

## RECENT NOISE AND LAND USE COMPATIBILITY PLANNING EXPERIENCE

Coffman Associates has been involved in noise studies and comprehensive land use plans at airports across the country since our inception in 1979. As incompatible land uses continue to encroach upon airports, it is important to study and evaluate the impacts of airport noise in the surrounding areas and protect and promote the safety and welfare of residents near airports. Coffman Associates has prepared more than 150 studies related to noise/land use compatibility.

### Ventura County Airports (Oxnard and Camarillo Airports), California

**Project:** Part 150 Noise and Land Use Compatibility Studies

**Completion:** Ongoing

**Key Personnel:** Kory Lewis, Project Manager;  
Madeline Holliman, Airport Planner

**Reference:** Keith Freitas, Director of Airports  
(805) 388-4200



**Description:** Coffman Associates is preparing Part 150 noise compatibility planning studies for Camarillo Airport and Oxnard Airport, two general aviation airports located in Ventura County, California. The studies, which will take up to 24 months to complete, will involve preparation of noise exposure maps using the FAA's Aviation Environmental Design Tool (AEDT). Flight tracks for each airport have been developed based on the county's noise and operations management system. Coffman Associates is conducting field noise measurements as part of the study. Due to the large number of noise complaints received at both airports, a robust public participation plan has been developed. Additionally, all study materials are being translated to Spanish and in-person meetings include Spanish and Mixtec interpreting services. Coffman Associates has also prepared pilot guides to support the county's Fly Friendly program, which encourages pilots to avoid noise-sensitive areas whenever possible, consistent with safe flying practices.

### Wilmington International Airport, North Carolina

**Project:** Part 150 Noise and Land Use Compatibility Study

**Completion:** Ongoing

**Key Personnel:** Kory Lewis, Project Manager;  
Madeline Holliman, Airport Planner

**Reference:** Jeffrey Bourk, AAE, Airport Director  
(910) 341-4333



**Description:** This small hub airport is the fastest growing airport in North Carolina; it served more than one million passengers for the first time in 2022, which increased by 21% to over 1.3 million in 2023. To accommodate additional growth, Wilmington International Airport (ILM) has undertaken an aggressive five-year capital plan to improve its commercial and general aviation facilities. As part of this five-year plan, ILM selected Coffman Associates to prepare a 14 CFR Part 150 airport noise compatibility planning study. Issues to be addressed by the Part 150 study include noise associated with military operations at the airport and potential impacts to a designated historic district located west of the airport. Coffman Associates has completed the forecast approval process and the first round of public involvement, and is coordinating with the FAA and U.S. Department of Defense to accurately model aircraft noise generated by the airport's existing and forecasted operations.

## Hawthorne Municipal Airport, California

**Project:** Part 150 Noise and Land Use Compatibility Study

**Completed:** June 2021

**Key Personnel:** Kory Lewis, Project Manager

**Reference:** Guido Fernandez, Airport Manager  
(310) 349-1636



**Description:** The Hawthorne Municipal Airport Part 150 Study and Noise Exposure Map (NEM) Update was an update of the study originally completed in 1990. Since the original study, the type of aircraft and number of operations altered noise conditions at the airport. The 2007 Airport Master Plan for Hawthorne Municipal Airport recommended the City of Hawthorne update the 1990 noise compatibility study to address ongoing concerns about aircraft noise. The noise compatibility plan explores the full range of options available, including overlay zoning, property acquisition, and home sound insulation, so that local officials can meet increasing aviation demand, while continuing to be a good neighbor. Public outreach and education were key components of the NEM update, as implementation of Next Generation Airspace procedures and large development project in the vicinity of the airport have increased awareness of aircraft activity.

## Johnson County Planning Department, Johnson County, Kansas

**Project:** Comprehensive Land Use Compatibility Plans

**Completed:** February 2024

**Key Personnel:** Kory Lewis, Project Manager;  
Madeline Holliman, Airport Planner

**Reference:** Sean Pendley, Deputy Director,  
Johnson County Planning Department, (913) 715-2205



**Description:** Coffman Associates was selected to update the Airport Land Use Compatibility Plans for New Century AirCenter and Johnson County Executive Airport. Both airports are located in Johnson County, Kansas, in the southwest suburbs of Kansas City. The plans, which were last updated in 1996 and 2004 respectively, are components of the County's Rural Comprehensive Plan. Since the plans were initially adopted, the airport property boundaries and land uses surrounding the airports have changed considerably. The area surrounding New Century AirCenter has experienced a tremendous amount of industrial and residential development, while the area around Johnson County Executive Airport has steadily been developed with new residential units.

The plan update was viewed by the County as a modernization effort. Drawing on guidance from FAA's Advisory Circular 150/5190-4B, Coffman Associates developed the updated plans to provide compatibility guidance for the land within one mile of the County's two general aviation airports. Coffman Associates updated the land use mapping, developed a safety compatibility matrix, and prepared noise exposure contours based on a 20-year forecast condition for both airports. All mapping, safety zones, and noise exposure contours were delivered in a format compatible with the County's existing Geographic Information System.

As part of the process, Coffman Associates facilitated four in-person meetings with a planning advisory committee (PAC). The PAC consisted of county and city planners, airport representatives, and airport users. The public was also invited to attend a series of four workshops for each airport, during which the study materials were presented and discussed.

The plans were unanimously adopted by the Board of County Commissioners in February 2024.