

## Airport Noise Study

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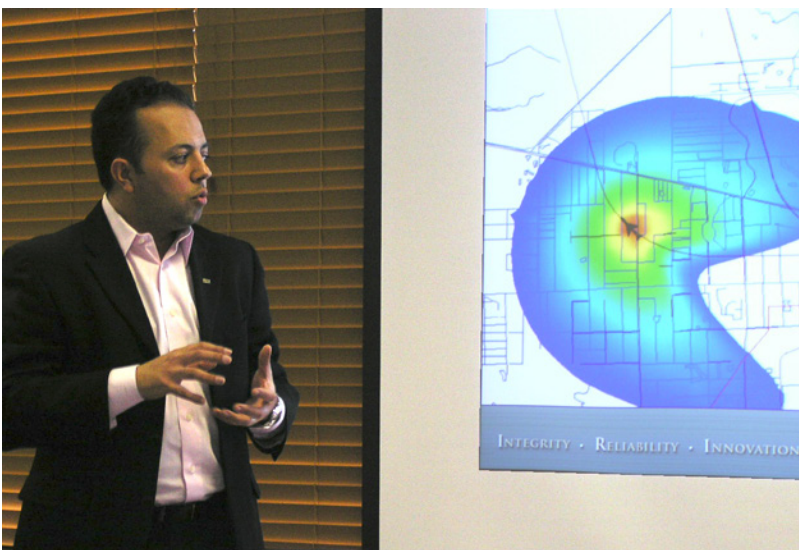
### Tweed Noise Study Is Underway!

As part of its commitment to the community, Tweed-New Haven Airport Authority has begun a noise study. This study, funded by the Federal Aviation Administration (FAA), will model and evaluate noise in the vicinity of the airport. It will also identify ways to reduce noise that is considered to be adverse to communities under Federal guidelines.

The 18-month long noise study began in early 2011. Data collection is underway, to be followed by an analysis of existing and future noise conditions, noise monitoring, development of alternatives, and study recommendations.

The noise study will culminate with two key components: noise exposure maps and a noise compatibility program. The noise exposure maps will show where noise impacts occur, today and into the future. The noise compatibility program will consist of measures proposed to reduce noise impacts on the community.

Public outreach is an important part of the noise study. The public will have many opportunities to participate. Two advisory committees have also been formed to help guide the noise study (see related story on page 2). An interactive study website has been created so the public can follow the study's progress, make comments, and ask questions about the study (see related story on page 3).



**Jawad Rachami of Wyle Laboratories presenting an aircraft noise simulation at a Community Advisory Committee meeting in March 2011.**

### Key Goals of the Tweed Noise Study

1. Assess the existing noise conditions around Tweed airport.
2. Determine what the future noise conditions might be.
3. Develop a federally-approved plan to reduce noise impacts from aircraft.
4. Seek federal funding to implement the plan.

The noise study is being conducted by a consultant team hired by Tweed-New Haven Airport Authority. The consultant team is led by Wyle Laboratories, with assistance from Fitzgerald & Halliday, Inc. The noise study is expected to be completed by April 2012.

### **PUBLIC MEETING ANNOUNCEMENT!**

The first Tweed Noise Study Public Meeting has been scheduled for **Wednesday, July 13, 2011**. The public meeting will be held from **6 p.m. to 8 p.m.** in the **cafeteria at Nathan Hale School** (480 Townsend Avenue) in New Haven. Attend and find out what the noise study is all about!

## Tweed Noise Study Advisory Committees Formed

Two advisory committees have been formed to help guide the Tweed Noise Study. These committees will provide input on the noise study.

### Technical Advisory Committee

The Technical Advisory Committee (TAC) includes Tweed-New Haven Airport Authority directors and air traffic control staff as well as representatives from the Federal Aviation Administration, Connecticut Department of Transportation, the City of New Haven, the Town of East Haven, and airport tenants. The role of the TAC is to provide technical information to the study team and confirm data about existing aircraft operations, flight procedures, and potential future development.

### Community Advisory Committee

The Community Advisory Committee (CAC) is comprised of residents who primarily live near the airport, from both New Haven and East Haven. CAC representatives provide community perspectives on noise issues around the airport, share experiences and informa-



*Jill Barrett of Fitzgerald & Halliday, Inc. explains the role of the Technical Advisory Committee at its March 2011 meeting.*

tion about the airport, and provide feedback and suggestions based on individual and collective concerns of sur-

*See Committees formed, page 3...*

## Study Schedule

	2011							2012		
	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
Data Collection	■									
Noise Monitoring	■	■								
Existing & Future Noise Conditions	■	■	■	■	■	■	■			
Noise Exposure Maps	■	■	■							
Alternatives Analysis				■	■	■	■			
Noise Compatibility Program							■	■		
Advisory Committee Meetings (6)	▲					▲	▲		▲	
Public Meetings (3)	▼					▼	▼			
Public Hearing (1)										◆
Newsletters	●				●		●			●

#### NOTES:

Advisory Committee Meetings were held in December 2010 and March 2011.

The Public Hearing will be held in March 2012, followed by Federal Aviation Administration review of the Noise Compatibility Program and Noise Exposure Maps.

## FAA Computer Model used in Noise Study

A computer model, developed by the Federal Aviation Administration (FAA), will be used by analysts to study aircraft noise at Tweed. A "model" is a computer program that analyzes factual data. The FAA model uses information about aircraft activity at an airport and predicts noise over a wide area around the airport. The model considers specific types of aircraft, runways and flight paths used by those aircraft, as well as standard weather and aircraft performance information. The model can be used to study noise at any airport, securing consistent and comparable results.

The noise model works by processing information specific to Tweed for a one-year period, including the number of take-offs, landings, training flights; the types of aircraft; the runways and flight routes used; and weather conditions. It generates a footprint of the existing noise environment and helps analysts model the future noise conditions. The model relies on an extensive library of measured sound level data for various aircraft including those operating at Tweed. The model adjusts for, or "penalizes," noise created at night, between the hours of 10 p.m. and 7 a.m., when people are more sensitive to noise.

Besides the model, supplemental noise measurements will also be taken during the Tweed study for informational purposes. However, the FAA **requires** the use of the computer noise model to develop more accurate and comprehensive information than is developed using noise measuring devices. Noise measurements taken in the field only capture single, or short-term, noise events and do not allow for a comprehensive assessment of noise exposure over a wide area around the airport over a long-term period, such as a whole year.



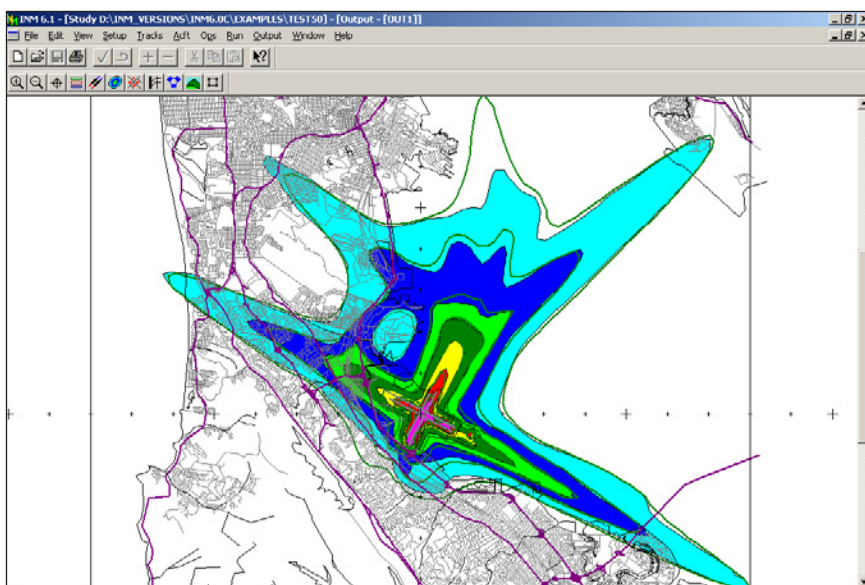
## Website is up and running!

Visit the study website at [www.tweedupdate.com](http://www.tweedupdate.com). The website features pages on:

- News and events
- Public involvement
- Links to study documents
- Glossary of technical terms

The website, which will be updated frequently, is also a place for people to submit comments and add themselves to the study mailing list. Those on the study mailing list will receive future newsletters and invitations to public informational meetings.

Check the website frequently for news and information!



**Example of how the Federal Aviation Administration computer model creates an airport noise "footprint". Noise footprints will be created for Tweed as part of the study.**

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## Committees formed, from page 2

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rounding communities. The CAC will also help evaluate proposed study recommendations.

Both the Technical Advisory Committee and the Community Advisory Committee will meet throughout course of the noise study to receive information and share their input.

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Visit us on the web!

[www.tweedupdate.com](http://www.tweedupdate.com)



## Public Encouraged to get Involved in the Noise Study!

Tweed-New Haven Airport Authority is providing several ways for the public to get involved with the noise study and offer comments:

### Public Information Meetings



Four public information meetings will be held near the airport in East Haven and New Haven during the course of the noise study. These public meetings will provide information about the study and allow residents, particularly neighbors of Tweed, to comment and ask questions.

Two of these meetings will be held after the study team gathers data about airport operations. The other two meetings will be held when alternatives and recommendations have been developed for discussion.

### Newsletters



A series of newsletters will help keep the community informed about the Tweed Noise Study. The newsletters will announce opportunities for public comment, provide an update on study progress, and share other important study news.

### Mailing List @

A study mailing list is being developed to distribute information about the study and alert those on the list about public information meetings. If you would like to add your name to the study mailing list, please visit the Contact Us webpage of the study website at [www.tweedupdate.com](http://www.tweedupdate.com) or send an email to [lstegina@fhiplan.com](mailto:lstegina@fhiplan.com). You may also submit public comments via the study website or this email address.

### Noise Study Team Contacts

For more information about the Tweed Noise Study, please contact:

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