

# Airport eTAMIS Noise Management System

The Airport Noise Management System was purchased under the recommendations of the Federal Aviation Administration FAR Part 150 Noise Compatibility Program to assist in identifying those areas in the airport environs that were impacted by operations from Lambert-St. Louis International Airport. The system utilizes the latest technology in the gathering, analysis, and correlation of noise monitoring data, aircraft flight track data, and community noise related complaints.

The system is comprised of three major components with software that integrates these components.

The three (3) main components are:

## Noise Monitoring

The system measures noise at twenty permanent noise monitors that were placed at selected locations within the airport environs. The noise data collected is used to compare the forecasted noise levels from the FAR Part 150 Noise Compatibility program to actual current conditions.

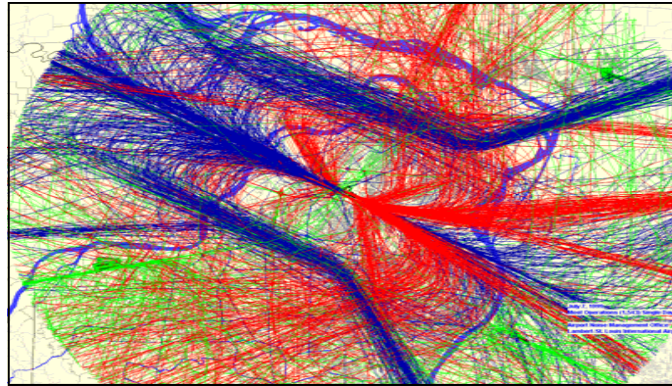


## Collection of Aircraft Radar Tracking Data

The system is connected to the Federal Aviation Administration (FAA) ARTS IIIIE radar computer that allows for the collection and transmission of aircraft flight track data to the Noise Office. Once the data is received in the noise office, the system correlates noise monitoring data with flight tracking data to insure that only aircraft operations and not community ambient noise is represented. Flight track-



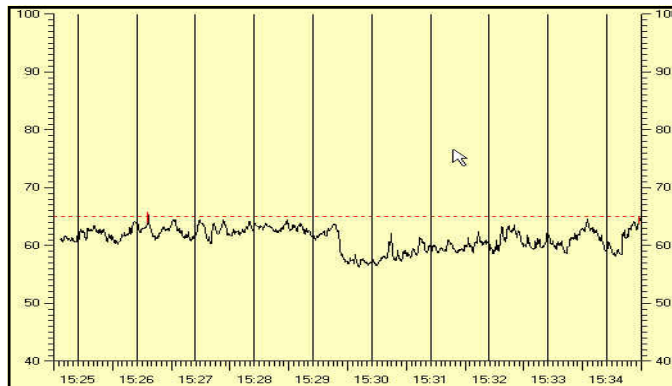
**The Airport is able to obtain actual ground tracks with the aircraft's altitude for both arriving and departing aircraft.**



Flight tracks generated from the system



Temporary Noise Monitor



Real time noise levels using dial-up connection

ing data is also used to verify compliance with the recommended operational procedures as stated in the approved FAR Part 150 Program. The system also archives noise and flight tracking data that will be used in future FAR Part 150 Noise studies.

**The system also provides for the viewing of instantaneous sound levels by use of a dial-up telephone connection.**

## Noise Complaints

The system also provides for the recording of community noise complaints and the correlation of these complaints to individual flight operations. The system can identify a complainant's home on a map and identify the flight operation that prompted the complaint. After identifying the operation it can easily determine if the operation was in accordance with the recommended operational procedures as stated in the FAR Part 150 Program.



## Temporary Monitoring

The system also provides for seven (7) Temporary Noise Monitoring Terminals. The temporary terminals are placed in areas on a temporary basis to gather noise data that will supplement data from the existing permanent Noise Monitoring System. Temporary Noise Monitors are also placed in the community to gather noise data for those citizens that feel they have a need for noise data at their individual residence. Data is gathered and analyzed and a report is given to the homeowner that explains the noise levels at their residence. Temporary Noise Monitoring is done twice at the same location, then averaged, to obtain the noise level at that location.



**The system has recently been updated with e-TAMIS, which allows the gathering and display of data via the internet.**

## Public Kiosk

Another feature of the Airport Noise Management System is the Public Kiosk.



The Public Kiosk consists of a computer workstation with a twenty four (24) inch color display monitor that enables the public to view a brief presentation on the Noise Management System and other Noise related programs. The presentation consists of:

- Presentation on the FAR Part 150 Noise Compatibility Program Update.
- Noise monitoring and noise complaint data from the Noise Management System.
- Presentation on the Airport's Residential Sound Insulation Program.
- Sample moving display of actual aircraft arriving and departing Lambert-St. Louis International Airport with tracking and altitude data.

*The Public Kiosk is located in the*

*Airport Office Building  
Noise Management Office  
11495 Navaid Road, 4th Floor,  
Bridgeton, MO 63044*

*and is available to the public,  
by appointment,  
during regular business hours.*

Lambert-St. Louis International Airport®  
Airport Planning & Development Office  
11495 Navaid Road, 4th Floor  
Bridgeton, MO 63044



# Airport eTAMIS Noise Management System



Noise Monitoring Site 18  
St. Ann Golf Course  
St. Ann, Mo

Airport Planning & Development Office  
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