

# Airport Noise and Operations Monitoring System ANOMS

The noise monitoring system is a unique and important feature to the Westchester County Airport Environmental Department. The system allows Environmental Staff to collect, store, analyze, manage and distribute information concerning aircraft and community noise levels, aircraft operational data and citizen complaint data.

The original noise system was installed in 1985. Thirteen (13) Remote noise Monitoring Terminals (RMT) were placed under the normal arrival and departure flight paths of Westchester County Airport. The system continuously recorded all sound levels in “Real Time” 24 hours a day, 365 days a year. The noise data was sent via telephone lines and data lines to a central processing unit in the noise office. This sophisticated monitoring system made Westchester County a leader in the aviation noise industry. An additional noise monitor was added in 1991.

In 1995, the system was replaced with the latest technology Airport Noise and Operations Monitoring System (ANOMS). To keep up with new developments in technology, the computer hardware and software components were replaced allowing for greater noise and operational recording capability.

In 1999, the greatest advancement was the Y2K system upgrade to ANOMS 6.0. This upgrade incorporated the use of “Real Time” aircraft flight tracks. Through the utilization of a passive radar system (PASSUR), ANOMS imports flight tracks which provide aircraft type, altitudes, airspeed, mode of operation (arrival, departure or overflight) and operator information. The system automatically links noise events at each noise monitor to specific aircraft operations and to registered complaints.

In 1999, the County also initiated a study to evaluate the existing noise monitoring site locations and the need for additional noise monitors. The results of the study recommended the relocation of six noise monitors and the addition of six new noise monitors.

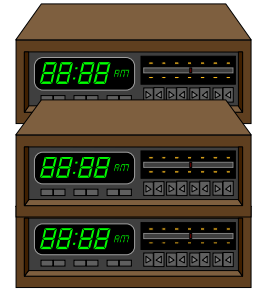
Today, the Westchester County Airport operates a state-of-the-art Airport Noise and Operations Monitoring System with 20 permanent noise monitoring sites located within six miles of the airport. The System allows the noise office to monitor all of Westchester County’s voluntary noise abatement programs, aircraft noise levels and community concerns with the highest level of accuracy and efficiency.

The Westchester County Noise Abatement Program continues to lead the industry in effectively identifying and reducing aircraft noise and its effects on the community.



Portable Noise Monitor

Twenty (20) noise monitors collect noise data 24 hours a day, 365 days a year.



A “Racal” Recorder records all pilot and air traffic control radio communications and audio from the 20 noise monitoring sites.



Work Station



CPU



Work Station

The Central Processing Unit allows staff to collect, evaluate and distribute information concerning noise, operations and citizen compliant data.



A passive radar system (PASSUR) collects real time flight track and operations data.

A weather station located on the roof of the main terminal building automatically records wind speed and direction, temperature and humidity.

