# **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



## **Goals and Objectives**

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

#### FLL's Part 150 Efforts Span 3 Decades



BRCWARD COUNTY

3

### **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
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- 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**

## Noise Exposure Map Report (NEM)

- Develop a Comprehensive Database of Current Conditions
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- Local Jurisdictions/Agencies
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- Public



## **Years of Analysis**

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- Base year and at future year which is at least 5 years into the future
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- Year of submittal must be consistent with base year
  - Existing Condition: 2017
  - Future Condition: 2022
- Existing Condition based on recent 12 months of operational data applied to 2017 projected activity level

BROWARD

7

## **Operational Data Collection**

# Model inputs (MPU Forecast, ANOMS, NCDC)

- Detailed fleet mix
- Time of day
- 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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## Purpose and Objectives of the TAC

- Represent the interests of their organization and/or constituents
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  - Forum for experts to review study documents
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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
- Community representatives
- Governmental agencies
- Local planning agencies

## 8 Full TAC Meetings

- Operational Procedure Working Group (3 meetings/3 calls)
- Land Use Technical Working Group (2 meetings/3 calls)

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## **Study Coordination Committee**

# Purpose and Objectives of the Part 150 Study Coordination Committee

- 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



<sup>\*</sup> One Airport Noise Abatement Committee (ANAC) representative shall be appointed by ANAC members to represent ANAC at the Part 150 Study TAC meetings. The ANAC representative will be responsible for reporting back to the ANAC.

## **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



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#### **Schedule**

## **Preliminary Part 150 Schedule**

### **Noise Exposure Maps**

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

Summer-Winter 2016

Late 2016/Early 2017

Spring 2017

Summer 2017- Spring 2018

#### **Noise Compatibility Program**

- Alternatives Analysis
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Winter 2017 -Summer 2018

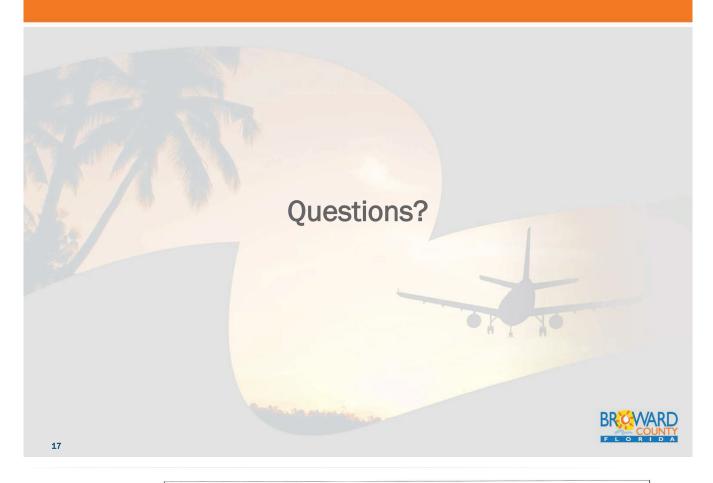
Summer-Fall 2018

Winter 2018/2019

Summer-Fall 2019



# 14 CFR Part 150 Overview





Meeting PL	Part	Broward C	County Aviation	n Departm	ent – Airport Deve	Holly wood
Date/Time:	10/2	5/2016	_ Location:	BCAN	Conf Run	28

	Sign In Sheet -	- Please print clearly		
Name and Title	Company	Work Phone #	Cell Phone #	Email Address
Winston Connicle	BCAD	(954)359-6181		Warnidelbrown Dry
William CASTILLO	BCAD	9543592291		WCASTULOBRUMMS . SAR
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Lorie Mertens-Black	BCAD	9-359 6/03 9/921-3599	(mediens Halywood)	Im-b@hollywoodlas
MICHAUR ARNOW	ESA	407-312-1294		marnoll@esqssaccan
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Meeting	CiTy	J DAMA	vard County Aviatio	n Departm	ent – Airp	oort Dev	velopment	uPdATe	
Date/Time	: 10 24	2016	Location:	BEAN	Casí	Run	28		

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MICHAET PACITIS	BOAD	9-959-6103	_	mppacitto browned
WINSTA CAMPILLE	BCAS	954-359-6181		acquaicle elorswand. or of
MICHAN ARMOUD	ETA	407-312-1294	-	magnoll@esqssa.com
William Castillo	BCA-D	9843592291		WCASTING BEON 400 286-
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Name and Title	Company	Work Phone #	Cell Phone #	Email Address	
Winston B. Connicle	BCAL	(954)359-6131		wearnide e broward. acp	
Danny A. Holmes	Plantation- PZED	954-797-200	}	donalmes e Plantation.org	
Brett Butler Enginee-	Plantation- Eng	9-797-2781		butter colombations	
Diane Vetric Bandekovic	Plantation- Admin.	9-197-2221		dbenderovice plantation	
MICHARD PACITO	3040	9-359-6103		Mappaci How broward. or	
William CASTINO	BEAD	9143892291		WCASTINGBLOWNS-DEW	
<u>-</u>					





Meeting_	FLL	Pael	Broward Coun	ty Aviation Depa んんし いて	rtment - 1	Airport Developme	ent _ nues Ranches
Date/Time	10/24	2016-	3pm	ocation:	nwest	PARCHER	Town HALL

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MICHARD PACITIO	BIAD	9-559-6103	_	mapacitho bowardor	
Mother Pairro	BCAD	(954) 359-6181		wegnicle e brown to	
William CASTILLO	BCAD	9543562291		Westine Blowner. on L	
DOUG MCKRY	TISWA	954-434-0008			
ANDY BERNS	To SWA	1'		DHCKAY @ SURANCHES. OR AGENISO SWRANCHES. OX	
MICHAOR ARWOLD	ESA	467-312-1294		marrolde csassociam	
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John Flint	Weston	954.385.Coc		JFINTO Vestoutz. ou



# 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



## 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
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- 9. Preliminary Schedule



## **Goals and Objectives**

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

#### FLL's Part 150 Efforts Span 3 Decades



BRCWARD COUNTY

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BROWARD

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Aviation Environmental Design Tool (AEDT) Version 2C



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



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# Project Website - www.fllpart150.com

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- Project information
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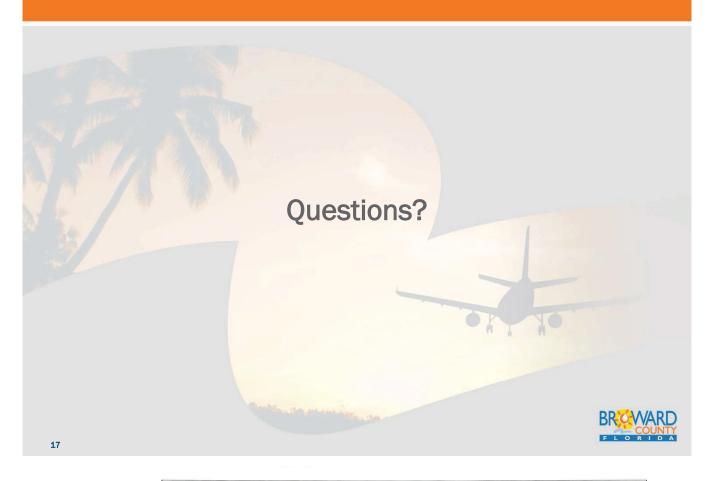
Summer-Fall 2018

Winter 2018/2019

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## 14 CFR Part 150 Overview





Meeting FLL Part 150 you want of City of Fort Laubedale

Date/Time: 11/1/2016 - 8 Am Location: City of Fort Laubedale - City HAI

	Sign In Sheet -	Please print clearly		
Name and Title	Company	Work Phone #	Cell Phone #	Email Address
Winson Carnicle	AUIATION - P/D	954.359-6181		wannide (broward ang
MICHAOL ARNOLD	ESA	407-312-1294		marrold@esqssoc,con
Diana Alarcon	CFTL	(9)828-3793	(9)557-7963	dalarcon@fort audado go
JULIE LEONARD	FORTLANS	828-4999	9 401-3041	TIEDVALO (O FOLTALO GOV
CHRIS LAGURDOOM	FTL	(9)828-5758	(9) 952.5889	claguables and de rable gov
Lee Feldman	CFL	954-828-5959		Ifeldman C fortlanderdale sou
Rufus A. James	CFL	9-828-4968		rjames of out laworde . gov
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Meeting FLL	PATI	Broward County Aviation Department - Airport Development	
Date/Time: 11	2016-	10 m Location: City of Cooper City - City HAND	

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Name and Title	Company	Work Phone #	Cell Phone #	Email Address	
Winston Connicle	BCAD PGS	954-359-6131		examile e browns. or p	
Greg Russ	MAYOR Caper City	954-434-4360		MAYOR_RUSS @ (aspecting PZ. De	
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Name and Title	Company	Work Phone #	Cell Phone #	Email Address
Winston CAnnicle	BCMS PID	954-359-6131		w cannicle @ browgool. ong
Mitch Taylor Intergor Affairs Manager	Davie	954-797-1190		mtaylor adare-fl. gov
Phillip Holste	Davic	954-797-1041		oholste@davic-fl.40v
	Davie	954 797-1034		pholste@davic-fl.gov Lenoko Dove-Esgar ipaulo davie-A. gov
Richard Lemack Mayor Judy PAUL	TOF DAVIE	954797 1036		paulo davie - A. gov
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			The state of the s	



# ANAC Briefing September 19, 2016









# 14 CFR PART 150 NOISE AND LAND USE COMPATIBILITY STUDY

ANAC Briefing September 19, 2016



## Agenda

- 1. Goals and Objectives
- 2. Study Elements
- 3. Years of Analysis
- 4. Master Plan Forecast
- 5. Data Collection
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- Existing Condition based on recent 12 months of operational data applied to 2017 projected activity level

BROWARD COUNTY F L O R I D A

7

## **Master Plan Forecast**

# 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)

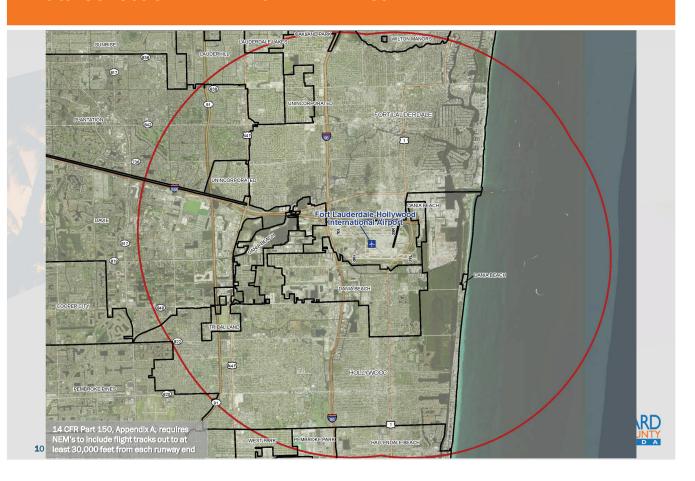
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Aviation Environmental Design Tool (AEDT) Version 2C



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



#### **Public Website**

Project Website - www.fllpart150.com

Consistent with BCAD Standards

## **Key Elements**

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- Comment mechanism
- Links to other websites





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#### **Public Outreach**

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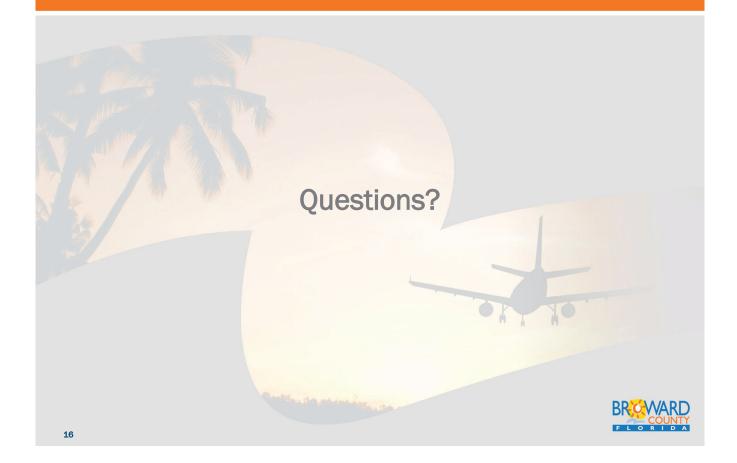
Winter 2018/2019

Summer-Fall 2019



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#### 14 CFR Part 150 Overview



# Study Coordination Committee Resolution September 2016

8.



**Broward County Commission Regular Meeting** 

09/15/2016

Director's Name: Mark Gale

Department: Aviation Division: Planning

Information

Meeting Date:

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

Print Agenda Item Page 2 of 2

Fiscal Impact

Fiscal Impact/Cost Summary:

There is no fiscal impact associated with this action.

**Attachments** 

Exhibit 1 - Resolution

**RESOLUTION NO. 2016-**1 RESOLUTION OF THE BOARD OF COUNTY 2 COMMISSIONERS OF BROWARD COUNTY. FLORIDA. ESTABLISHING A FEDERAL AVIATION REGULATION 3 PART 150 STUDY COORDINATION COMMITTEE FACILITATE DISSEMINATION OF INFORMATION FROM 4 PART 150 NOISE COMPATABILITY PROCESS: **PROVIDING FOR** APPOINTMENT 5 COMMITTEE MEMBERS; PROVIDING FOR MEETINGS: PROVIDING A SUNSET PROVISION, AND PROVIDING 6 FOR SEVERABILITY AND AN EFFECTIVE DATE. 7 8 WHEREAS, Broward County ("County") owns and operates Fort Lauderdale-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.

WHEREAS, the Part 150 Study will analyze existing and future Airport noise exposures, identify appropriate land uses surrounding the Airport, and recommend noise compatibility planning and programs consistent with Federal Aviation Administration (FAA) requirements and the Board's policy directives; and

WHEREAS, the Board desires to establish a Part 150 Study Coordination Committee in order to provide a centralized process to facilitate dissemination and sharing of information that is developed during the Part 150 Study, NOW, THEREFORE.

BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF BROWARD COUNTY, FLORIDA:

#### Section 1. PART 150 STUDY COORDINATION COMMITTEE.

- (a) <u>Creation and Purpose of Committee</u>. There is hereby created a committee to be known as the "Part 150 Study Coordination Committee" ("Committee"). The Committee's purpose is to facilitate dissemination and sharing of information that is developed during the Part 150 Study process on a timely basis to the political subdivisions of the respective Committee members.
- (b) <u>Committee Meetings</u>. The Aviation Department will brief and provide information to the Committee members regarding the progress of the Part 150 Study. Each Committee member will be expected to brief and distribute the received information to the governing body of such Committee member's political subdivision.

- (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.
- (d) <u>Membership</u>. The Committee will consist of nine (9) members. The chair of the Committee shall be appointed by the Board of County Commissioners. The remainder of the Committee will be made up of a representative and an alternate representative from each of the following political subdivisions:
  - (1) City of Fort Lauderdale
  - (2) City of Hollywood
  - (3) City of Dania Beach
  - (4) Town of Davie
  - (5) City of Plantation
  - (6) Town of Southwest Ranches
  - (7) City of Weston
  - (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) Removal of Members. 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.
- (f) <u>Organizational Issues</u>. At any time after the initial meeting of the Committee, the Committee may adopt rules of procedure deemed necessary for the conduct of its business.
- (g) <u>Expenses and Staff Support</u>. Members of the Committee shall serve without compensation. The Director of the Aviation Department may, on a discretionary basis, provide staffing to assist the Committee in the conduct of its business.
  - (h) Meetings. The Committee shall meet as needed.

# 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.

#### Section 3. SEVERABILITY.

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.

Section 4. <u>EFFECTIVE DATE</u> .
This Resolution shall become effective upon adoption.
ADOPTED this day of, 2016.
Approved as to form and logal sufficiency
Approved as to form and legal sufficiency: Joni Armstrong Coffey, County Attorney
By <u>/s/ Alexander J. Williams</u> 09/02/16
Alexander J. Williams (date) Assistant County Attorney
AJW/ch 09/02/16
150 Comm. Reso 16-008.00
#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



#### **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 <u>voluntary</u>, 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

### FLL's Part 150 Efforts Span 3 Decades





# 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



# 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)

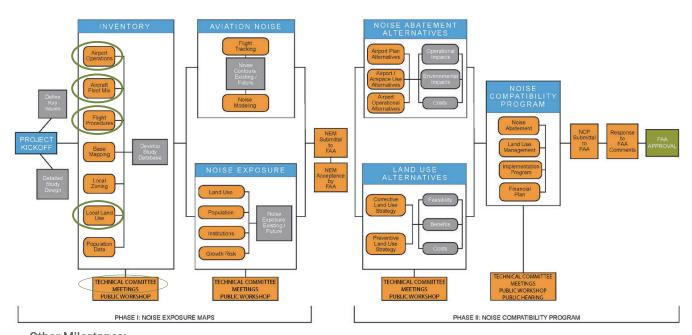
- Identify and evaluate noise abatement alternatives
- Identify and evaluate compatible land use alternatives
- Identify and evaluate administrative measures
- Prepare and submit Noise Compatibility Program (NCP) Report

# Stakeholder Outreach Program

- Local Jurisdictions/Agencies
- FAA
- Public



# 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

# Noise, Modeling and Compatibility



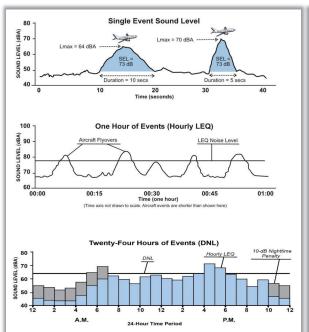
#### **Introduction to Aircraft Noise - DNL**

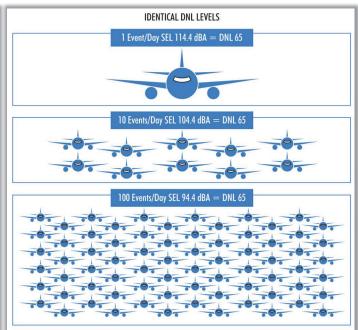
# Day-Night Average Sound Level (DNL)

- 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



Aviation Environmental Design Tool (AEDT)
Version 2C



# 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



# Part 150 Study Overview - Land Use Compatibility

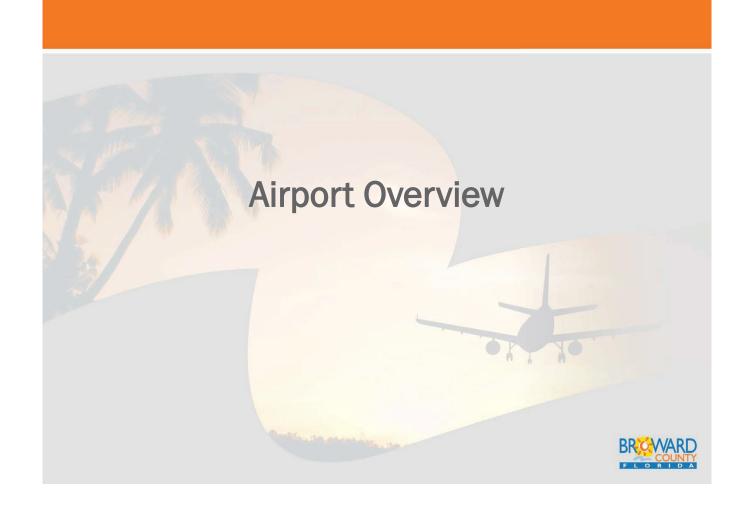
# Land Use Compatibility

- 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					
		Below 65	65-70	70-75	75-80	80-85	Over 85
Residential							
Residential, other than mobile homes and							
transient lodgings		Y	N(1)	N(1)	N	N	N
Mobile home parks		Y	N	N	N	N	N
Transient lodgings		Y	N(1)	N(1)	N(1)	N	N
Public Use							
Schools		Y	N(1)1	N(1)	N	N	N
Hospitals and nursing homes		Ý	25	30	N	N	N
Churches, auditoriums and concert halls		Y	25	30	N	N	N
Governmental services		Y	Y	25	30	N	N
Transportation		Y	Y	Y(2)	Y(3)	Y(4)	Y(4)
Parking		Y	Y	Y(2)	Y(3)	Y(4)	N
-							
Commercial Use Offices, business and professional		Y	Y	OF.	200	100	
		4	Υ.	25	30	N	N
Wholesale and retail-building materials,							
hardware and farm equipment		Y	Y	Y(2)	Y(3)	Y(4)	N
Retail trade-general		Y	Y	25	30	N	N
Jtilities		Y	Y	Y(2)	Y(3)	Y(4)	N
Communication		Y	Υ	25	30	N	N
Manufacturing and Production							
Manufacturing, general		Y	Y	Y(2)	Y(3)	Y(4)	N
Photographic and optical		Y	Y	25	30	N	N
Agriculture (except livestock) and forestry		Y	Y(6)	Y(7)	Y(8)	Y(8)	Y(8)
Livestock farming and breeding		Y	Y(6)	Y(7)	N	N	N
Mining and fishing resource production and extr	action	Y	Y	Y	Y	Y	Y
Recreational							
		Y	Y(5)	Y(5)		101	N
Outdoor sports arenas and spectator sports					N	N	
Outdoor music shells, amphitheaters		Y	N	N	N	N	N
Nature exhibits and zoos		Y	Y	N	N	N	N
Amusements, parks, resorts and camps		Y	Y	Y	N	N	N
Golf courses, riding stables and water recreation	n	Y	Y	25	30	N	N
Numbers in parentheses refer to notes.							
The designations contained in this table do not	constitute a Federal determ	ination that any us	e of land cou	ored by the r	vodrom ie or	centable or	inaccentabl
*The designations contained in this table do not under Federal, State or local law. The responsion and specific noise contours rests with the local uses for those determined to be appropriate by	ity for determining the acce authorities. FAA determina ocal authorities in response	ptable and permiss tions under Part 1 e to locally determ	sible land use 50 are not in ined needs a	s and the rel tended to su nd values in	ationship be ubstitute fed achieving no	tween specification is a compatible compatib	ic propertie mined land ble land use:
Key to Table 1							
SLUCM Standard Land Use Coding Manui (Yes) Land Use and related structures (No) Land Use and related structures Ncise Level Reduction (outdoor t	compatible without restricti are not compatible and shou	ald be prohibited.	of noise att	enuation int	n the desidn	and	
construction of the structure. 25, 30 or 35 Land Use and related structures design and construction of struc	generally compatible; measi						



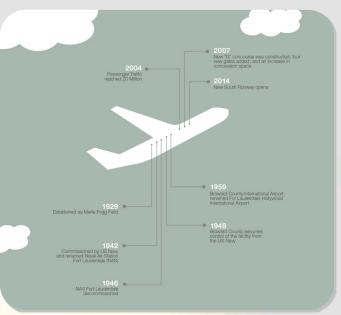


# **FLL Overview**



# **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**

#### **Annual Aircraft Operations**

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

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) 812-6378

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.

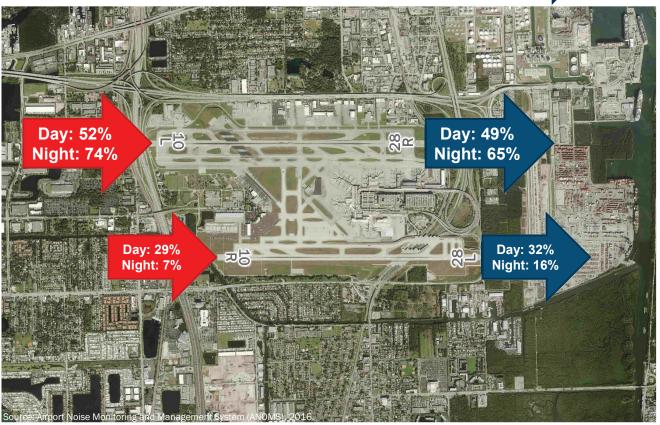
Sincerely,

Allan M. Nagy
FAA Orlando ADO Environmental Program Specialist



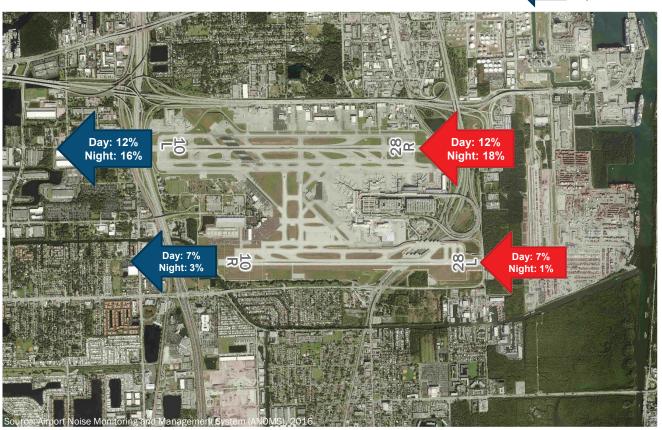
# **Runway Use – East Flow**





# **Runway Use – West Flow**





# Runway Use

# **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

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



# **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



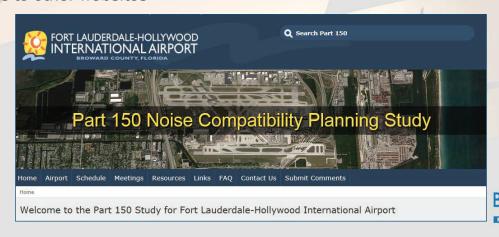
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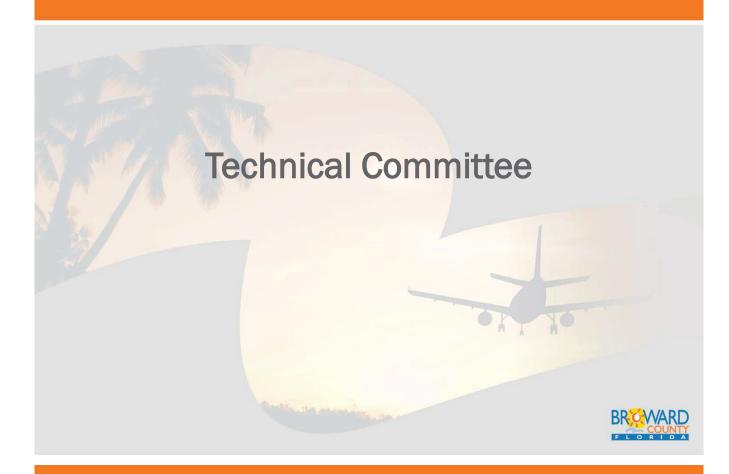
# BROWARD

# **Study Website**

# Project Website - www.fllpart150.com

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

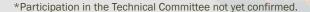




#### **TC Members**

- 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)





# **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



# **Frequently Asked Questions**



# 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



# Project Schedule BREWARD

# **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

Summer 2016-Winter 2017

Fall 2017

Fall-Winter 2017

Summer-Winter 2018

Summer-Winter 2018

Spring-Summer 2019

Summer 2019

Winter 2019-Summer 2020



# **Future Meetings**

#### **Technical Committee**

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

November 2017

January/February 2018

# **Public Workshops**

Overview of Part 150 Process

**TBD** 

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



