# **APPENDIX G** Correspondence and Consultation

This Appendix includes correspondence and consultation associated with the Fort Lauderdale-Hollywood International Airport Part 150 Study.

- Study Kick-off Meetings with Local Jurisdictions (Oct./Nov. 2016)
  - Cooper City, Dania Beach, Davie, Fort Lauderdale, Hollywood, Plantation, Southwest Ranches, and Weston
- ANAC Briefing (Sept. 2016)
- Study Coordination Committee (SCC) Resolution and Briefing (August 2017)

# Study Kick-off Meetings with Local Jurisdictions October 24, 2016









# 14 CFR PART 150 NOISE AND LAND USE COMPATIBILITY STUDY

Local Jurisdiction Briefing October 24, 2016

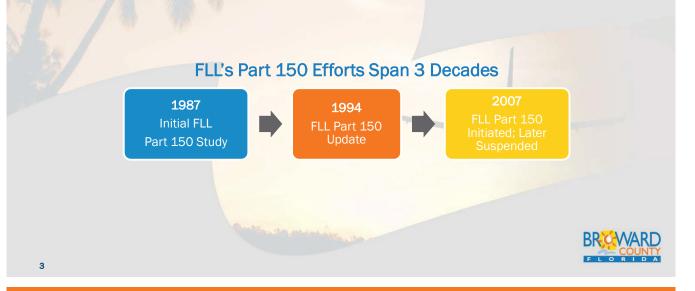


#### Agenda

- 1. Goals and Objectives
- 2. Study Elements
- 3. Years of Analysis
- 4. Data Collection
- 5. Public Website
- 6. Public Outreach
- 7. Technical Advisory Committee
- 8. Study Coordination Committee
- 9. Preliminary Schedule



The 14 CFR Part 150 process is the Airport Sponsor's mechanism to improve the compatibility between the Airport and surrounding communities



#### **Goals and Objectives**

### Analyze, Evaluate, Educate

- Determine existing and future noise conditions in the vicinity of an airport
- Identify incompatible uses
- Identify measures to improve compatibility
  - Evaluate the feasibility of possible flight procedure/land use changes
  - Submit locally-endorsed recommendations to the FAA regarding noise reduction measures
  - Approved measures may be eligible for Federal grant funding
- Educate communities on the Federal process and what can and cannot be done to address aircraft noise concerns

#### Part 150 Studies Must Adhere to 14 CFR Part 150 Guidelines to be Accepted and Approved by FAA



#### **Goals and Objectives**

# **Key Issues**

- Operational Concerns
  - Opening of New Runway
  - Change in Operation of North Runway
  - Potential Changes Related to NextGen/Metroplex
- Ongoing Residential Sound Insulation Program
- Community Education
- Expectation Management

### **Study Elements**

5

### Noise Exposure Map Report (NEM)

- Develop a Comprehensive Database of Current Conditions
- Noise Contour Development & Impact Analysis
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# Noise Compatibility Program (NCP)

- Identify and Evaluate Noise Abatement Alternatives
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# Stakeholder Outreach Program

- Local Jurisdictions/Agencies
- FAA
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#### **Years of Analysis**

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#### **Operational Data Collection**

# Model inputs (MPU Forecast, ANOMS, NCDC)

- Detailed fleet mix
- Time of day

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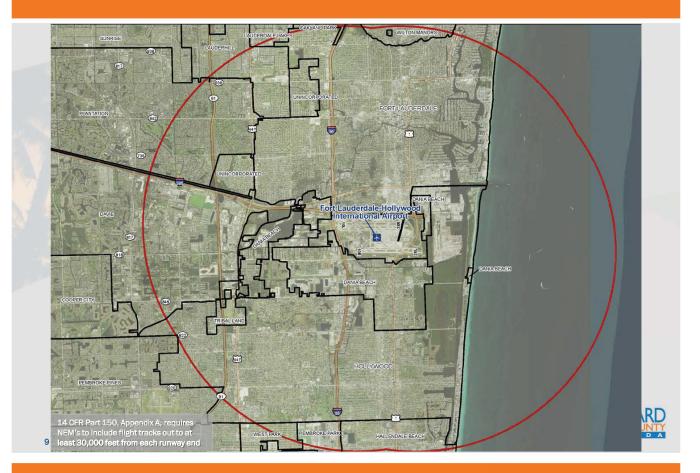
- Runway use
- Flight track location and use
- Stage length
- Meteorological conditions



Aviation Environmental Design Tool (AEDT) Version 2C



#### Land Use Data Collection – Minimum NEM Area



#### **Public Website**

# Project Website - www.fllpart150.com

# **Key Elements**

- Project information
- Notification of upcoming meetings
- Comment mechanism
- Links to other websites





### **Public Outreach**

# **Public Outreach**

- Initial Coordination with Nearby Jurisdictions
  - Series of meetings to present project and solicit TAC and SCC members
- Initial Kickoff Public Workshops
  - 5 informal workshops on consecutive nights
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### **Technical Advisory Committee**

# **Purpose and Objectives of the TAC**

- Represent the interests of their organization and/or constituents
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#### **Technical Advisory Committee Membership \***

## Who is typically represented?

- The Airport Proprietor (Broward County)
- The Federal Aviation Administration
- Aircraft operators airlines, cargo carriers, corporate and general aviation operators
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- Serves as a conduit for sharing of information that is developed during the Part 150 Study process
- Ensures timely and broad dissemination of information
- Established by Broward County Commission resolution on September 15, 2016
- Sunsets 30 days after the FAA issues its formal Record of Approval



#### **Study Coordination Committee Membership**

- 9 total members
- Representatives (and alternates) of 8 political subdivisions appointed by their governing boards or councils
  - City of Fort Lauderdale
  - City of Hollywood
  - City of Dania Beach
  - Town of Davie
  - City of Plantation
  - Town of Southwest Ranches
  - City of Weston
  - City of Cooper City
- A chairperson to be appointed by the BOCC



#### 15

#### Schedule

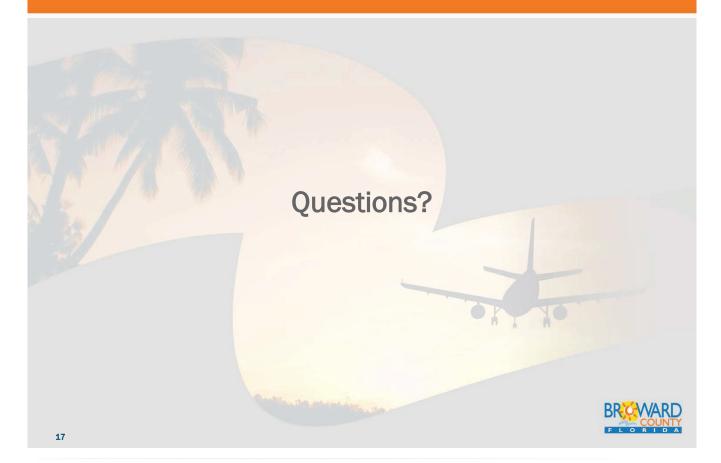
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### 14 CFR Part 150 Overview



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William CASTillo	BCAD	954359229/		WCASTILISOBUNINOS . SAL
MILHAEL TALITTO	BCAD.	9-359 6103	BLACK	mencitles bound in
Lorie Mertens-Black	BCAD	9-359 6103 9/921-3599 407-312-1294	I meetens Halfwater	Im-b@hollywoodfog
MICHAUZ ARNOW	ESA	407-312-1294		marnold@esassac.com
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FORT LAUDERDALE-HOLLYWOOD

BROWARD



Meeting City & DAMIA Be	County Aviation Department - Airport Development ach - PARTISS Noise Study UPJATE
Date/Time: 10 24 2016	Location: BCAS Cast Run 2B

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Name and Title	Company	Work Phone #	Cell Phone #	Email Address
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MICHAN ARMOND	ESA	407-312-1294	F	marnollecsqssa.com
William Castillo	BCAD	9843592291		WCASTIN OBCONTOD DEG-
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	Meeting FLL PART 150 WHERE WIR The CITY of MANIATION
COUNTY	Date/Time: 1pm 12/24/2016 Location: Plantinon City Hall

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Winston B. Connicle	BCAA	(954)359-6131		wannicle broward. an
Danny A. Holmes	Plantotion- PZED	954-297-200	•	donalmes e Plantation. Org
Brett Butter Enginee-	Plantation-Eng	9-797-2781		butter c plantation of
Viane Vettric Bandekovic Mago	Plentation- Admin.	9-797-2221		dbenderovice plantations
MILHAEL PALITTO	BCAD	9-359-6103		Mppecito broward.or
William CASTilla	BEAD	9743592291		WOASTINGBOUMS-SEC
	-			





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William CASTillo	BCAD	9543562241		Wenstild @Benumme. 2n F
Doug MCKAy	TISUR	954-434-0008		DHCKAY @ SURAnches. or
ANDY BERNS	To SWR	11		DHCKAY @ Sultanches. or Aberns@ Swlanches. or
MICHAOL ARWOUD	ESA	467-312-1294		marrolde csassocium

FORT LAUDERDALE-HOLLYWOOD

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Will Cassille	BCAD	9543592241		WatsolleBunner
Windon Cannicle	BCHA	(954) 359 6181		Warnoldessoso.com
Millitad Armous	ESA	407-312 1294		maraold@essessoc.com
John Flint	Weston	954.385.Coo		JFIInto Vestoutz.on



# Study Kick-off Meetings with Local Jurisdictions November 7, 2016









# **14 CFR PART 150 NOISE AND LAND USE COMPATIBILITY STUDY**

Local Jurisdiction Briefing November 7, 2016

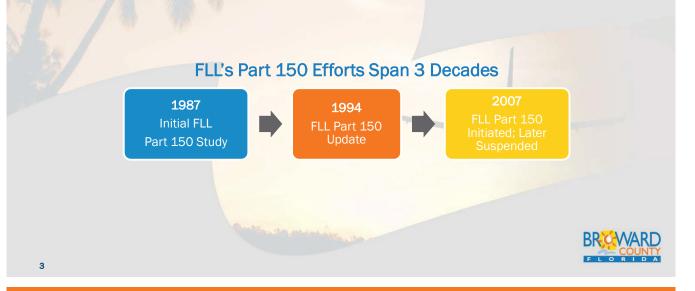


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- 3. Years of Analysis
- 4. Data Collection
- 5. Public Website
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- 8. Study Coordination Committee
- 9. Preliminary Schedule



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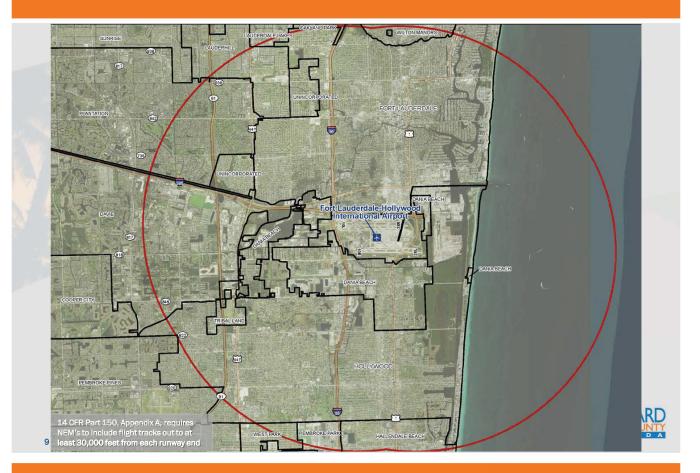
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Aviation Environmental Design Tool (AEDT) Version 2C



#### Land Use Data Collection – Minimum NEM Area



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# **Key Elements**

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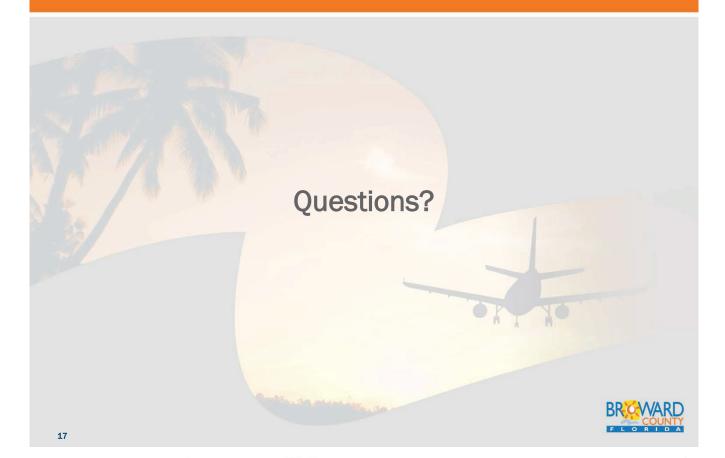
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### 14 CFR Part 150 Overview



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MICHAOL ARNOLD	ESA	407-312-1294		marvold@esqssoc.con
Diana Alarcon	CFTL	(9)828-3793	(9)557-7463	dalarcon@fort/undado 50
JULIE LEONARD	FORTLANS	828-7999	9 401-3041	FORTHUDERDAG GOV
CHEIS LAGREDOOM	FT	(9)828-5758	(9) 952.5889	clagurbloom @ Portlanderable.gov
Lee Feldman	CFL	954-828-5959		Ifeldman & fortlanderdale. sou
Rufus A. James	CFL	9-828-4968		rjames ofort lauderdde. gev
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FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT

BROWARD



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Greg Russ	MAYOF Cooper City	954-434-4300		MAYOF-RUSS @ (aspercity PZ
bruce Loucks	MAYOF COSPER CITY CITY-1988- COSPERCITY	954-434-4300		ucannicle e browned.o Mayor-Russel appending PZ Bloucke e coopercing tZ

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FORT LAUDERDALE HOLLYWOOD

# ANAC Briefing September 19, 2016





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ANAC Briefing September 19, 2016

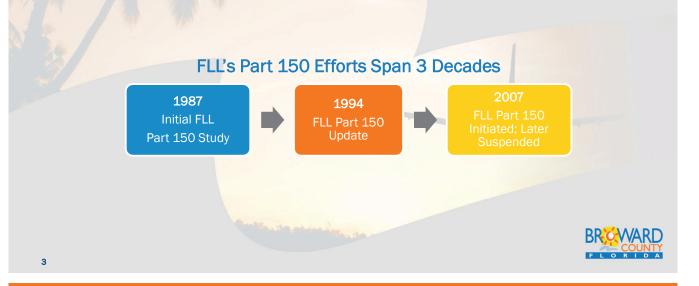


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#### **Master Plan Forecast**

7

# **Baseline Operational Assumptions Used in Study**

- Establish future operations and fleet mix
- Ensure consistency between studies
- Forecast approval is a critical path item



### **Data Collection - Operational**

# Model inputs (MPU Forecast, ANOMS, NCDC)

- Detailed fleet mix
- Time of day
- Runway use
- Flight track location and use
- Stage length

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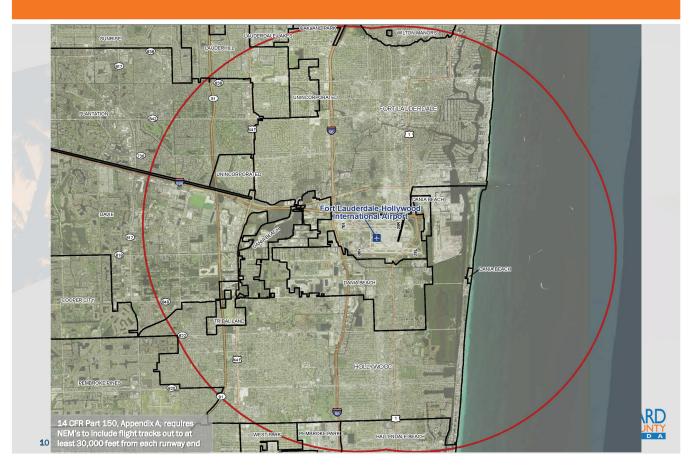
Meteorological conditions



Aviation Environmental Design Tool (AEDT) Version 2C



#### **Data Collection – Minimum NEM Area**



### **Public Website**

# Project Website - www.fllpart150.com

**Consistent with BCAD Standards** 

# **Key Elements**

- Project information
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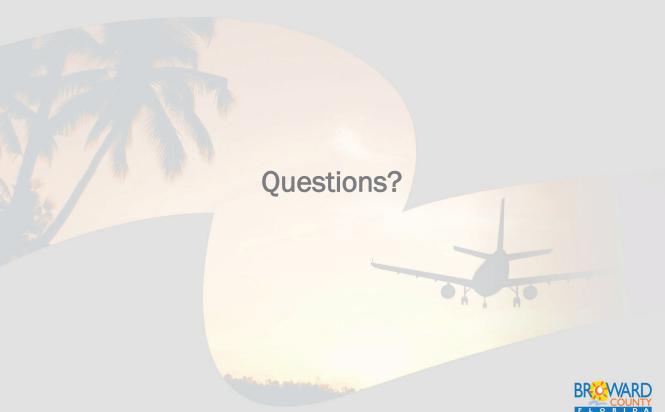
## Schedule

# Preliminary Part 150 Schedule

## Noise Exposure Maps



#### 14 CFR Part 150 Overview



# Study Coordination Committee Resolution September 2016



Broward County Commission Regular Meeting				
Meeting Date:	09/15/2016			
Director's Name:	Mark Gale			
Department:	Aviation	Division:	Planning	

#### Information

**Requested Action** 

MOTION TO ADOPT Resolution No. 2016-391 establishing a Federal Aviation Regulation Part 150 Noise Compatibility Study Coordination Committee, the title of which is as follows:

A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF BROWARD COUNTY, FLORIDA, ESTABLISHING A FEDERAL AVIATION REGULATION PART 150 STUDY COORDINATION COMMITTEE TO FACILITATE DISSEMINATION OF INFORMATION FROM THE PART 150 NOISE COMPATIBILITY STUDY PROCESS; PROVIDING FOR APPOINTMENT OF COMMITTEE MEMBERS; PROVIDING FOR MEETINGS; PROVIDING A SUNSET PROVISION, AND PROVIDING FOR SEVERABILITY AND AN EFFECTIVE DATE.

#### ACTION: (T-10:31 AM) Approved.

VOTE: 8-0. Commission District 3 is open.

Why Action is Necessary

Broward County Board of County Commissioners' (Board) approval is required to adopt a Resolution.

What Action Accomplishes

Provides for a Federal Aviation Regulation (FAR) Part 150 Noise Compatibility Study Coordination Committee for Broward County's Fort Lauderdale-Hollywood International Airport.

Is this Action Goal Related

Previous Action Taken None.

Summary Explanation/Background THE AVIATION DEPARTMENT RECOMMENDS APPROVAL OF THE ABOVE MOTION.

This proposed Resolution will enact a FAR Part 150 Noise Compatibility Study (Part 150 Study) Coordination Committee. A Part 150 Study Coordination Committee will provide a centralized process to facilitate dissemination and sharing of information that is developed during the Part 150 Study to local communities.

The Committee will consist of nine members; a Chair appointed by the Board, and a representative and alternate representative from each of the following political subdivisions: Cities of Fort Lauderdale, Hollywood, Dania Beach, Plantation, Weston and Cooper City, and Towns of Davie and Southwest Ranches. Each of the individual governing boards or councils of the above political subdivisions shall appoint residents of their political subdivisions to serve in the capacity of representative and alternate representative for the duration of the Committee.

This item has been reviewed and approved as to form by the Office of the County Attorney.

Source of Additional Information Mark E. Gale, A.A.E., CEO/Director of Aviation, (954) 359-6199 Alexander J. Williams, Jr., Assistant County Attorney, (954) 359-7201 Fiscal Impact

Fiscal Impact/Cost Summary: There is no fiscal impact associated with this action.

Attachments

Exhibit 1 - Resolution

I	RESOLUTION NO. 2016-
1	A RESOLUTION OF THE BOARD OF COUNTY
2	COMMISSIONERS OF BROWARD COUNTY, FLORIDA, ESTABLISHING A FEDERAL AVIATION REGULATION
3	PART 150 STUDY COORDINATION COMMITTEE TO FACILITATE DISSEMINATION OF INFORMATION FROM
4	THE PART 150 NOISE COMPATABILITY STUDY
5	PROCESS; PROVIDING FOR APPOINTMENT OF COMMITTEE MEMBERS; PROVIDING FOR MEETINGS;
6	PROVIDING A SUNSET PROVISION, AND PROVIDING FOR SEVERABILITY AND AN EFFECTIVE DATE.
7	
8	WHEREAS, Broward County ("County") owns and operates Fort Lauderdale-
9	Hollywood International Airport ("Airport"); and
10	
11	WHEREAS, the day-to-day maintenance and operation of the Airport has been
12	delegated to the Broward County Aviation Department ("Aviation Department"); and
13	
14	WHEREAS, on April 12, 2016, the Board of County Commissioners of Broward
15	County, Florida ("Board") approved the award of an agreement ("Agreement") to
16	Environmental Science Associates Corporation ("Consultant") for "FAR Part 150 Noise
17	Compatibility Planning Consulting Services"; and
18	
19	WHEREAS, the Agreement provides for consultant services to assist the Aviation
20	Department in conducting a Part 150 Noise Compatibility Study for the Airport ("Part
21	150 Study"); and
22	
23	WHEREAS, FAR Part 150 is the primary Federal regulation guiding and
24	controlling planning for aviation noise compatibility on and around airports.

1 WHEREAS, the Part 150 Study will analyze existing and future Airport noise 2 exposures, identify appropriate land uses surrounding the Airport, and recommend noise compatibility planning and programs consistent with Federal Aviation 3 Administration (FAA) requirements and the Board's policy directives; and 4 5 6 WHEREAS, the Board desires to establish a Part 150 Study Coordination 7 Committee in order to provide a centralized process to facilitate dissemination and 8 sharing of information that is developed during the Part 150 Study, NOW, 9 THEREFORE. 10 BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF 11 BROWARD COUNTY, FLORIDA: 12 13 14 Section 1. PART 150 STUDY COORDINATION COMMITTEE. 15 Creation and Purpose of Committee. There is hereby created a (a) 16 committee to be known as the "Part 150 Study Coordination Committee" ("Committee"). 17 The Committee's purpose is to facilitate dissemination and sharing of information that is 18 developed during the Part 150 Study process on a timely basis to the political 19 subdivisions of the respective Committee members. 20 (b) Committee Meetings. The Aviation Department will brief and provide 21 information to the Committee members regarding the progress of the Part 150 Study. 22 Each Committee member will be expected to brief and distribute the received 23 information to the governing body of such Committee member's political subdivision. 24

(c) <u>Public Meetings</u>. Separate from any Committee meetings, there will be
 Part 150 Study meetings for public attendance, outreach briefings, and other public
 comment meetings throughout the progress of the Part 150 Study. The Committee
 members will be advised of such scheduled meetings, information that is disseminated,
 and progress of the Part 150 Study so the Committee members may inform their
 respective political subdivisions of same on a timely basis.

7 (d) <u>Membership</u>. The Committee will consist of nine (9) members. The chair
8 of the Committee shall be appointed by the Board of County Commissioners. The
9 remainder of the Committee will be made up of a representative and an alternate
10 representative from each of the following political subdivisions:

- 11 (1) City of Fort Lauderdale
- 12 (2) City of Hollywood
- 13 (3) City of Dania Beach
- 14 (4) Town of Davie
- 15 (5) City of Plantation
- 16 (6) Town of Southwest Ranches
- 17 (7) City of Weston
- 18 (8) City of Cooper City

Each of the individual governing boards or councils of the above political subdivisions
shall appoint residents of their political subdivisions to serve in the capacity of
representative and alternate representative for the duration of the Committee. All
appointments shall be "at will," and vacancies shall be filled in the same manner as the
initial appointments.

(e) <u>Removal of Members</u>. By a majority vote, the Committee may request the
 appointing political subdivision to remove a member of the Committee who misses more
 than two (2) consecutive meetings or events without notifying the Committee.

4 (f) <u>Organizational Issues</u>. At any time after the initial meeting of the
5 Committee, the Committee may adopt rules of procedure deemed necessary for the
6 conduct of its business.

7 (g) <u>Expenses and Staff Support</u>. Members of the Committee shall serve
8 without compensation. The Director of the Aviation Department may, on a discretionary
9 basis, provide staffing to assist the Committee in the conduct of its business.

Meetings. The Committee shall meet as needed.

10

(h)

11 12

#### Section 2. <u>SUNSET PROVISION</u>.

The Committee shall sunset and shall cease to exist thirty (30) days after the
conclusion of the FAA's 180-day review of the Airport's Noise Compatibility Program
generated by the Part 150 Study process.

16

17

#### Section 3. <u>SEVERABILITY</u>.

If any portion of this Resolution is determined by any Court to be invalid, the invalid portion shall be stricken, and such striking shall not affect the validity of the remainder of this Resolution. If any Court determines that this Resolution, or any portion hereof, cannot be legally applied to any individual(s), group(s), entity(ies), property(ies), or circumstance(s), such determination shall not affect the applicability hereof to any other individual, group, entity, property, or circumstance.

1	Section 4. EFFECTIVE DATE.
2	This Resolution shall become effective upon adoption.
3	
4	ADOPTED this day of, 2016.
5	
6	Approved as to form and legal sufficiency.
7	Approved as to form and legal sufficiency: Joni Armstrong Coffey, County Attorney
8	
9	By <u>/s/ Alexander J. Williams 09/02/16</u>
10	Alexander J. Williams (date) Assistant County Attorney
11	
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21	
22	AJW/ch 09/02/16
23	150 Comm. Reso 16-008.00
24	#16-071.07

Study Coordination Committee Briefing August 23, 2017





# **14 CFR PART 150 NOISE AND LAND USE COMPATIBILITY STUDY**



Study Coordination Committee Meeting #1 August 23, 2017



# BROWARD

### **Presentation Outline**

- Part 150 Study Overview
- Introduction to Aircraft Noise, Modeling, and Compatibility
- Airport Overview
- Public Outreach
- Technical Committee
- Frequently Asked Questions
- Project Schedule
- Questions from the SCC



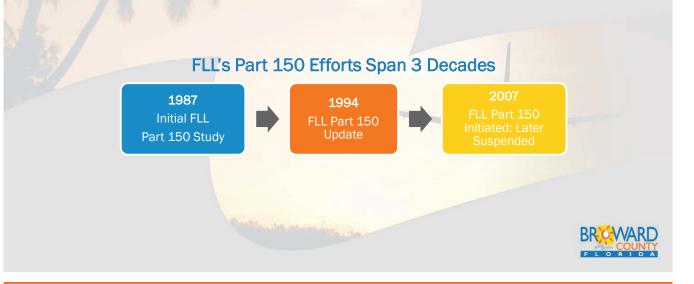


### 14 CFR Part 150 Overview

- Interim Rule on Federal Aviation Regulations (FAR) Part 150, *Airport Noise Compatibility Planning* issued in 1981 and finalized in 1985, later recodified as Title 14 Code of Federal Regulations (CFR) Part 150
- Issued in response to provisions contained in the Aviation Safety and Noise Abatement Act of 1979
- Establishes the methodology to be followed when preparing aircraft noise exposure maps and developing airport/airport environs land use compatibility programs
- Part 150 studies are voluntary, but...
- Part 150 studies must adhere to 14 CFR Part 150 guidelines to be considered and accepted and approved by FAA



The 14 CFR Part 150 process is the Airport Sponsor's mechanism to improve the compatibility between the Airport and surrounding communities



### Part 150 Study Overview

#### **Key Issues**

- Operational Concerns
  - Opening of New Runway
  - Change in Operation of North Runway
  - Potential Changes Related to NextGen/Metroplex
- Ongoing Residential Sound Insulation Program
- Community Education
- Expectation Management



#### **Regulatory Framework**

- Federal law sets aircraft noise standards, prescribes operating rules, establishes the compatibility planning process, and limits airport proprietor's ability to restrict aircraft operations.
- State law sets forth compatibility planning guidelines and noise standards but aircraft are exempt.
- **Local noise ordinances** set noise standards and provide for compatible land use planning but aircraft are exempt.

#### Who Can Regulate Airport Noise?

- Federal Aviation Administration: (1) Controls aircraft while in flight; (2) Responsible for controlling noise at its source (i.e., aircraft engines); (3) Certifies aircraft and pilots.
- Airport Proprietors/BCAD: (1) Very limited authority to adopt local restrictions; (2) Responsible for capital improvement projects and infrastructure.
- Local Governments and States: (1) Promote compatible land use through zoning; (2) Require real estate disclosure: (3) Mandate sound-insulating building materials.

# FEDERAL LAW PREEMPTS STATE AND LOCAL REGULATIONS

### Part 150 Study Overview

# Analyze, Evaluate, Educate

- Determine existing and future noise conditions in the vicinity of an airport
- Identify incompatible uses
- Identify measures to improve compatibility
  - Evaluate the feasibility of possible flight procedure/land use changes
    - Submit locally-endorsed recommendations to the FAA regarding noise reduction measures
  - Approved measures may be eligible for Federal grant funding
- Educate communities on the Federal process and what can and cannot be done to address aircraft noise concerns

Part 150 Studies Must Adhere to 14 CFR Part 150 Guidelines to be Accepted and Approved by FAA



#### Part 150 Study Overview

#### Noise Exposure Map Report (NEM)

- Develop a comprehensive database of current conditions
- Noise contour development and impact analysis
- Prepare and submit Noise Exposure Map (NEM) Report

### Noise Compatibility Program (NCP)

- Identify and evaluate noise abatement alternatives
- Identify and evaluate compatible land use alternatives
- Identify and evaluate administrative measures
- Prepare and submit Noise Compatibility Program (NCP) Report

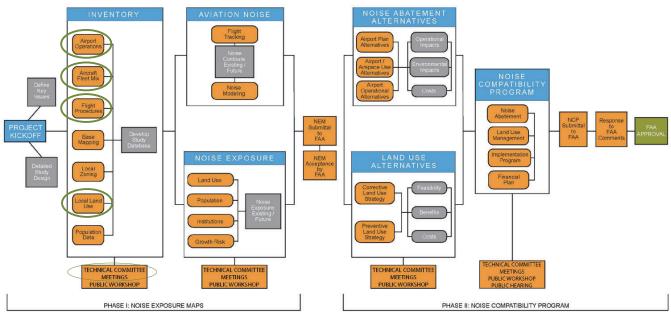
#### Stakeholder Outreach Program

- Local Jurisdictions/Agencies
- FAA
- Public

# BROWARD

10

## Part 150 Study Overview – General Study Process



#### Other Milestones:

- BCAD Initiation of a Study Coordination Committee in Fall 2016
- FAA Approval of the FLL Part 150 Study Forecast on April 10, 2017
- Website launched on May 3, 2017



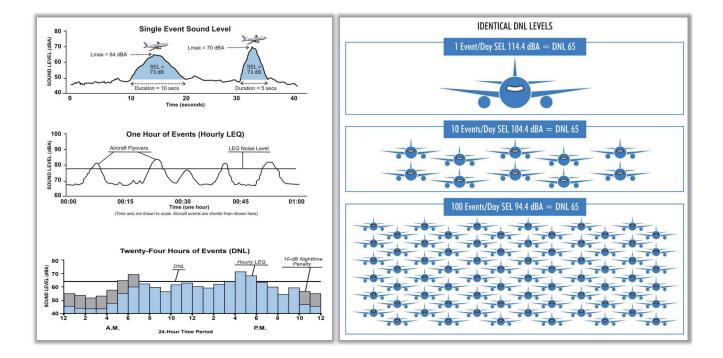
### Introduction to Aircraft Noise - DNL

# Day-Night Average Sound Level (DNL)

- 24-hour time weighted energy average noise level based on A-weighted decibels (dBA)
- Noise occurring between 10 p.m. to 7 a.m. is penalized by 10 dB to account for the higher sensitivity to noise during nighttime hours and for the expected further decrease in background levels that typically occur in the nighttime
- FAA requires the use of DNL for airport noise assessments
- Average Annual Day aircraft noise exposure is calculated over a broad area and then depicted using contour lines of equal noise levels



#### **Introduction to Aircraft Noise - DNL**



#### Part 150 Study Overview – Modeling

# **Noise Modeling**

- Aircraft noise modeling allows:
  - Calculation of noise exposure at any point
  - Depicting annual average aircraft noise exposure
  - Predicting future aircraft noise exposure
  - Assessing changes in noise impacts resulting from runway configuration changes or new runways
  - Assessing changes in fleet mix and/or number of operations
  - Evaluating operational procedures
- Aviation Environmental Design Tool (AEDT) replaced the Integrated Noise Model (INM) when it was released in 2015. The current version, AEDT 2C, will be used for the FLL Part 150 Study.



#### Part 150 Study Overview – Modeling

## **Model Inputs**

- The Amount of Noise Exposure is determined by:
  - Aircraft types
  - Stage length
  - Number of average annual day operations
  - Nighttime weighting (1 nighttime operation = 10 daytime operations)
- The Noise Exposure Distribution is determined by:
  - Runway configuration and use
  - Flight track locations
  - Flight track use
- Other Factors
  - Meteorological Conditions
  - Terrain

### Part 150 Study Overview – Land Use Compatibility

### Land Uses

- Existing and Future Land Use
- Land parcel data
- Zoning
- Jurisdictional boundaries and neighborhoods

# **Noise Sensitives Uses**

- Residential
- Places of worship
- Schools, colleges and universities
- Libraries/cultural institutions
- Hospitals and residential healthcare facilities
- Daycare and assisted living facilities
- Historic properties



#### Aviation Environmental Design Tool (AEDT) Version 2C





#### Part 150 Study Overview - Land Use Compatibility

# Land Use Compatibility

- Table 1 in Appendix A of 14 CFR Part 150 provides noise and land use compatibility guidelines
- Deems levels below 65 dB DNL to be compatible with all land uses
- Allows for the adoption of appropriate local land use standards for land use compatibility planning purposes

The 14 CFR Part 150 process is the Airport Sponsor's mechanism to improve the compatibility between the Airport and surrounding communities

Land Use		Yearly Day-Night Noise Level (DNL) in decibels							
			Belov 65	r.	65-70	70-75	75-80	80-85	Over 85
Residential									
Residential, o	other	than mobile homes and							
transient lod			Y		N(1)	N(1)	N	N	N
Mobile home			Y		N	N	N	N	N
Transient lod	Iging		Y		N(1)	N(1)	N(1)	N	N
Public Use									
Schools			Y		N(1)1	N(1)	N	N	N
Hospitals and			Y		25	30	N	N	N
		ims and concert halls	Y		25	30	N	N	N
Governmenta		rices	Y		Y	25	30	N	N
Transportati Parking	on		Y		Y	Y(2)	Y(3)	Y(4)	Y(4)
Parking			Ŷ		Ŷ	Y(2)	Y(3)	Y(4)	N
Commercial	Use								
		and professional	Y		Y	25	30	N	N
		ail-building materials,							
hardware and			Y		Y	Y(2)	Y(3)	Y(4)	N
Retail trade- Jtilities	gener	a	Y		Y	25	30	N	N
Communicati	ine.		Y		Y	Y(2) 25	Y(3) 30	Y(4)	N
communicati	JOH 1		1		7	25	30	IN IN	IN.
Manufacturi	ing a	d Production							
Manufacturin			Y		Y	Y(2)	Y(3)	Y(4)	N
Photographic			Y		Y	25	30	N	N
		t livestock) and forestry	Y		Y(6)	Y(7)	Y(8)	Y(8)	Y(8)
		and breeding	Y		Y(6)	Y(7)	N	N	N
wining and h	shing	resource production and extraction	Y		Ŷ	X	Ŷ	Y	Y
Recreationa									
		enas and spectator sports	Y		Y(5)	Y(5)	N	N	N
		Ils, amphitheaters	Y		N	N	N	N	N
Nature exhibit		s, resorts and camps	Y		Y	N	NN	N	NN
		g stables and water recreation	Y		Y	25	30	N	N
Numbers in p	oaren	heses refer to notes.							
and specific	al, Sta noise	contained in this table do not constitute a Federal de te or local law. The responsibility for determining the a contours rests with the local authorities. FAA deterr ermined to be appropriate by local authorities in resp	acceptable and per minations under Pa	missi irt 15	ble land use 0 are not in	s and the rel tended to su	ationship be ubstitute fee	tween specif terally determ	lic proper nined lan
Key to Tabl	e 1								
SLUCM	Sta	ndard Land Use Coding Manual.							
Y(Yes) N(No) NLR	Lar Noi	d Use and related structures compatible without rest d Use and related structures are not compatible and se Level Reduction (outdoor to indoor) to be achieved	should be prohibite	id.	of noise att	enuation int	o the desigr	and	
25, 30 or 35	Lar	struction of the structure. d Use and related structures generally compatible; m ign and construction of structure.	easures to achiev	e NILR	of 25, 30 o	r 35 dB mus	t be incorpo	rated into	
Notes	(1)	Where the community determines that residential or sch allowed, measures to achieve outdoor to indoor Noise L (NLR) of at least 25 dB to 30 dB should be incorporated in	evel Reduction	(3)	and constru	iction of porti	ons of these t	t be incorporat buildings where areas or where	the public
	and be considered in individual approvals. Normal residential can be expected to provide a NLR of 20 dB, thus, the reduction are often stated as 5,10 or 15 dB over standard construction assume mechanical ventilation and closed windows year ro		ction requirements ction and normally r round. However.	(4)	Measures to and constru	iction of porti	ons of these t	t be incorporat buildings where areas or where	the publi
	(2)	the use of NLR criteria will not eliminate outdoor noise Measures to achieve NLR of 25 dB must be incorporate	d into the design	(5)		mpatible prov 1.	ided that spec	ial sound reinfo	proement
		and construction of portions of these buildings where the		(6)	Residential	buildings requ	ire an NLR of	25.	
		office areas, noise sensitive areas or where the normal							
		office areas, noise sensitive areas or where the normal		(7)	Residential	buildings rece	ire an NLR of	30.	
		office areas, noise sensitive areas or where the normal		(7)		buildings requ buildings not		30.	



# **Airport Overview**

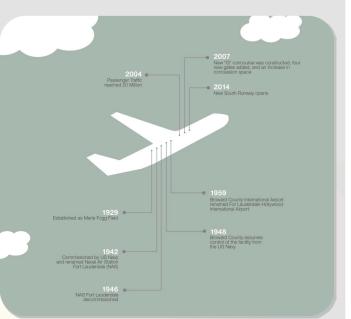


### **FLL Overview**



### **FLL Overview**

- FLL is 21st in the U.S. in total passenger traffic and 13th in domestic origin and destination passengers
- Each day an average of 80,000 travelers pass through FLL
- The new South Runway opened in September 2014
- Nonstop flights to over 100 U.S. and international cities
- 139,920 total jobs (direct, indirect, and induced)





### **Data Collection - 2016 Operational Information**

Date	Air Carrier	Air Taxi	General Aviation	Military	Total
January 2016	19,945	2,849	3,377	39	26,210
February 2016	19,026	2,711	3,188	49	24,974
March 2016	21,120	3,343	3,948	55	28,466
April 2016	18,871	3,203	3,334	52	25,460
May 2016	17,807	3,031	2,884	106	23,828
June 2016	17,461	2,704	2,672	47	22,884
July 2016	17,853	2,818	2,781	42	23,494
August 2016	17,382	2,586	2,551	73	22,592
September 2016	15,224	2,203	2,267	55	19,749
October 2016	15,498	2,182	2,622	45	20,347
November 2016	18,378	2,599	3,450	50	24,477
December 2016	21,455	2,832	3,437	34	27,758
Total	220,020	33,061	36,511	647	290,239

#### **Annual Aircraft Operations**

Source: FAA Air Traffic Activity Data System (ATADS), 2016.

#### **Aircraft Activity Forecast**

FAA Forecast Approval:

 FAA approved use of Master Plan Update (MPU) Accelerated Baseline Forecast for the FLL 14 CFR Part 150 Study

Fiscal Year	FAA TAF	MPU Accelerated Baseline Forecasts
2017	304,590	329,300
2018	311,559	335,000
2023	343,194	364,765

Sources: FAA, Terminal Area Forecasts, 2017, Ricondo & Associates, Inc., 2016



ORLANDO AIRPORTS DISTRICT OFFICE 5950 Hazeltine National Drive Suite 400 Orlando, FL 32822 Phone: (407) 812-6331 Fax: (407) 812-6978

April 10, 2017

Mr. William Castillo Airport Planning Manager Broward County Aviation Department 2200 SW 45<sup>th</sup> Street, Suite 101 Dania Beach, Florida 33312

Dear Mr. Castillo:

RE: Fort Lauderdale-Hollywood International Airport, Fort Lauderdale, FL Approval of Forecast for use in the 14 CFR Part 150 Study

This letter responds to your request for approval to use the Accelerated Baseline Forecasts for the purposes of the 14 Code of Federal Regulations (CFR) Part 150 Study for the Fort Lauderdale-Hollywood International Airport (FLL).

On January 13, 2017, the Federal Aviation Administration (FAA) approved the Baseline Forecast for FLL and accepted the Accelerated Baseline Forecast prepared in the Master Plan Update for sensitivity purposes and for the purpose of establishing facility requirements.

The FAA notes that the Accelerated Baseline Forecast varies less than 10 percent in the 5 year period and 15 percent in the 10 year period from the FAA's 2016 Terminal Area Forecast (TAF) published in January, 2017.

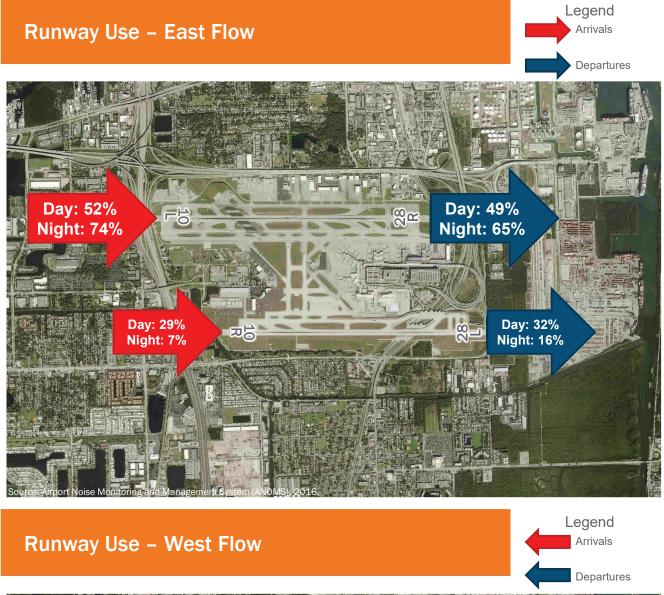
The FAA has determined that the Accelerated Baseline Forecast is consistent with the FAA's most recent TAF for FLL, and therefore, we approve the use of the Accelerated Baseline Forecast for the ongoing FLL Part 150 Study.

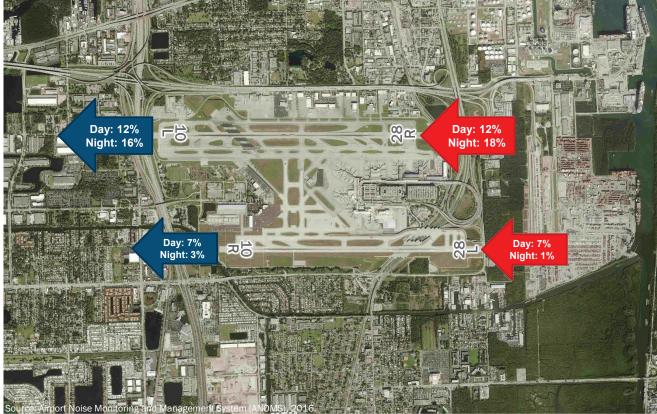
If you have any questions, please feel free to contact me at (407) 812-6331, ext. 130.

Sincerely, Alat Dage 1

Alian M. Nagy FAA Orlando ADO Environmental Program Specialist







#### Daytime and Nighttime Operations

Operation Type	Day	Night	Grand Total
Arrivals	84%	16%	100%
Departures	90%	10%	100%
Grand Total	87%	13%	100%

Source: Airport Noise Monitoring and Management System (ANOMS), 2016.

Runway Usage							
Operation Type	Runway	Day	Night	<b>Grand Total</b>			
	North Runway						
	10L	52%	74%	55%			
	28R	12%	18%	13%			
Arrivala	Total	64%	92%	68%			
Arrivals	South Runway						
	10R	29%	7%	26%			
	28L	7%	1%	6%			
	Total	36%	8%	32%			
	North Runway						
	10L	49%	65%	51%			
	28R	12%	16%	13%			
Doporturoo	Total	61%	81%	64%			
Departures	South Runway						
	10R	32%	16%	30%			
	28L	7%	3%	6%			
	Total	39%	19%	36%			





XO

## **Public Outreach Plan Development and Initial Workshops**

# **Public Outreach**

- Initial Coordination with Nearby Jurisdictions
  - 8 meetings to present project and solicit TC members
- Initial Kickoff Public Workshops
  - 5 informal workshops over 4-5 consecutive days
- NEM Public Workshop
  - Single large venue informal workshop
- Newsletter (6)
- NCP Public Workshop/Hearing
  - Single large venue informal workshop followed by formal hearing



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# **Study Website**

# Project Website - www.fllpart150.com

- Project information
- Notification of upcoming meetings
- Comment mechanism
- Links to other websites



# **Technical Committee**



### **TC Members**

- BCAD
- ANAC
- Southwest Airlines
- Delta Airlines
- JetBlue
- Spirit Airlines
- FedEx\*
- UPS
- NBAA
- Greater Fort Lauderdale Chamber of Commerce
- Greater Hollywood Chamber of Commerce
- Greater Dania Beach Chamber of Commerce
- Greater Fort Lauderdale Alliance
   Economic Development Agency
- Broward Workshop

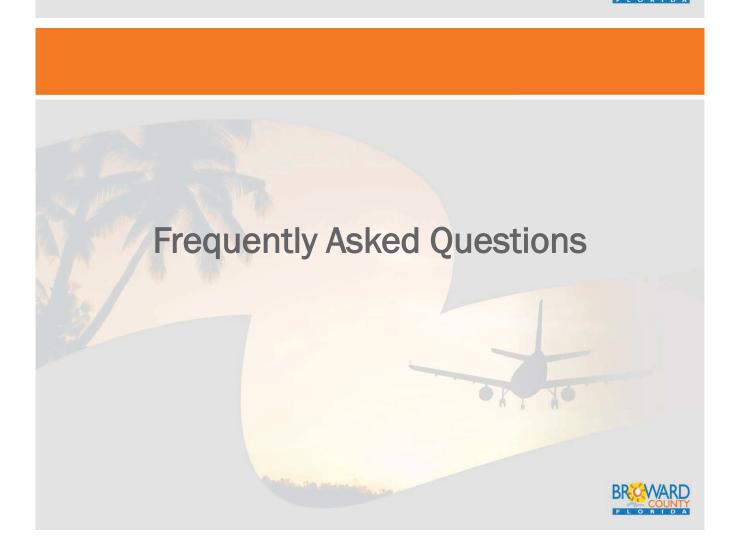
- City of Dania Beach
- City of Fort Lauderdale
- City of Hollywood
- Town of Davie
- City of Plantation
- City of Cooper City
- Town of Southwest Ranches
- City of Weston
- Broward County Planning and Development Management Division\*
- Broward County School Board
- FAA Orlando Airports District Office
- Miami Air Traffic Management/TRACON
- FLL Airport Traffic Control Tower
- South Florida Flight Standards Division (FSDO)

\*Participation in the Technical Committee not yet confirmed.



#### **Purpose and Objectives of the TC**

- TC members represent the interests of their organization and/or constituents
- The TC's role is to support the FLL Part 150 Study
  - Review study assumptions
  - Provide technical feedback within the context of the Part 150 Study (noise exposure maps and noise compatibility program)
  - TC members are encouraged to express their opinions and expected to respect the range of opinions expressed by their fellow TC members
- TC members are also expected to advise their organization and/or constituents of the TC's discussions
- BCAD will respect and consider the TC's technical input, but retains responsibility for, and decision making authority on, the FLL Part 150 Study
- TC meetings will be open to the public, subject to space availability



#### Part 150 Overview - FAQs

# **Frequently Asked Questions**

- Will the study "fix" all the noise issues around the airport?
  - No, overflights of residential areas are unavoidable and sensitivity to noise varies by person
- What type of noise monitoring will be conducted as part of the study?
  - None, all analysis is modeling based which allows consistency, prediction of noise levels where there are no monitors and evaluation of future conditions
- Will the Study address concerns about safety, soot, or other concerns related to aircraft operation?
  - The Part 150 process focusses exclusively on noise and land use compatibility

# Additional Frequently Asked Questions are available on www.fllpart150.com/faq



A TO

# **Project Schedule**



### **Preliminary Study Schedule**

#### Noise Exposure Maps

- Data Collection
- Public Outreach
- Noise Modeling
- NEM Report/FAA Acceptance

#### Noise Compatibility Program

- Alternatives Analysis
- NCP Report
- Public Hearing
- FAA 180 Day Review/ROA





### **Future Meetings**

#### **Technical Committee**

- TC Meeting #3 (Tentative)
- TC Meeting #4 (Tentative)

#### **Public Workshops**

Overview of Part 150 Process

November 2017

January/February 2018

TBD

NO

TC and Public Workshop materials will be available on the project website immediately following each meeting www.fllpart150.com



