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

Integrity · Reliability · Innovation · Service

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

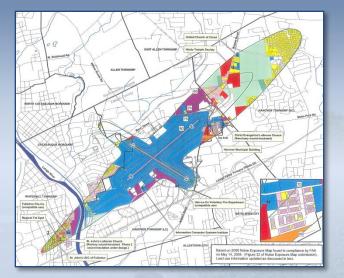
To update LVIA's Noise Compatibility Program, we are developing:

□ Noise Exposure Map (NEM)

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

□ Noise Compatibility Program (NCP)

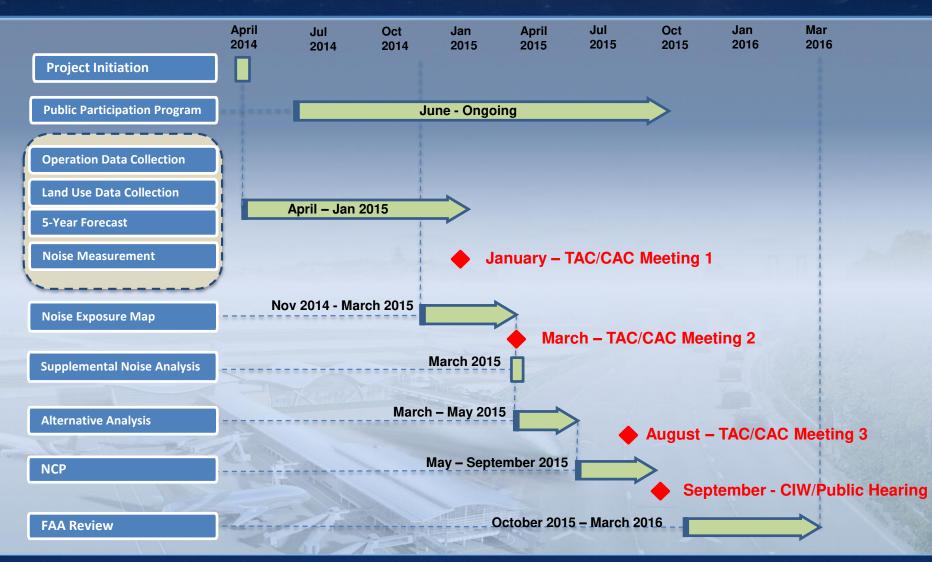
Measures/recommendations proposed to reduce noise exposure in the community



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

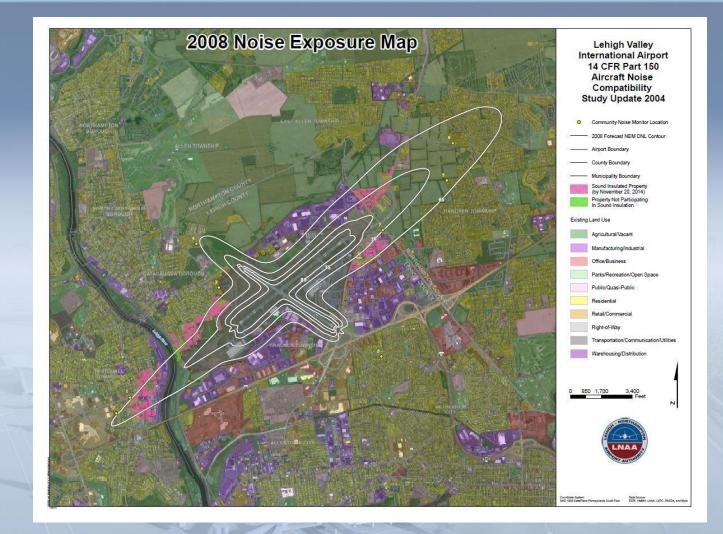
Implemented measures:

- 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



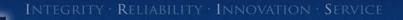
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Sound Insulation Eligibility Criteria

- 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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