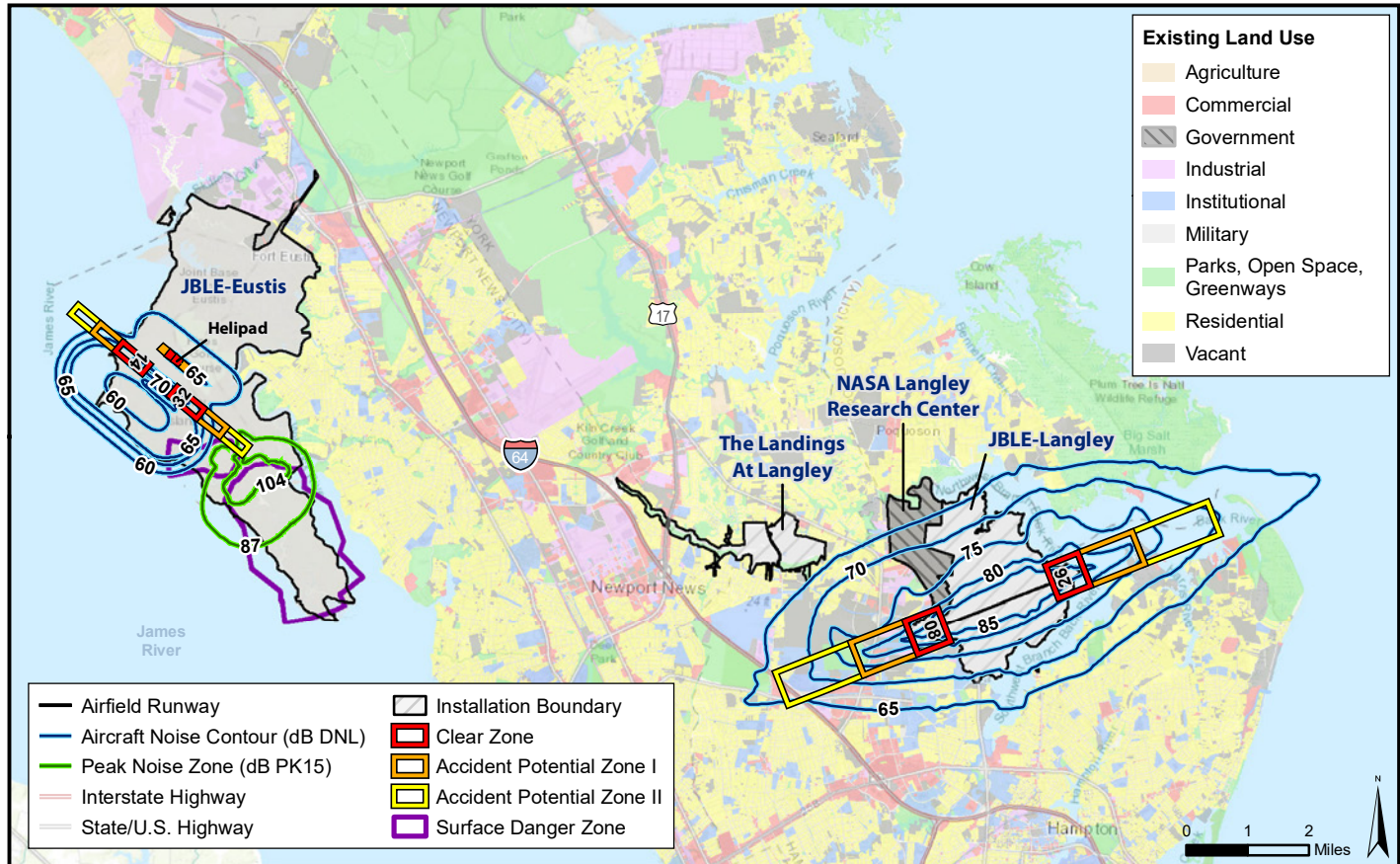
The DoD also provides Clear Zones (CZs) and Accident Potential Zones (APZs). Extending a combined total of 15,000 feet from the end of each runway along the runway's extended centerline, CZs and APZs define the areas where an aircraft accident is likely to occur, if an accident occurs - they are not predictors of accidents. While the chances of an accident are remote, mishaps do occur and proper land use planning can reduce risk to persons on the ground. The DoD also provides JBLE's surface danger zones and noise zones associated with the JBLE-Eustis small arms ranges.

The map on the next page shows noise zones, CZs, APZs, and surface danger zones over existing land use near JBLE.

Noise contours are based on typical operations and flight tracks during normal operations. Weather conditions, wind, pilot technique, and other air traffic can cause some lateral deviation within the traffic pattern around a runway.



2020 AICUZ Noise Contours, CZs, APZs, and Surface Danger Zones for Joint Base Langley-Eustis



Note: The aircraft operations and small arms operations noise contours shown on this map use different noise metrics. Please see the appropriate land use tables in Section 6.4 of the AICUZ Study for more information.

Compatible Development

The AICUZ Program includes guidelines for land use compatibility within noise zones, CZs, APZs, and surface danger zones. In general, these guidelines recommend that noise-sensitive land uses be placed outside of high noise zones and that people-intensive uses not be placed within APZs. Land development should be compatible with noise zones, CZs, and APZs around a military airfield. Near JBLE-Langley, existing land uses in these areas are generally compatible with some areas of residential, commercial, industrial, institutional and other types of land use that are incompatible with exceptions. The noise zones, CZs, APZs, and surface danger zones for JBLE-Eustis are either within the installation boundary or over water.

Although the military can serve in an advisory capacity, local governments control development beyond the boundaries of JBLE.



Hazards to Aircraft Flight Zone

Other land uses and activities that can pose potential hazards to flight include:

- Uses that would attract birds;
- Towers, structures, and vegetation that penetrate navigable airspace;
- Lighting (direct or reflected) that would impair pilot vision;
- Uses that would generate smoke, steam, or dust; and
- Electromagnetic interference (EMI) with aircraft communication and navigation.

The Hazards to Aircraft Flight Zone (HAFZ) is a consultation zone within which the Air Force requests that project applicants and local planning bodies consult with the Air Force to ensure the project is compatible with installation operations relative to these concerns.



Air Force and Community Roles

Implementation of the AICUZ Study must be a joint effort between JBLE and the surrounding communities. The 2020 JBLE AICUZ Study provides the best source of information about the roles the Air Force, local government, and the community can play to ensure land use planning decisions are compatible with a future installation presence.

For a copy of the JBLE AICUZ Study, please contact the 633d Air Base Wing Public Affairs Office at (757) 764-5701 or the 733d Mission Support Group Public Affairs Office at (757) 878-6115.

More Information

Concerned citizens with noise complaints are encouraged to contact:

633d Air Base Wing Public Affairs Office at (757) 764-5701 or the 733d Mission Support Group Public Affairs Office at (757) 878-6115.

JBLE also posts information on the installation website, including alerts about upcoming aircraft operations that are able to be shared publicly:

- **Website:** <http://www.jble.af.mil/>
- **Facebook:** <https://www.facebook.com/JointBaseLangleyEustis>
- **Twitter:** <https://twitter.com/JBLEstatus>

