# Lehigh Valley International Airport 14 CFR Part 150 Noise Compatibility Study Update



# Community Advisory Committee Meeting #1

LNAA Boardroom Allentown, PA



*Presented by:* Wyle Laboratories, Inc.

January 28, 2015

## Agenda

Staff and Committee Introductions
Part 150 Study Overview/Purpose
Study Process and Timeline

NEM Status

Supplemental Noise Measurements

Existing and Future NCP

Sound Insulation Considerations

CAC Action Items

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## **Wyle Introduction**



# **CAC Introduction**

- Paul Anthony, Hanover-Northampton (unable to attend today)
- Christine Brader, Whitehall
- Dan Hoffman, Hanover-Northampton
- Kathy Ibrahim, Whitehall
- Mary Jo Johnson, Bethlehem
- Jose Silva/Elsie Perez, Hanover-Northampton
- Catasauqua Representative to be determined

# **Technical Advisory Committee**

- Hanover-Northampton Board of Supervisors: Chairman John Diacogiannis
- FAA: John Herber, Tower Operations
- Township of Whitehall: Mayor Ed Hozza, Jr.
- Delta Airlines: John Nieman
- Borough of Catasauqua: Mayor Barbara Schlegel
- East Coast Jets: Ryan Snyder, Pilot
- FedEx: Mike Wakely, Ramp Operations Manager
- New World Aviation: Randall Wood, Chief Pilot
- Lehigh Valley Aviation Services (LVAS): Joan Zandarski, Operational Duty Manager

## Part 150 Study Overview

A 14 CFR Part 150 Aircraft Noise Compatibility Study identifies incompatible land use around airports and recommends measures to (a) mitigate existing problems and (b) prevent future ones.

## **Project Purpose**

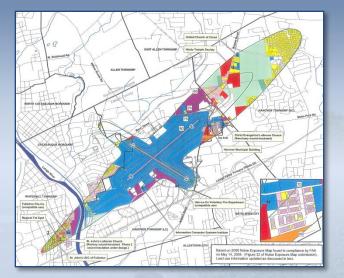
To update LVIA's Noise Compatibility Program, we are developing:

#### □ Noise Exposure Map (NEM)

To show where aircraft noise exposure occurs today and a five year forecast

#### □ Noise Compatibility Program (NCP)

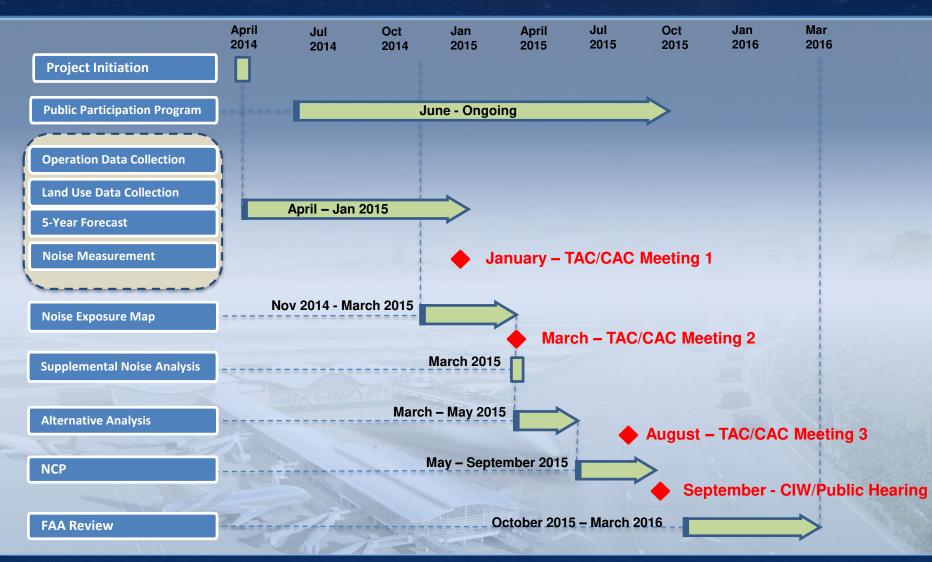
Measures/recommendations proposed to reduce noise exposure in the community



## Advisory Committees Public Participation



## Part 150 Process and Timeline



# **NEM Development**

- Flight Operations
  - FAA Air Traffic Activity and Display System (ATADS)
  - FAA Terminal Area Forecast (TAF)
  - Bureau of Transportation Statistics (BTS) T-100 (CY13)
  - Landing Fee Reports
  - Air Traffic Control Tower (ATCT) input
- Flight tracks based on radar data
- Technical work nearly ready for LVIA/TAC review



## **2020 Forecast Flight Operations - draft**

			Closed Pattern						
	Departure		Arrival		(1)		Total		
	Day	Night	Day	Night	Day	Night	Day	Night	
Category or	(7 am-	(10 pm·	(7 am-	(10 pm-	(7 am-	(10 pm	(7 am-	(10 pm-	
Group	10 pm)	7 am)	10 pm)	7 am)	10 pm)	7 am)	10 pm)	7 am)	Total
Subtotal by ATAR Category									
Air Carrier	1,198	23	1,209	12	-	-	2,407	35	2,442
Cargo	469	764	94	1,139	-	-	563	1,903	2,466
Air Taxi	5,293	1,178	5,133	1,338	-	-	10,426	2,516	12,942
GA	36,364	3,376	36,752	2,987	9,098	418	82,214	6,781	88,995
Military	294	-	294	-	-	-	588	-	588
Subtotal by Group									
Heavy Jet	35	471	31	475	-	-	66	946	1,012
Large Jet	1,429	294	1,265	458	-	-	2,694	752	3,446
Regional Jet	4,761	1,024	4,677	1,108	-	-	9,438	2,132	11,570
Business Jet	19,397	2,355	19,643	2,109	1,110	189	40,150	4,653	44,803
Turboprop	7,334	844	7,497	681	-	-	14,831	1,525	16,356
Piston Prop	10,382	329	10,080	631	7,988	229	28,450	1,189	29,639
Helicopter	280	24	289	14	-	-	569	38	607
TOTAL	43,618	5,341	43,482	5,476	9,098	418	96,198	11,235	107,433

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## **Supplemental Noise Measurements**



# **2008 NCP Recommended Measures**

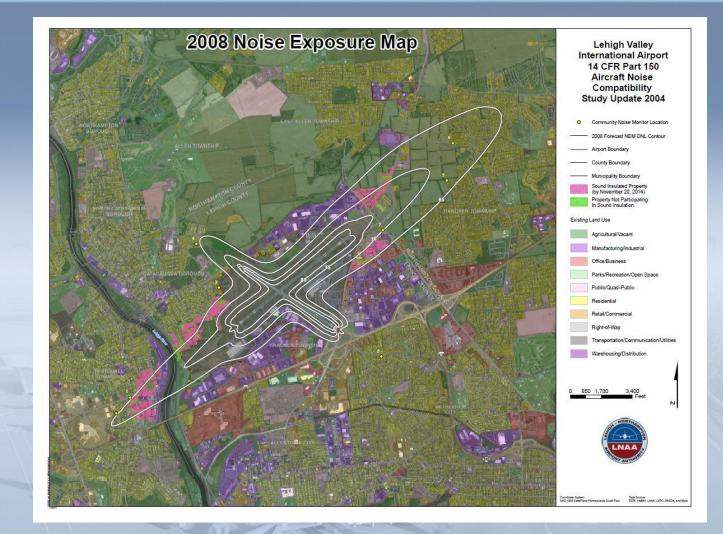
#### Implemented measures:

- Sound insulation of non-compatible properties located within 65 DNL of the 2008 Noise Exposure Map:
  - 632 residential properties, 3 churches sound insulated to date
- > Acquisition of Avigation Easements for sound insulated properties
  - Avigation Easement: A property right acquired from a land owner for the use of the airspace above the property in regards to all impacts (noise, exhaust, lights, height restrictions). Protects the safety of the Airport and Property Owner.

#### Continuation of Noise/Sound Insulation Program office

- Closed in 2013; Local staff available on-call
- Continuation of Noise Monitoring System
  - System shut down in January, 2013 due to reduced noise impacts; will be reevaluated as part of Study Update

## **Sound Insulation – Progress to date**



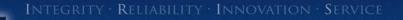
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# **Sound Insulation Eligibility Criteria**

- Sound insulation goals: 5 dB noise level reduction and interior noise level below 45 DNL post-construction
- Prior to 2012, eligibility requirements:
  - Residential or noise-sensitive structure (churches, hospitals, schools, daycares) located within the 65 dB DNL
  - Built prior to October 1, 1998
- 2012 FAA Program Guidance Letter (PGL)
  - Structures must also have an interior noise level greater than 45 dB DNL
  - Programs must be fully compliant by September 2015
- HVAC (cooling and ventilation systems) may be available for homes that have interior noise levels below 45 dB DNL

## **CAC Action Items**

- Provide input and feedback on Study information and potential noise mitigation measures;
- Talk to neighbors and community members regarding the Study;
- Encourage interested parties to submit questions and/or attend the Community Informational Workshop and Public Hearing.



# **TAC Input/Discussion**

#### **Contact Information:**

#### Lehigh-Northampton Airport Authority, Sponsor

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