APPENDIX H Technical Committee Meetings

This Appendix includes details of Technical Committee (TC) meetings associated with the Fort Lauderdale-Hollywood International Airport Part 150 Study. Documentation in this Appendix includes copies of TAC meeting notices, agendas, attendance sheets, presentation materials, and summaries.

- Appendix H-1 TC Meeting #1 May 26, 2017
 - Meeting Notice and Attendance Roster
 - o Materials Presented at Meeting
 - Meeting Summary
- Appendix H-2 TC Meeting #2 August 23, 2017
 - Meeting Notice and Attendance Roster
 - o Materials Presented at Meeting
 - Meeting Summary
- Appendix H-3 TC Meeting #3 March 7, 2018
 - o Meeting Notice and Attendance Roster
 - o Materials Presented at Meeting
 - Meeting Summary
- Appendix H-4 TC Meeting #4 October 25, 2018
 - o Meeting Notice and Attendance Roster
 - Materials Presented at Meeting
 - Meeting Summary
- Appendix H-5 TC Meeting #5 January 16, 2019
 - Meeting Notice and Attendance Roster
 - Materials Presented at Meeting
 - Meeting Summary

Appendix H-1 Technical Committee Meeting #1 May 26, 2017

Technical Committee

Meeting #1

Meeting Notice and

Attendance Roster



AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport 2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

NOTICE OF TECHNICAL COMMITTEE MEETING 14 CODE OF FEDERAL REGULATION (CFR) PART 150 AIRPORT NOISE AND LAND USE COMPATIBILITY STUDY FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT

The Broward County Aviation Department (BCAD) formed a Technical Committee (TC) to support the Fort Lauderdale-Hollywood International Airport (FLL) 14 Code of Federal Regulations (CFR) Part 150 Study. TC membership includes appointed representation from all affected airport stakeholders (experts in land use, airport operations, air traffic control, etc.).

FLL Technical Committee Meeting

Date: Friday, May 26, 2017 Time: 10:00AM - 12:00PM

Location: Aviation | Maintenance Division; 3400 SW 2nd Avenue; Fort Lauderdale, FL 33315

The Part 150 Study will quantify existing and future aircraft noise exposure levels, assess land use impacts according to federal standards, and seek ways to minimize those impacts to the greatest extent practical within 14 CFR Part 150 guidelines. Space for the TC meetings will be limited. However, they are open to the public, provided space is available. In order to promote efficient, balanced and constructive interaction among the TC members, discussions will be limited to TC members. There will be no public comment period. The public can provide comments at the upcoming public workshops and through the study website at www.fllpart150.com.



AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport 2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

MEETING LOCATION CHANGE

NOTICE OF TECHNICAL COMMITTEE MEETING 14 CODE OF FEDERAL REGULATION (CFR) PART 150 AIRPORT NOISE AND LAND USE COMPATIBILITY STUDY FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT

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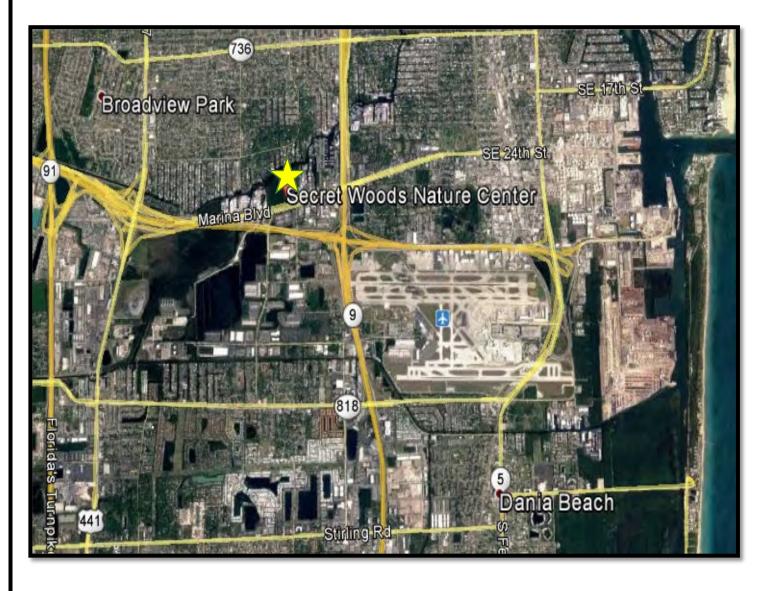
FLL Technical Committee Meeting

Date: Friday, May 26, 2017 Time: 10:00AM - 12:00PM Location: Secret Woods Nature Center – Julia Hall; 2701 W. SR 84; Dania Beach, FL 33312

The Part 150 Study will quantify existing and future aircraft noise exposure levels, assess land use impacts according to federal standards, and seek ways to minimize those impacts to the greatest extent practical within 14 CFR Part 150 guidelines. Space for the TC meetings will be limited. However, they are open to the public, provided space is available. In order to promote efficient, balanced and constructive interaction among the TC members, discussions will be limited to TC members. There will be no public comment period. The public can provide comments at the upcoming public workshops and through the study website at www.fllpart150.com.

Secret Woods Nature Center

Julia Hall 2701 W. SR 84 Dania Beach, FL 33312



From the East: Take FL-84 / Marina Mile Blvd. and turn right into the Secret Woods Nature Center.

From the West: Take FL-84 / Marina Mile Blvd. and make a U-turn after SW 26th Terrace. Turn right into the Secret Woods Nature Center.

From the North via I-95: Follow I-95 to South to Exit 25, FL-84 / Marina Mile Blvd. Head west on FL-84 / Marina Mile Blvd. and turn right into the Secret Woods Nature Center.

From the South via I-95: Follow I-95 North to Exit 25, FL-84 / Marina Mile Blvd. Head west on FL-84 / Marina Mile Blvd. and turn right into the Secret Woods Nature Center.

From the North via US-441: Follow US-441 South to FL-84 / Marina Mile Blvd. and make a U-turn after SW 26th Terrace. Turn right into the Secret Woods Nature Center.

From the South via US-441: Follow US-441 North to FL-84 / Marina Mile Blvd. and make a U-turn after SW 26th Terrace. Turn right into the Secret Woods Nature Center.



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee

Date / Time: Friday, May 26, 2017 10:00 AM - 12:00 PM

Location: Secret Wood Nature Center

First & Last Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Debra Van Valkenburgh (A)		ANAC			perhelion@hotmail.com	1 -1
Gary Luedtke		ANAC	954-966-8013		gluedtke@gmail.com	Lan Astres
Allan Siegel (A)	Public Informations Officer	Broward County Aviation Department	954-359-6978		Asiegel@broward.org	alling Lipped
Brad Ostendorf		Broward County Aviation Department	9-359 2395	\$	bosten Dorat (1)	in this
Gregory Meyer	Public Information Officer	Broward County Aviation Department - PIO	954-359-6116		GMeyer@broward.org	
John Pokryfke	Asst. Director of Operations, Aviation	Broward County Aviation Department - Airport Operations	954-359-6475		JPOKRYFKE@broward.org	
Michael Nonnemacher (A)	Acting Assistant Executive Director	Broward County Aviation Department - Airport Operations			mnonnemacher@broward.org	
Mike Pacitto (A)	Director of Planning	Broward County Aviation Department - Airport Manager's Office	954-560-0766		mpacitto@broward.org	MARKA
Tom Nazzaro	Airport Manager, Aviation	Broward County Aviation Department - Airport Business	954-359-6821	31	TNAZZARO@broward.org	no i pine o
Will Castillo (A)	Airport Planning Manager	Broward County Aviation Department - Airport Noise Office	954-359-2291		wcastillo@broward.org	much
Winston Cannicle	Noise & Environmental Officer	Broward County Aviation Department - Airport Noise Office	954-359-6181		WCANNICLE@broward.org	100
Chris Akagbosu	Director, Facility of Planning & Real Estate Dept.	Broward County School Board	754-321-2162		chris.akagbosu@browardschools.com	ACTON
Sam Roldo IN Kareen Boutros	Executive Director	Broward Workshop	954-462-9112		kareen@browardworkshop.com	
Matt Wood	Growth Management Director	City of Cooper City	954-434-4300		MWood@coopercityfl.org	Mulloc
Brad Kaine (A)		City of Dania Beach			bkaine@daniabeachfl.gov	
Marc LeFerrier		City of Dania Beach	954-924-6805 x3643		mlaferrier@ci.dania-beach.fl.us	100
Angelina Pluzhnyk Evans	Chief Civic Affairs Officer	City of Fort Lauderdale	561-715-9112 -C		lina@chyden.net	AS D
Edward Rebholz	Edward Rebholz	City of Fort Lauderdale	973-476-5609	÷	ed@edrebholz.com	20 Sector
Geoff Rames (A)	U. P. LAUD ISLES CINE DUPE. ABSac	City of Fort Lauderdale	957. 327. 9095		GRAMES, LICIA & GMAIL, CON	ele.
Lorie Mertens-Black		City of Hollywood	954-921-3599		Imertens-black@hollywoodfl.org	010 /20
Peter Dokuchitz	Principal Planner / City of Plantation	City of Plantation	954-797-2265		pdokuchitz@plantation.org	1.D.A



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee

Date / Time: Friday, May 26, 2017 10:00 AM - 12:00 PM

Location: Secret Wood Nature Center

First & Last Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
John R. Flint	City Manager / CEO	City of Weston	954-385-2000		jflint@westonfl.org	the
Julia Lundrigan	Delta Flight Ops	Delta Airlines	404-773-2882	6784271350	Julia.lundrigan@delta.com	hei Zn
Allan Nagy	Environmental Program Specialist	FAA - Orlando Airports District Office	407-812-6331 x130		Allan.Nagy@faa.gov	0 0
Mary Morrissey	Senior Manager	FedEx	954-359-7432		mmmorrissey@fedex.com	
Sid Cooley (A)		FLL Airport Traffic Control Tower	954-921-9200		sidney.cooley-jr@faa.gov	
Theodore (TJ) DelNegri	Tower Manager	FLL Airport Traffic Control Tower	954-921-9201		theodore.delnegri@faa.gov	OIN
Randie Shane	CEO/Executive Director	Greater Dania Beach Chamber of Commerce	954-926-2323		rshane@daniabeachchamber.org	ap
Bob Swindell	President and CEO	Greater Fort Lauderdale Alliance Economic Development Agency	954-524-3113		bswindell@gflalliance.org	
Dan Lindblade, CAE	CAE - President and CEO	Greater Fort Lauderdale Chamber of Commerce	954-462-4911		dan@ftlchamber.com	Alus
Anne Hotte	CEO/Executive Director	Greater Hollywood Chamber of Commerce	954-923-4000		anne@hollywoodchamber.org	
Jason Annunziata	Station Manager	JetBlue	954 233-4722	646912-2775	Jason.Annunziata@jetblue.com	AT.
Bob Hildebidle	Air Traffic Manager A	Miami Air Traffic Management/TRACON	305-869-5402	646912-2775 954-292-6515 208 378 685	Bob.Hildebidle@faa.gov	Ret III
Alex Gertson (A)	Director of Airports and Ground Infrastructure	NBAA		208 377 6684	gross QNBAL. 00	1 aller
Gregory Voos		NBAA				- A
Mark Hemmerle	Front Line Manager	South Florida Flight Standards Division (FSDO)	954-641-6015		Mark.W.Hemmerle@faa.gov	(MAY
Edwin Solley	Manager ATC Systems	Southwest Airlines	407-850-1563		Edwin.solley@wnco.com	Solorin Soll of
Michael Shiver	General Manager	Spirit Airlines	954-359-0933		michael.shiver@spirit.com	0000
Charles Taylor	Intergovernmental Affairs Manager	Town of Davie	954-797-1034		Charles_Taylor@davie-fl.gov	2
Phillip Holste (A)	Assistant Town Administration	Town of Davie			Phillip_Holste@davie-fl.gov	
Richard Lemack	Town Administrator	Town of Davie	954-797-1034		Richard_Lemack@davie-fl.gov	Kullen
John Eastman	John Eastman	Town of Southwest Ranches	954-465-8383		john426@bellsouth.net	1 martin



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee

Date / Time: Friday, May 26, 2017 10:00 AM - 12:00 PM

Location: Secret Wood Nature Center

First & Last Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Mark Modrich (A)	AA Pilot/Resident	Town of Southwest Ranches	954-540-4854	954-252-5040	MMODRICH @ AOL.COM	maria
Kevin Hoffman - Corporate Contact	Corporate Contact	UPS	502-329-3913		khoffmann@ups.com	0
SAM Robbin	CEO	NATIONAL JEts/Br	oward workshop	954 8682160	SAMROBOIW@N	atiowaljets. cour
Kevin Wu Ken Coutam, Je	Airport Manager Airport Planner	BCAD-0PS BCAD-PD	954 357.1216 954 354 1599	954. 279.4740	Kould brown org	p Kong



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee

Date / Time: Friday, May 26, 2017 10:00 AM - 12:00 PM

Location: Secret Wood Nature Center

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Public/Residents

Please Print Clearly

First & Last Name	Title	Company Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Richard Premijer				254-591-1741	RCP37e Juno. Con	Pale Ago
Michall CANTER	Planning	BCAD	359-2581		micarterebroward. Org	mult
Rufus A. Jame.	s Airport Manage	City of Fort Landered	,9-828-4968		r'james@ fort lauderde. gov	Selletz
Roy Liddicott	CAPT.	B50		ON File		Office :
Ros FURMAN	LT.	650	Ċ	on File		Till
Dave Reclasson	Sr. Director	KHIA		407-404-0755	Save rockersm & Kimley Aprix - Com	Dand D. Riter
bob Leonard	concened etiza			(954)2327141	Aconal bob @ att. not	M front
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GEOFE RAMES	V.P.	LAUP ISIES CINC Dupp dosoc	958.327.904	, ,	GRAMES, LI SIA POSLAIL, Con	A
Den Harley	Vice Cha, - DBAAC	Broward College		513-652-5140	dharley@broward.edu	ON .
Linda Armstrong	HDA - Pres - VHI Chairman Griffin Lade	0	847-757-1073		()	Sul and
DR. JUSTIA GRUIDICH		Pew Chantable Trust	3472057601	SAME	Windycity lindie O gmail.en justning C gmail.com	Apuble
Pave Reich			954.871.7363		reichd Dbellsourch. NCT	Dulk 1
ICHALIL NASSER	Predo 1	GBP Energy	103231833 2	703 23/8332	jumnusser @ yahoo. com	flutto

Page 1 of 3



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee

Date / Time: Friday, May 26, 2017 10:00 AM - 12:00 PM

Location: Secret Wood Nature Center

Public/Residents

Please Print Clearly

First & Last Name	Title	Company Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Liz Forpros			9542606419-	7	Liz FORDRE) (quail . con	Sandroy
Liz FORDRES FERE FORDRES			9542606419-		Liz FORDRED (gmail. con / FORDRED (GM MIL , COM	Kureny

Technical Committee

Meeting #1

Materials Presented at Meeting





AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport 2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

Meeting Agenda Technical Committee Meeting No. 1 14 CFR Part 150 Study Fort Lauderdale-Hollywood International Airport

May 26, 2017 – 10AM to 12PM EDT

- 1. Welcome and Introductions
- 2. Purpose and Objectives of the Technical Committee (TC)
- 3. Role of the TC Meeting Facilitator
- 4. TC Charter and Participation Agreement
- 5. Fort Lauderdale-Hollywood International Airport Overview
- 6. 14 CFR Part 150 Overview
- 7. Data Collection Process and Status
- 8. Future TC Meetings
- 9. Questions from TC Members
- 10. Adjourn



Agenda	
Introductions and Opening Remarks	
Technical Committee (TC)	
Purpose and Objectives of the Technical Committee	
Role of the TC Meeting Facilitator	
TC Charter and Participation Agreement	
Airport Overview	
Part 150 Study Overview	
Introduction to Aircraft Noise, Modeling, and Compatibility	
Initial Data Collection	
Project Schedule	_
TC Questions	
	BROWARD



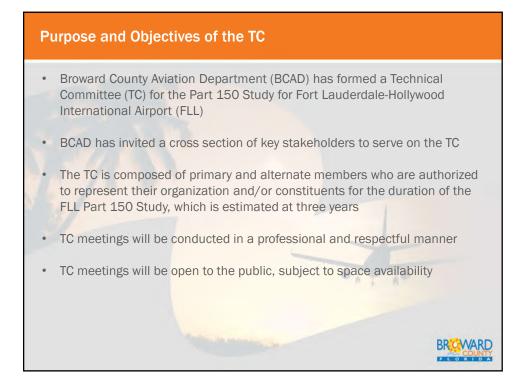


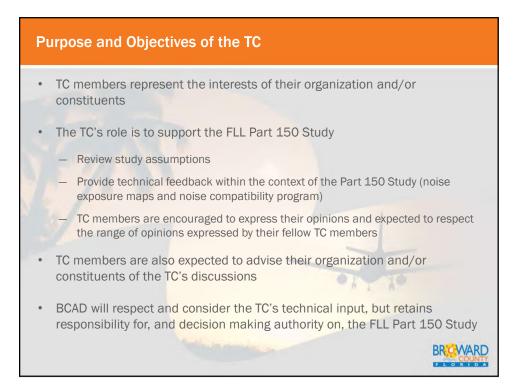


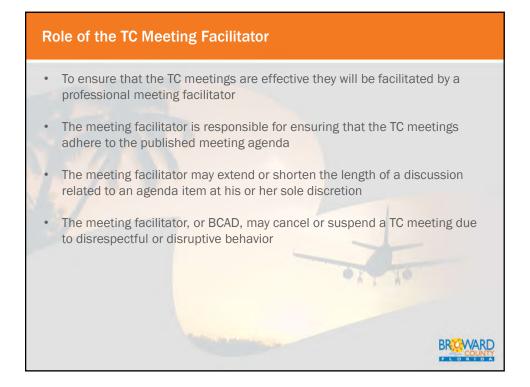


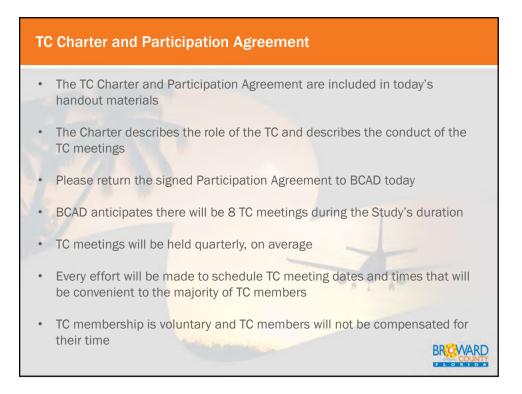


TC Members	
 BCAD ANAC Southwest Airlines Delta Airlines JetBlue* Spirit Airlines FedEx* UPS* NBAA Greater Fort Lauderdale Chamber of Commerce Greater Hollywood Chamber of Commerce Greater Dania Beach Chamber of Commerce Greater Fort Lauderdale Alliance Economic Development Agency Broward Workshop 	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

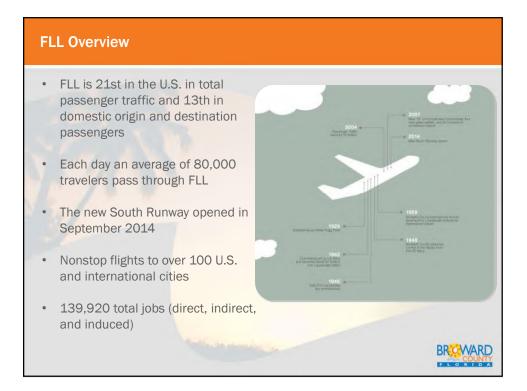




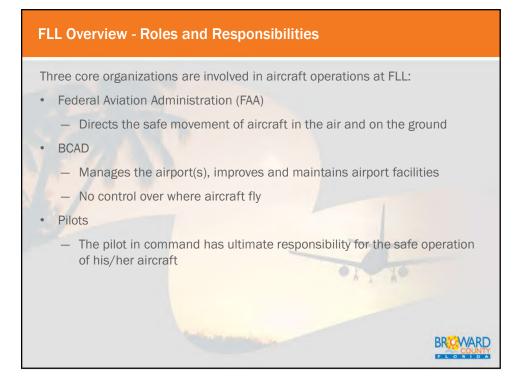


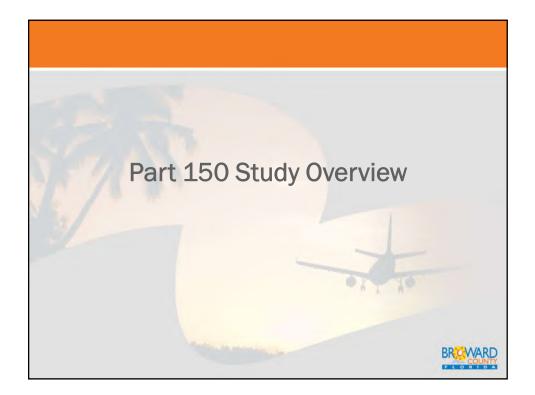


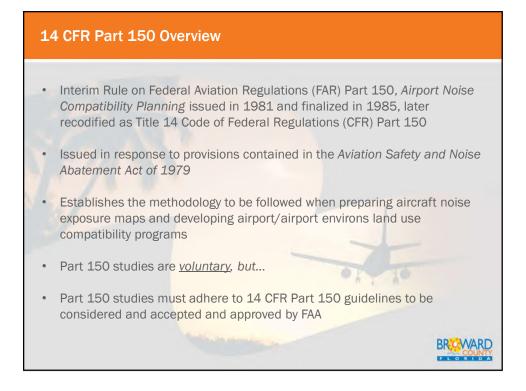


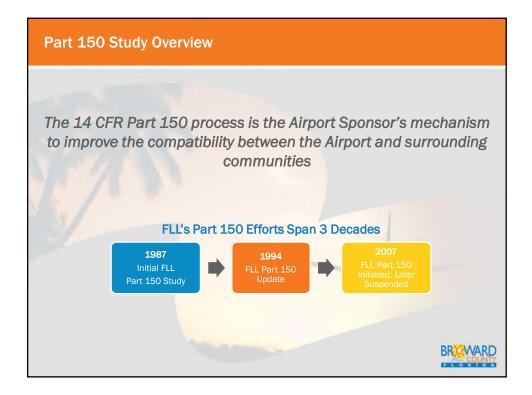


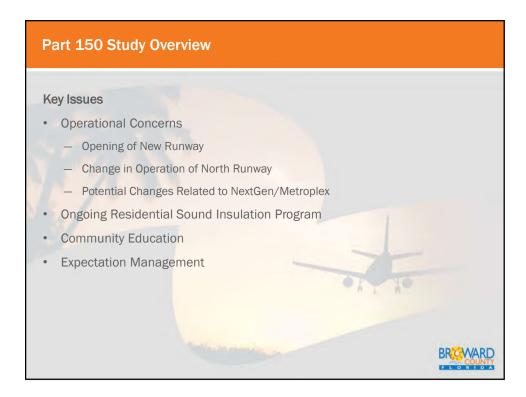












Part 150 Study Overview

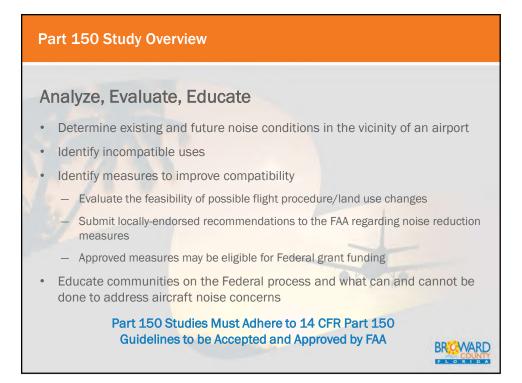
Regulatory Framework

- 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.

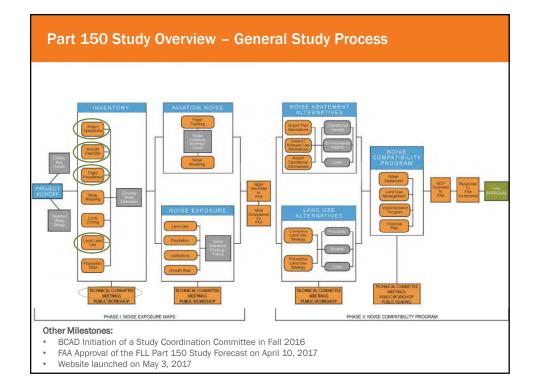
Who Can Regulate Airport Noise?

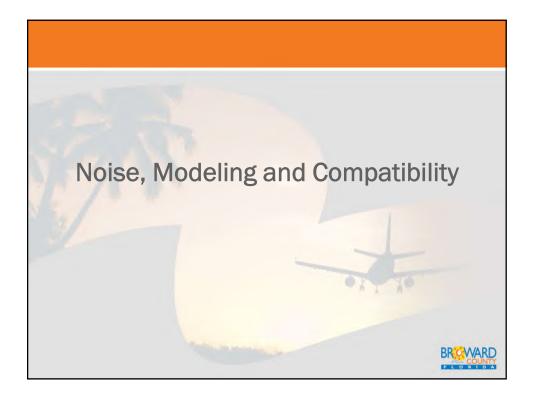
- Federal Aviation Administration: (1) Controls aircraft while in flight; (2) Responsible for controlling noise at its source (i.e., aircraft engines); (3) Certifies aircraft and pilots.
- Airport Proprietors/BCAD: (1) Very limited authority to adopt local restrictions; (2) Responsible for capital improvement 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.

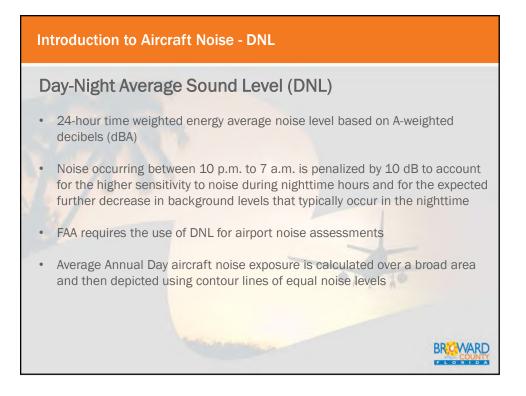
FEDERAL LAW PREEMPTS STATE AND LOCAL REGULATIONS

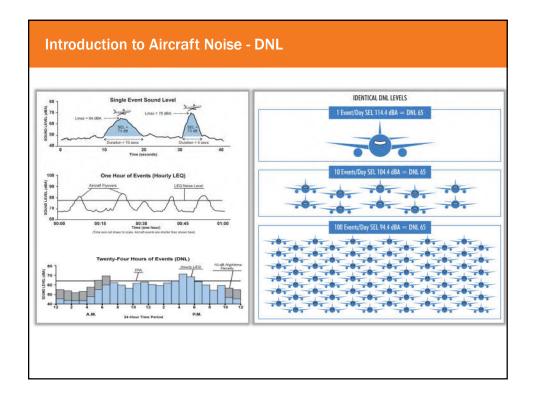


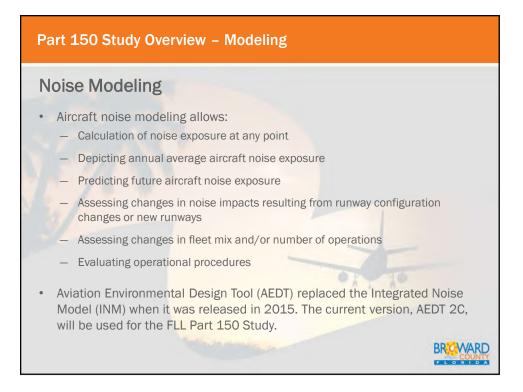


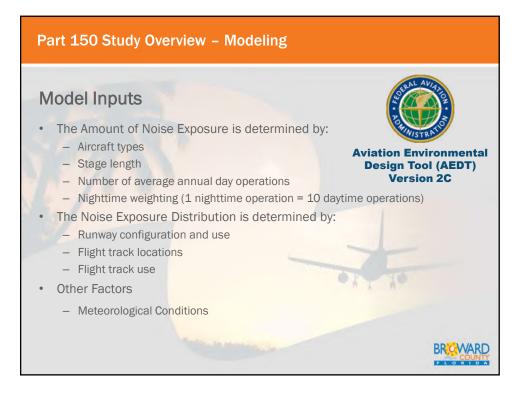




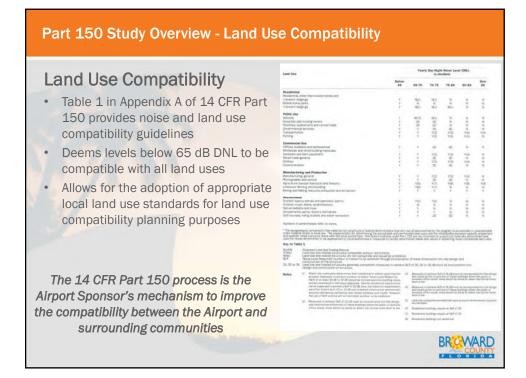


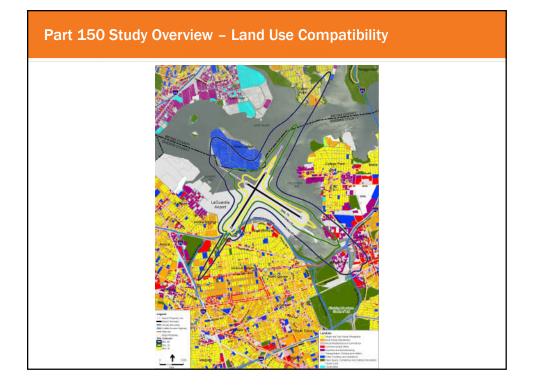


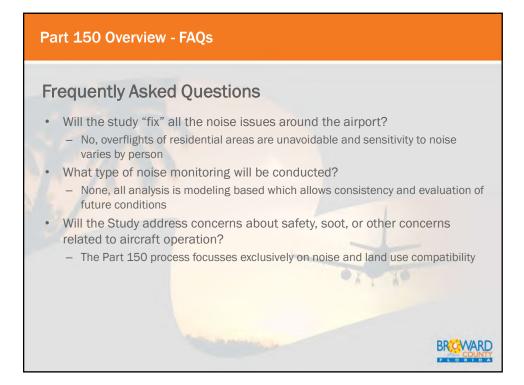




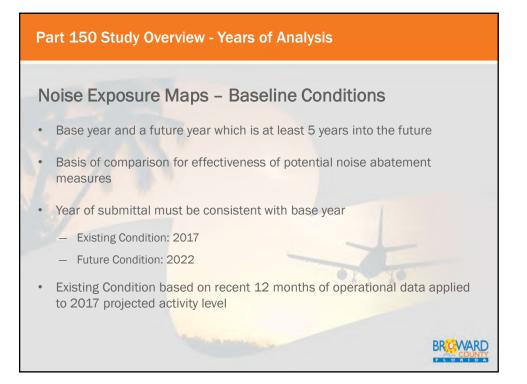














Annual Aircraft Operations							
Date	Air Carrier	Air Taxi	General Aviation	Military	Total		
January 2016	19,945	2,849	3,377	39	26,210		
February 2016	19,026	2,711	3,188	49	24,974		
March 2016	21,120	3,343	3,948	55	28,466		
April 2016	18,871	3,203	3,334	52	25,460		
May 2016	17,807	3,031	2,884	106	23,828		
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		

Data Collection - 2016 Operational Information

Data Collection - 2016 Operational Information

Daytime and Nighttime Operations

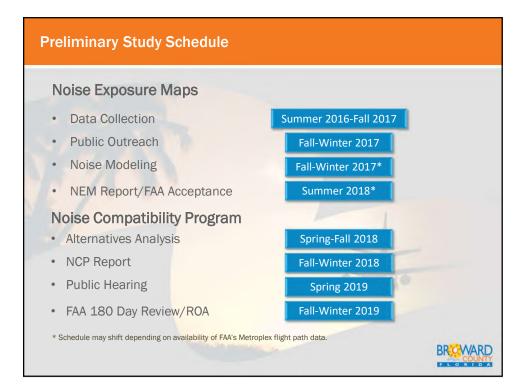
Operation Type	Day	Night	Grand Total
Arrivals	84%	16%	100%
Departures	90%	10%	100%
Grand Total	87%	13%	100%
Source: Airport Noise Mo	onitoring and Manager	nent System (ANOMS)	, 2016.

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Runway Usage

Runway	Day	Night	Grand Total
10L	52%	74%	55%
10R	29%	7%	26%
28L	7%	1%	6%
28R	12%	18%	13%
	100%	100%	100%
10L	49%	65%	51%
10R	32%	16%	30%
28L	7%	3%	6%
28R	12%	16%	13%
Departures Total		100%	100%
	10L 10R 28L 28R 10L 10R 28L	10L 52% 10R 29% 28L 7% 28R 12% 100% 100% 10L 49% 10R 32% 28L 7%	10L 52% 74% 10R 29% 7% 28L 7% 1% 28R 12% 18% 100% 100% 100% 10L 49% 65% 10R 32% 16% 28L 7% 3% 28R 12% 16%











Technical Committee

Meeting #1

Meeting Summary

Fort Lauderdale-Hollywood International Airport 14 CFR Part 150 Noise and Land Use Compatibility Study Technical Committee Meeting #1 May 26, 2017

Meeting Notes

Agenda and Key Topics:

- Welcome and Introductions
- Technical Committee Roles and Responsibilities
- Fort Lauderdale-Hollywood International Airport (FLL) Airport Overview
- 14 CFR Part 150 Overview
- Noise, Modeling, and Land Use Compatibility
- Initial Data Collection
- Project Schedule

Meeting Summary:

As the inaugural meeting, the primary focus was to establish a clear understanding of the roles, responsibilities, and expectations of the Technical Committee (TC) members. The TC's role is to support the FLL Part 150 Study, review study assumptions, and provide technical feedback within the context of the 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 responsible for advising their organization and/or constituents of the TC's discussions.

- The Technical Committee convened for its first meeting at 10:00 AM on May 26, 2017 at the Secret Woods Nature Center in the Julia Hall.
- The meeting began with introductions of participants and was followed by opening remarks from Mark Gale, Aviation Director for FLL.
- The meeting facilitator established ground rules for the TC members. Since the meeting format did not allow for public participating, attending members of the public were advised of ways in which they could submit comments which included the project website (<u>www.fllpart150.com</u>) and at future public meeting (dates TBD).
- Michael Arnold, Part 150 Study Project Director representing the ESA consulting team presented Study information to TC members. The presentation provided an overview of FLL, the purpose and process of a Part 150 Study, data collection, anticipated timeline, and next steps related to the FLL Part 150 Study.

Questions & comments from TC members:

Q: Does the committee have access to the accelerated forecast approved on April 10?

A: Yes. It will be presented at a future TC meeting and will be available on the FLL Master Plan Update website (<u>http://www.broward.org/Airport/Community/MasterPlan</u>).

Q: Where is the funding for the study coming from?

A: The Federal Aviation Administration (FAA) is providing 75% and the Broward County Aviation Department (BCAD) is funding the remaining 25%.

Q: How will the Part 150 Study and the Airport Master Plan Update work together?

A: The main information developed in the Master Plan that will be used in the noise study is the forecasted aircraft activity levels. If there are any changes to the airfield in the Master Plan Update those changes would need to be incorporated in the future noise analysis. In this case, any airfield changes prior to 2022 would be included in the Part 150 Study future condition, which will also model the accelerated baseline forecast operational levels.

Q: Are we strictly talking about aircraft noise and not car traffic around the airport?

A: That is correct. The study is limited to aircraft noise. The Master Plan Update will study vehicle traffic around the airport.

Q: FLL operates to the east 80% of the time and the west the remaining 20%. Aircraft flows vary depending on the season. How is the difference in operations weighed in the noise study using DNL?

A: Day-Night Average Sound Level (DNL) is the only metric approved by FAA for compatibility purposes. It reflects annual average day sound exposure. This metric doesn't depict the specific fluctuations of noise based on season or peak times, even though the model includes those periods.

Q: Noise occurring between 10pm and 7am is penalized by 10 decibels to account for higher sensitivity?

A: With the DNL metric, any aircraft activity occurring within that time frame is adjusted by 10 decibels to account for the increased sensitivity to noise at night. One nighttime aircraft operation has the same effect on the noise contours as 10 daytime aircraft operations.

Q: Do you have an existing land use compatibility map for FLL?

A: We will be developing an existing land use map as part of the study. Compatibility will be determined once we have modeled existing and future conditions.

Q: Is compatibility tied to aircraft's distance to the airport and the height above the residences?

A: We look at the altitude and location of flight tracks in three dimensions when setting up the model. We also include specific engine types when we model aircraft operations.

C: The contours are wider where planes take off and narrower where planes land.

Q: Can you add equestrian areas in categories of noise sensitivities for the Town of Davie?

A: Equestrian is not a separate category in land use data; however, we can look at those types of uses and where they are located. Humans are the priority when it comes to land use impacts.

When we look at making changes that result in flight path changes, we will consider whether there is an impact on the community, as well as the equestrians to the extent possible.

Q: Will the study recommend the installation of more noise monitors in highly impacted areas around FLL?

A: We will look at the existing noise monitors when determining the necessary adjustments to recommend in the Study, which may include relocating or installing additional monitors.

Q: Are you looking at 2014 in the noise study comparison? Are you just looking at 2015 and 2016?

A: 2017 is the existing condition year; we will not be modeling 2014, 2015, or 2016 aircraft operations. Actual aircraft operational data from 2016 will be applied to 2017 aircraft operations (counts) in order to accurately model the existing conditions. We will look at the existing (2017) and future (2022) conditions to determine how to improve noise impacts in the future.

Q: How are stage lengths analyzed and will you be getting actual weights?

A: We will use destination and aircraft profile (altitude) information from FLL's Airport Noise Monitoring and Management System (ANOMS). We will use actual weight information if it is available.

Q: In your modeling, how do you account for flight operations with the various pilot flight patterns?

A: We will use 2016 flight operations data from ANOMS to develop flight tracks.

Q: What is included in Air Taxi column? Does it include charter operators or just commuters?

A: Air Taxi operations include small commercial aircraft operations, such as charter and commuter aircraft.

Q: How do you account for the explosion in population growth?

A: Census population estimates will be included in the data collection effort.

Q: Are we able to get a brief update on the Master Plan at each of these meetings?

A: The Master Plan Update has recurring Technical Advisory Committee meetings that provide an update at the beginning of each of those meetings.

Q: Do you have expectations for the next meeting?

A: We will post on the website a copy of 14 CFR Part 150 for you to review for next meeting. Please fill out the Participation Agreement and return it to us before that meeting.

Q: Are military aircraft included in this Study?

A: Yes.

Actionable Next Steps:

As agreed upon by the TC members, the next meeting will be held at the Secret Woods Nature Center - Julia Hall, in August 2017, on a Wednesday morning.

Meeting Adjourned at 12:00 PM

Appendix H-2 Technical Committee Meeting #2 August 23, 2017

Technical Committee

Meeting #2

Meeting Notice and

Attendance Roster



AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport 2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

Subject: Fort Lauderdale-Hollywood International Airport 14 CFR Part 150 Study - Technical Committee Meeting #2

Please save the date for the next Technical Committee meeting to support the Fort Lauderdale-Hollywood International Airport Part 150 Study.

Date: Wednesday, August 23, 2017

Time: 10:00AM - 12:00PM

Location: Secret Woods Nature Center | Julia Hall; 2701 W. SR 84; Dania Beach, FL 33312

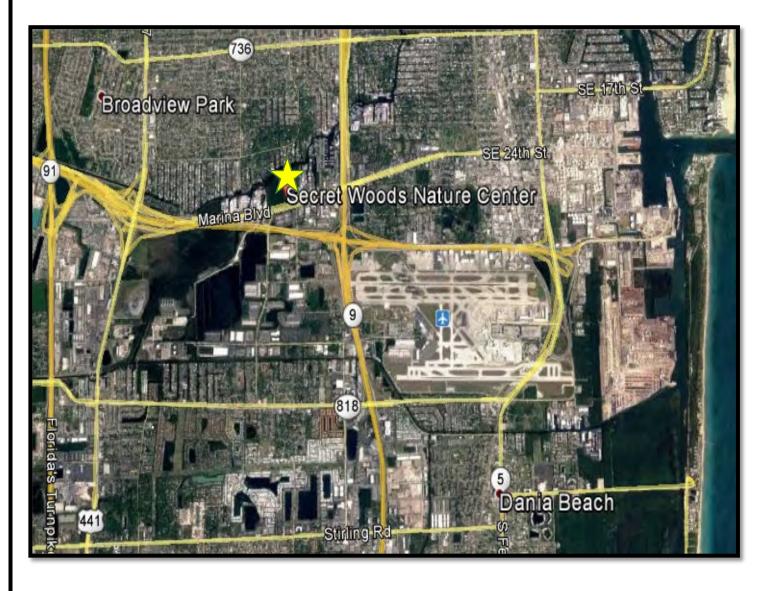
Please arrive 10 minutes early to allow time to check in prior to the start of the meeting.

Broward County Board of County Commissioners

Mark D. Bogen • Beam Furr • Steve Geller • Dale V.C. Holness • Chip LaMarca • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine www.broward.org/www.fll.net

Secret Woods Nature Center

Julia Hall 2701 W. SR 84 Dania Beach, FL 33312



From the East: Take FL-84 / Marina Mile Blvd. and turn right into the Secret Woods Nature Center.

From the West: Take FL-84 / Marina Mile Blvd. and make a U-turn after SW 26th Terrace. Turn right into the Secret Woods Nature Center.

From the North via I-95: Follow I-95 to South to Exit 25, FL-84 / Marina Mile Blvd. Head west on FL-84 / Marina Mile Blvd. and turn right into the Secret Woods Nature Center.

From the South via I-95: Follow I-95 North to Exit 25, FL-84 / Marina Mile Blvd. Head west on FL-84 / Marina Mile Blvd. and turn right into the Secret Woods Nature Center.

From the North via US-441: Follow US-441 South to FL-84 / Marina Mile Blvd. and make a U-turn after SW 26th Terrace. Turn right into the Secret Woods Nature Center.

From the South via US-441: Follow US-441 North to FL-84 / Marina Mile Blvd. and make a U-turn after SW 26th Terrace. Turn right into the Secret Woods Nature Center.



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee $\, \mathcal{Z} \,$

Date / Time: Wednesday, August 23, 2017 10:00 AM - 12:00 PM

Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Akagbosu	Chris	Director, Facility of Planning & Real Estate Dept.	Broward County School Board	754-321-2162		chris.akagbosu@browardschools.com	the pos
Annunziata	Jason	Station Manager	JetBlue	954 233-4722	646-942-2775	Jason. Annunziata@jetblue.com	
Boutros	Kareen	Executive Director	Broward Workshop	954-462-9112		kareen@browardworkshop.com	
Cannicle	Winston	Noise & Environmental Officer	Broward County Aviation Department - Airport Noise Office	954-359-6181		WCANNICLE@broward.org	Ma
Castillo (A)	Will	Airport Planning Manager	Broward County Aviation Department - Airport Noise Office	954-359-2291		wcastillo@broward.org	puce
Cooley (A)	Sid		FLL Airport Traffic Control Tower	954-921-9200		sidney.cooley-jr@faa.gov	
Coutain, Jr,	Ken	Airport Planner	Broward County Aviation Department - P/D	954-359-1599		kcoutain@broward.org	1 ACTAIL
DelNegri	Theodore (TJ)	Tower Manager	FLL Airport Traffic Control Tower	954-921-9201		theodore.delnegri@faa.gov	
Dokuchitz	Peter	Principal Planner / City of Plantation	City of Plantation	954-797-2265		pdokuchitz@plantation.org	Lehnsht
Eastman	John	John Eastman	Town of Southwest Ranches	954-465-8383		john426@bellsouth.net	aphila
Flint	John R.	City Manager / CEO	City of Weston	954-385-2000		jflint@westonfl.org	10h
Gaenicke	Sierra		VHB			sgaenicke@vhb.com	
Gale	Mark	Director of Aviation	Broward County Aviation Department			mgale@broward.org	
Gertsen (A)	Alex	Director of Airports and Ground Infrastructure	NBAA	202-737-4477		Associationagertsen@nbaa.org	
Govin	Yasmin		Broward County Aviation Department - Airport Business	954-359-6145	50	ygovin@broward.org	. 1
Hemmerle	Mark	Front Line Manager	South Florida Flight Standards Division (FSDO)	954-641-6015		Mark.W.Hemmerle@faa.gov	MAR
Hildebidle	Bob	Air Traffic Manager A	Miami Air Traffic Management/TRACON	305-869-5402	954-292-6515	Bob.Hildebidle@faa.gov	
Hoffman	Kevin	Corporate Contact	UPS	502-329-3913		khoffmann@ups.com	
Holste (A)	Phillip	Assistant Town Administration	Town of Davie	954-797-1034		Phillip_Holste@davie-fl.gov	
Hotte	Anne	CEO/Executive Director	Greater Hollywood Chamber of Commerce	954-923-4000		anne@hollywoodchamber.org	
Kaine (A)	Brad	Director of Public Services	City of Dania Beach	954-924-6808		bkaine@daniabeachfl.gov	



Broward County Aviation Department - Airport Development

Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee

Date / Time: Wednesday, August 23, 2017 10:00 AM - 12:00 PM

Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
LaFerrier	Marc	Director, Community Development	City of Dania Beach	954-924-6805 x3643		mlaferrier@ci.dania-beach.fl.us	Mr.
Lemack	Richard	Town Administrator	Town of Davie	954-797-1034		Richard_Lemack@davie-fl.gov	Auge Ben
Lindblade, CAE	Dan	CAE - President and CEO	Greater Fort Lauderdale Chamber of Commerce	954-462-4911		dan@ftlchamber.com	TANK
out Ths.	Gary		ANAC	954-966-8013		gluedtke@gmail.com	How & hard
Lundrigan	Julia	Delta Flight Ops	Delta Airlines	404-773-2882	678-427-1350	Julia.lundrigan@delta.com	0 Fr
Mertens-Black	Lorie	Chief Civic Affairs Officer	City of Hollywood	954-921-3599		Imertens-black@hollywoodfl.org	
Meyer	Gregory	Public Information Officer	Broward County Aviation Department - PIO	954-359-6116		GMeyer@broward.org	
Modrich (A)	Mark	AA Pilot/Resident	Town of Southwest Ranches	954-540-4854	954-252-5040	mmodrich@aol.com	
Morrissey	Mary	Senior Manager	FedEx	954-359-7432		mmmorrissey@fedex.com	
Nagy	Allan	Environmental Program Specialist	FAA - Orlando Airports District Office	407-812-6331 x130		Allan.Nagy@faa.gov	on phone
Nazzaro	Tom	Airport Manager, Aviation	Broward County Aviation Department - Airport Business	954-359-6821		tnazzaro@broward.org	
Nonnemacher (A)	Michael	Acting Assistant Executive Director	Broward County Aviation Department - Airport Operations			mnonnemacher@broward.org	
Ostendorf	Brad	EMUTERNOOR MANAGO	Broward County Aviation Department	954-359-2395	954 829 0357	bostendorf@broward.org	n
Pacitto (A)	Mike	Director of Planning	Broward County Aviation Department - Airport Manager's Office	954-560-0766	/	mppacitto@broward.org	Matt
Pluzhnyk Evans	Angelina	Chief Civic Affairs Officer	City of Fort Lauderdale	561-715-9112 -C	Some	lina@chyden.net	as
Pokryfke	John	Asst. Director of Operations, Aviation	Broward County Aviation Department - Airport Operations	954-359-6475		jpokryfke@broward.org	
Rames (A)	Geoff	Lauderdale Isles Water Management District	City of Fort Lauderdale	954-327-9095		grames.licia@gmail.com	S.F.
Rebholz	Edward		City of Fort Lauderdale	973-476-5609		ed@edrebholz.com	lot
Robbin	Sam	CEO	National Jets/Broward Workshop	954-868-2166		samrobbin@nationaljets.com	- 0
Shane	Randie	CEO/Executive Director	Greater Dania Beach Chamber of Commerce	954-926-2323		rshane@daniabeachchamber.org	
Shiver	Michael	General Manager	Spirit Airlines	954-359-0933		michael.shiver@spirit.com	



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee

Date / Time: Wednesday, August 23, 2017 10:00 AM - 12:00 PM

Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Siegel (A)	Allan	Public Informations Officer	Broward County Aviation Department	954-359-6978		Asiegel@broward.org	allen Sucal
Solley	Edwin	Manager ATC Systems	Southwest Airlines	407-850-1563		Edwin.solley@wnco.com	Edwin Solly
Swindell	Bob	President and CEO	Greater Fort Lauderdale Alliance Economic Development Agency	954-524-3113		bswindell@gflalliance.org	
Taylor	Charles	Intergovernmental Affairs Manager	Town of Davie	954-797-1034		Charles_Taylor@davie-fl.gov	-A-
/an Valkenburgh (A)	Debra		ANAC			perhelion@hotmail.com	- 1 -
Voos	Gregory	South Regional Representative	NBAA	202-737-4475		gvoos@nbaa.org	(g) and
Wood	Matt	Growth Management Director	City of Cooper City	954-434-4300		MWood@coopercityfl.org	10
Wu	Kevin	Airport Manager	Broward County Aviation Department - OPS	954-359-1216	954-279-4740	kwu@broward.org	



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Meeting #2

Date / Time: Wednesday, August 23, 2017 10:00 AM - 12:00 PM

Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Akagbosu	Chris	Director, Facility of Planning & Real Estate Dept.	Broward County School Board	754-321-2162		chris.akagbosu@browardschools.com	
Annunziata	Jason	Station Manager	JetBlue	954 233-4722	646-942-2775	Jason.Annunziata@jetblue.com	
Boutros	Kareen	Executive Director	Broward Workshop	954-462-9112		kareen@browardworkshop.com	
Cannicle	Winston	Noise & Environmental Officer	Broward County Aviation Department - Airport Noise Office	954-359-6181		WCANNICLE@broward.org	
Castillo (A)	Will	Airport Planning Manager	Broward County Aviation Department - Airport Noise Office	954-359-2291		wcastillo@broward.org	
Cooley (A)	Sid		FLL Airport Traffic Control Tower	954-921-9200		sidney.cooley-jr@faa.gov	
Coutain, Jr.	Ken	Airport Planner	Broward County Aviation Department - P/D	954-359-1599		kcoutain@broward.org	
DelNegri	Theodore (TJ)	Tower Manager	FLL Airport Traffic Control Tower	954-921-9201		theodore.delnegri@faa.gov	
Dokuchitz	Peter	Principal Planner / City of Plantation	City of Plantation	954-797-2265		pdokuchitz@plantation.org	
Eastman	John	John Eastman	Town of Southwest Ranches	954-465-8383		john426@bellsouth.net	
Flint	John R.	City Manager / CEO	City of Weston	954-385-2000		jflint@westonfl.org	
Gaenicke	Sierra		VHB			sgaenicke@vhb.com	
Gale	Mark	Director of Aviation	Broward County Aviation Department			mgale@broward.org	
Gertsen (A)	Alex	Director of Airports and Ground Infrastructure	NBAA	202-737-4477		Associationagertsen@nbaa.org	
Govin	Yasmin		Broward County Aviation Department - Airport Business	954-359-6145		ygovin@broward.org	
Hemmerle	Mark	Front Line Manager	South Florida Flight Standards Division (FSDO)	954-641-6015		Mark.W.Hemmerle@faa.gov	
Hildebidle	Bob	Air Traffic Manager A	Miami Air Traffic Management/TRACON	305-869-5402	954-292-6515	Bob.Hildebidle@faa.gov	
Hoffman	Kevin	Corporate Contact	UPS	502-329-3913		khoffmann@ups.com	
Holste (A)	Phillip	Assistant Town Administration	Town of Davie	954-797-1034		Phillip_Holste@davie-fl.gov	NUMBER 1
Hotte	Anne	CEO/Executive Director	Greater Hollywood Chamber of Commerce	954-923-4000		anne@hollywoodchamber.org	
Kaine (A)	Brad	Director of Public Services	City of Dania Beach	954-924-6808		bkaine@daniabeachfl.gov	



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Meeting #2

Date / Time: Wednesday, August 23, 2017 10:00 AM - 12:00 PM

Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
LaFerrier	Marc	Director, Community Development	City of Dania Beach	954-924-6805 x3643		mlaferrier@ci.dania-beach.fl.us	
Lemack	Richard	Town Administrator	Town of Davie	954-797-1034		Richard_Lemack@davie-fl.gov	
Lindblade, CAE	Dan	CAE - President and CEO	Greater Fort Lauderdale Chamber of Commerce	954-462-4911		dan@ftlchamber.com	
Luedtke	Gary		ANAC	954-966-8013		gluedtke@gmail.com	
Lundrigan	Julia	Delta Flight Ops	Delta Airlines	404-773-2882	678-427-1350	Julia.lundrigan@delta.com	pe Lot
Mertens-Black	Lorie	Chief Civic Affairs Officer	City of Hollywood	954-921-3599		Imertens-black@hollywoodfl.org	
Meyer	Gregory	Public Information Officer	Broward County Aviation Department - PIO	954-359-6116		GMeyer@broward.org	
Modrich (A)	Mark	AA Pilot/Resident	Town of Southwest Ranches	954-540-4854	954-252-5040	mmodrich@aol.com	
Morrissey	Mary	Senior Manager	FedEx	954-359-7432		mmmorrissey@fedex.com	
Nagy	Allan	Environmental Program Specialist	FAA - Orlando Airports District Office	407-812-6331 x130		Allan.Nagy@faa.gov	
Nazzaro	Tom	Airport Manager, Aviation	Broward County Aviation Department - Airport Business	954-359-6821		tnazzaro@broward.org	
Nonnemacher (A)	Michael	Acting Assistant Executive Director	Broward County Aviation Department - Airport Operations			mnonnemacher@broward.org	
Ostendorf	Brad		Broward County Aviation Department	954-359-2395		bostendorf@broward.org	
Pacitto (A)	Mike	Director of Planning	Broward County Aviation Department - Airport Manager's Office	954-560-0766		mppacitto@broward.org	1991-1991
Pluzhnyk Evans	Angelina	Chief Civic Affairs Officer	City of Fort Lauderdale	561-715-9112 -C		lina@chyden.net	
Pokryfke	John	Asst. Director of Operations, Aviation	Broward County Aviation Department - Airport Operations	954-359-6475	C SHE I	jpokryfke@broward.org	
Rames (A)	Geoff	Lauderdale Isles Water Management District	City of Fort Lauderdale	954-327-9095		grames.licia@gmail.com	
Rebholz	Edward		City of Fort Lauderdale	973-476-5609		ed@edrebholz.com	
Robbin	Sam	CEO	National Jets/Broward Workshop	954-868-2166		samrobbin@nationaljets.com	
Shane	Randie	CEO/Executive Director	Greater Dania Beach Chamber of Commerce	954-926-2323		rshane@daniabeachchamber.org	
Shiver	Michael	General Manager	Spirit Airlines	954-359-0933		michael.shiver@spirit.com	



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Meeting #2

Date / Time: Wednesday, August 23, 2017 10:00 AM - 12:00 PM

Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Siegel (A)	Allan	Public Informations Officer	Broward County Aviation Department	954-359-6978		Asiegel@broward.org	
Solley	Edwin	Manager ATC Systems	Southwest Airlines	407-850-1563		Edwin.solley@wnco.com	
Swindell	Bob	President and CEO	Greater Fort Lauderdale Alliance Economic Development Agency	954-524-3113		bswindell@gflalliance.org	
Taylor	Charles	Intergovernmental Affairs Manager	Town of Davie	954-797-1034		Charles_Taylor@davie-fl.gov	
Van Valkenburgh (A)	Debra		ANAC			perhelion@hotmail.com	
Voos	Gregory	South Regional Representative	NBAA	202-737-4475		gvoos@nbaa.org	
Wood	Matt	Growth Management Director	City of Cooper City	954-434-4300		MWood@coopercityfl.org	1. nluose
Wu	Kevin	Airport Manager	Broward County Aviation Department - OPS	954-359-1216	954-279-4740	kwu@broward.org	



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee

Date / Time: Friday, May 26, 2017 10:00 AM - 12:00 PM

First & Last Name	Title	Company Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Awid Ranaconti	Director	Ricondo & Associato	561 277-3715	954 - 254- 1501	d-ramacorti@ricondo.com	Dain Mar
Phine James	Airport Manager	Fort Lunder dake Executive	954-828-4968		rjames@fortlauderdake .gov	Siller E
Heather MacFatyre	Guest	live in Lauderstate Ister	305.987.741	6 SAA	macintyreh a mic com	Harep Martin
PAT WRIGHT	Guest				RCWPAWDJuno. Com	Patienter
JOHN EASTMAN	SW RANCHES (TC member)				
SARA Wichols	Ralton	TRANS STATE REALTY	954 854 5424	1	Saranichols321@ MAHOO. com	Shu UNich
					Self en at Victoria	



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee

Date / Time: Friday, May 26, 2017 10:00 AM - 12:00 PM

Location: Secret Wood Nature Center

First & Last Name	Title	Company Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Richard C Preninger				934-591-1741	RCP37eJun.Ca	Rie Coley
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	*					
			•			
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Page 1 of 2

Technical Committee

Meeting #2

Materials Presented at Meeting





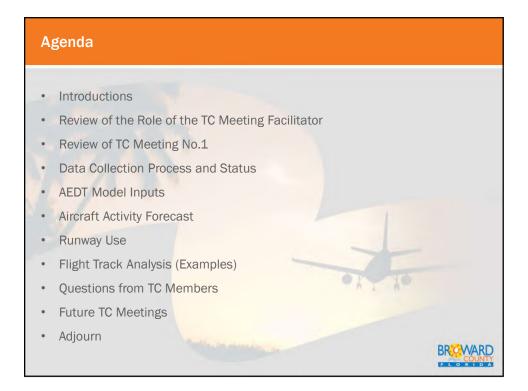
AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport 2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

Meeting Agenda Technical Committee Meeting No. 2 14 CFR Part 150 Study Fort Lauderdale-Hollywood International Airport

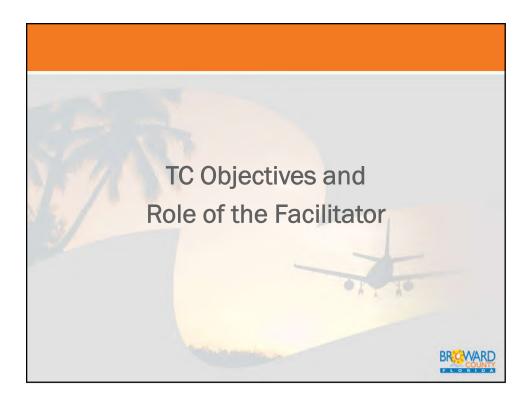
August 23, 2017 – 10AM to 12PM EDT

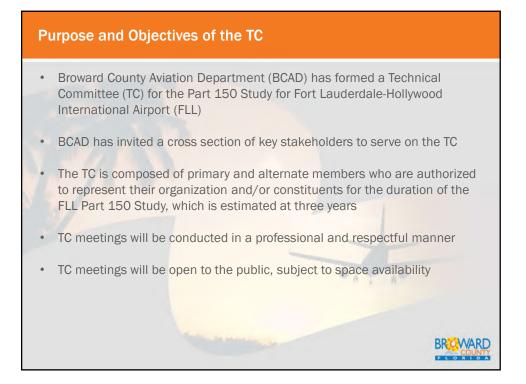
- 1. Introductions
- 2. Review of the Role of the TC Meeting Facilitator
- 3. Review of TC Meeting No.1
- 4. Data Collection Process and Status
- 5. AEDT Model Inputs
- 6. Aircraft Activity Forecast
- 7. Runway Use
- 8. Flight Track Analysis (Examples)
- 9. Future TC Meetings
- 10. Questions from TC Members
- 11. Adjourn



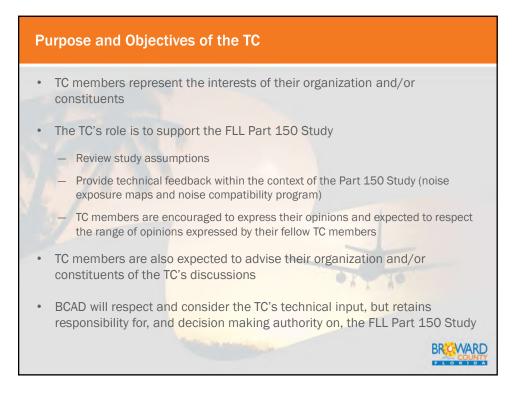


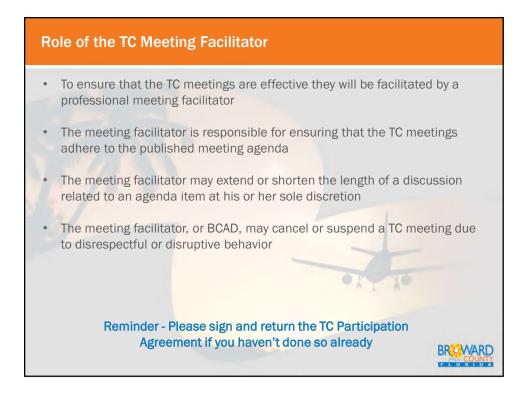


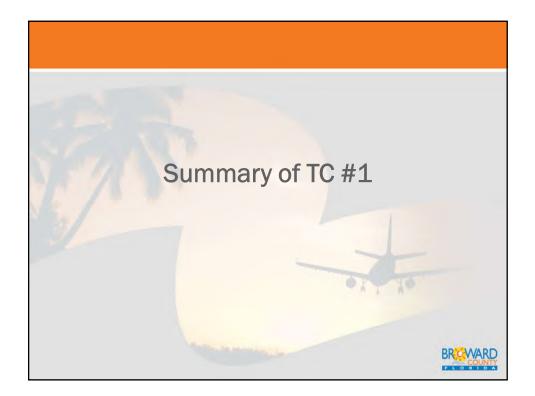




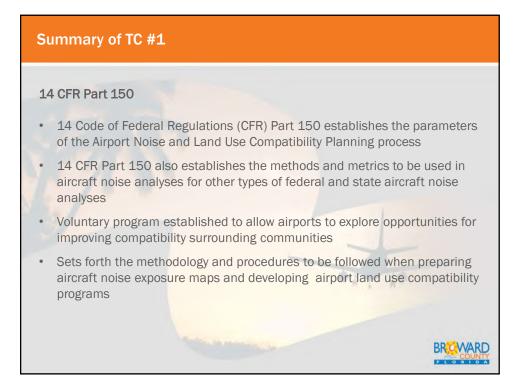
TC Members	
 BCAD ANAC Southwest Airlines Delta Airlines JetBlue Spirit Airlines FedEx* UPS NBAA Greater Fort Lauderdale Chamber of Commerce Greater Hollywood Chamber of Commerce Greater Dania Beach Chamber of Commerce Greater Fort Lauderdale Alliance Economic Development Agency Broward Workshop 	 City 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.	BRCMARD

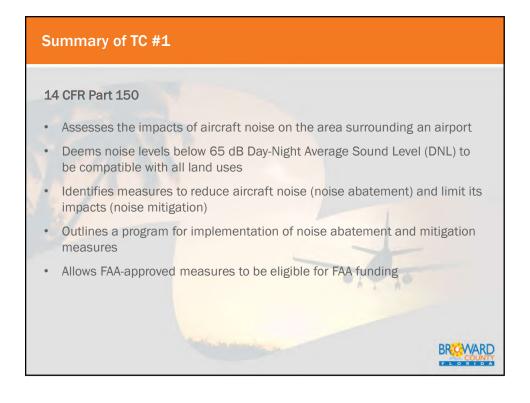


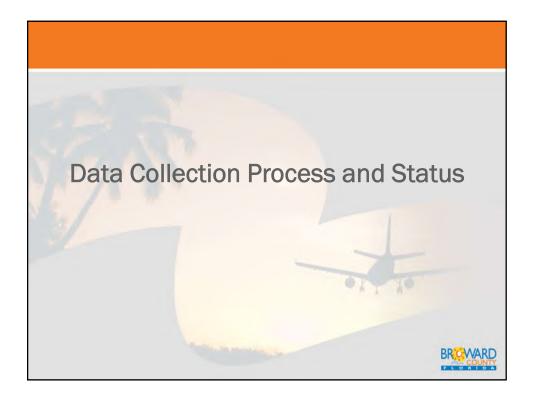


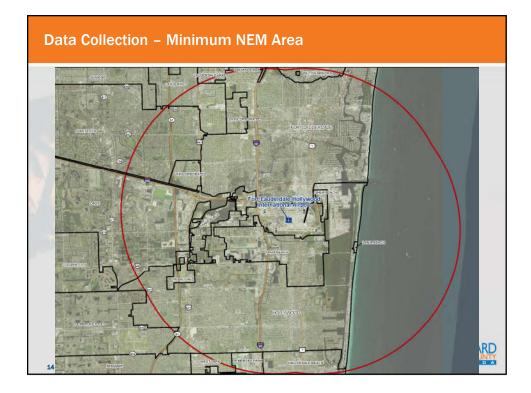








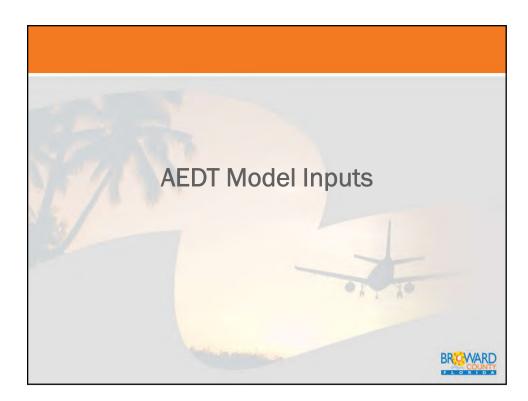


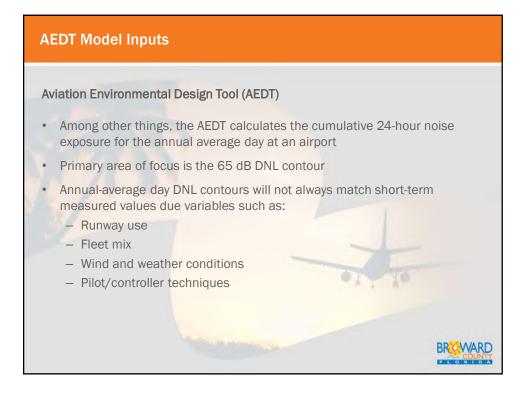


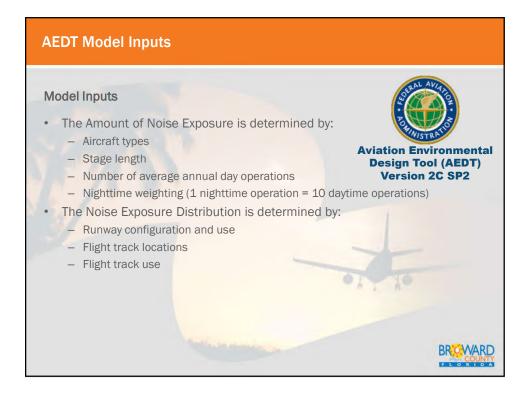


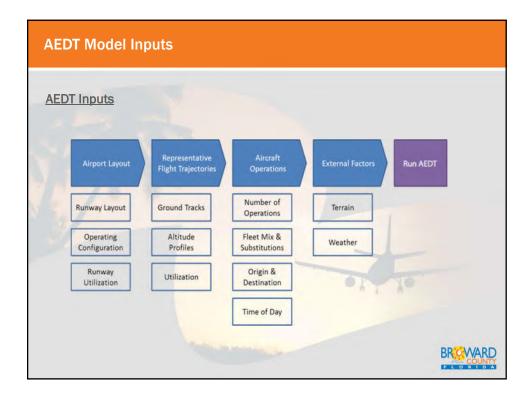








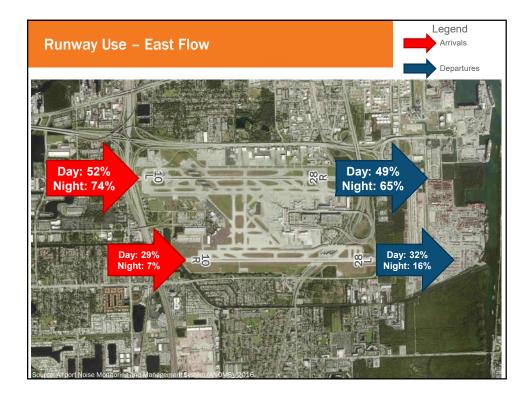


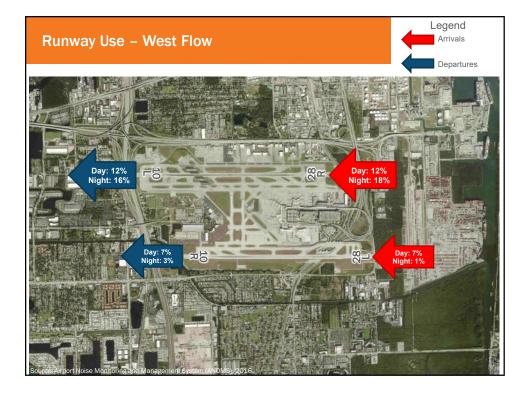




	Aircraft /	Activity F	orecast	
	 FAA ap Update 	e (MPU) Acc st for the F	al: of Master Plan selerated Baseline LL 14 CFR Part	Bit Disputment of Transportation recently Available ORLANDO AIRPORTS DISTRICT OFFICE S950 Hazeline National Drive Suite 400 Orticalor 1, 25222 Phone: (407) B12-6331 Fax: (407) B12-63978 April 10, 2017 Mr. William Castillo Auront Plenning Manager Borold Cast Planeling Banager Borold Cast Planeling Banager Banager Planeling Banager Planeling Banager Banager Planeling Banager Planeling Banager Planeling Banager Planeling Banager Planeling Banager Planeling Banager Planeling Banager Banager Planeling Banager Planeling Banager Planeling Banager Pla
2	Fiscal Year	FAA TAF	MPU Accelerated Baseline Forecasts	RE: Fort Lauderdale-Holywood International Arport, Fort Lauderdale, FL Approval of Forcast for use in the 14 CRF R ant 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-Hollwood International Airport (FLL). On January 13, 2017, the Federal Aviation Administration (FAA) approved the Baseline Forecast for FLL and accepted the Accelerated Baseline Forecast for FLL and accepted the Accelerated Baseline Forecast for Flux and Baseline Forecast for Flux and accepted the Accelerated Baseline Forecast for Flux and accepted the Accelerated Baseline Forecast for Flux and Baseline Flux and Baseline Forecast for Flux and Baseline Fl
	2017	304,590	329,300	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) publicand in January, 2017.
	2018	311,559	335,000	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 origining FLL Part 150 Study.
	2023	343,194	364,765	If you have any questions, please feet free to contact me at (407) 812-6331, ext. 130. Secondry, Johns M. J. J. M.
		, Terminal Area Fo sociates, Inc., 201		Aliun M. Nagy FAA Orlando ADD Ehvironmental Program Specialist



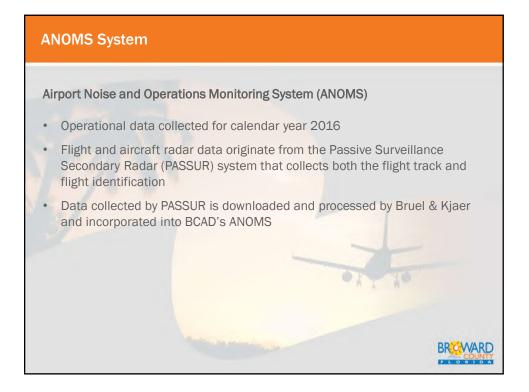


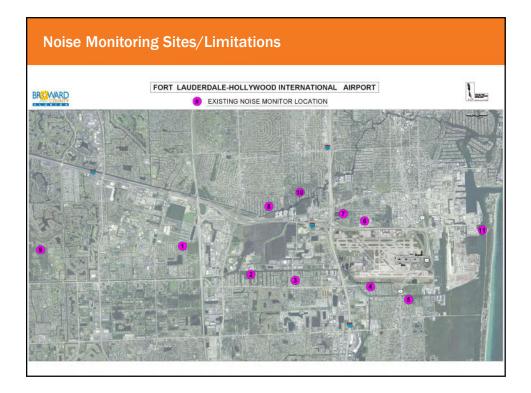


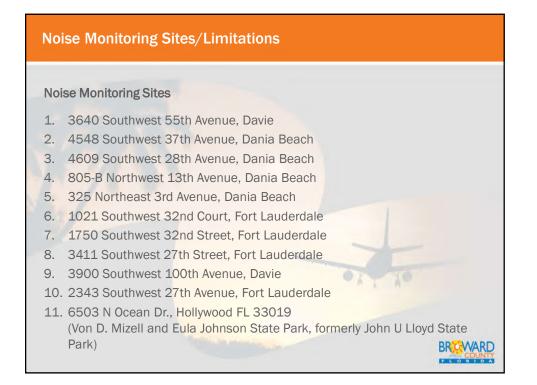
Runway Use	

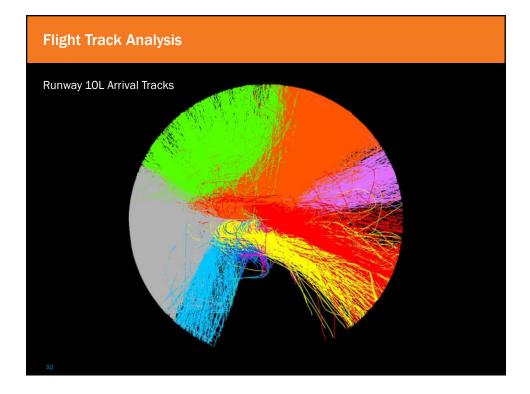
Daytime and Nighttime Operations							
Operation Type	Day	Day		Night		Grand Total	
Arrivals	849	6	16%			100%	
Departures	90%	6	ź	10%		100%	
Grand Total	879	6	1	13%		100%	
Source: Airport Noi	se Monitoring and	Manager	nent Syst	tem (ANOMS),	, 2016	δ.	
	Ru	unway	Usag	ge			
Operation Type	Runway	Da	ay	Night		Grand Total	
			North R	lunway			
	10L	52	2%	74%		55%	
	28R	12	2%	18%		13%	
Arrivolo	Total	64	%	92%		68%	
Arrivals	South Runway						
	10R	29	9%	7%		26%	
	28L	7	%	1%		6%	
	Total	36	5%	8%		32%	
			North R	Runway			
	10L	49	9%	65%		51%	
	28R	12	2%	16%		13%	
Doporturos	Total	61	%	81%		64%	
Departures			South R	lunway			
	10R	32	2%	16%		30%	
	28L	7	%	3%		6%	
	Total	39	%	19%		36%	

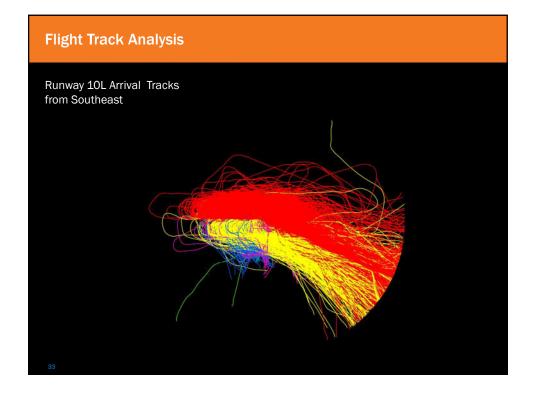


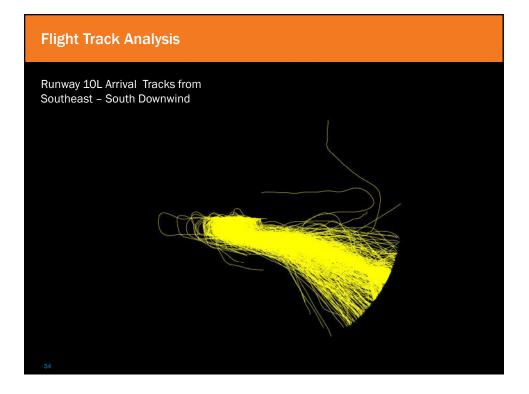


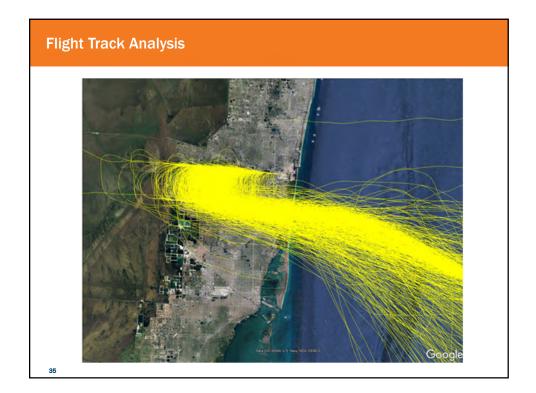




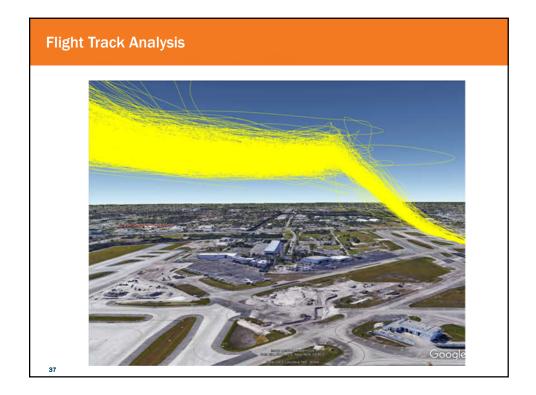




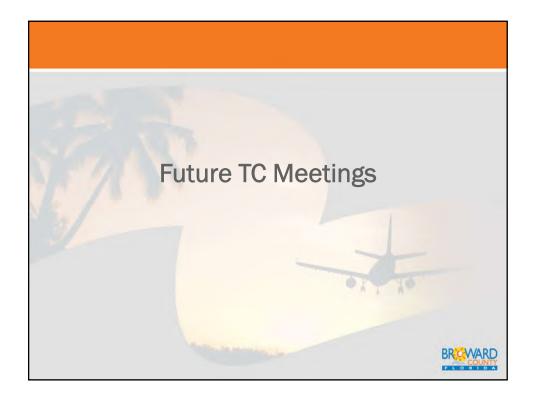
















Technical Committee

Meeting #2

Meeting Summary

Fort Lauderdale-Hollywood International Airport 14 CFR Part 150 Noise and Land Use Compatibility Study **Technical Committee Meeting #2** August 23, 2017

Meeting Minutes

Committee Members in Attendance

Chris Akagbosu - BCPS Peter Dokuchitz - City of Plantation John Eastman - Town of Southwest Ranches John R. Flint – City of Weston Mark Hemmerle - FSDO Marc LaFerrier - City of Dania Beach Richard Lemack - Town of Davie Dan Lindblade - Greater Fort Lauderdale Chamber of Charles Taylor - Town of Davie Commerce Gary Luedtke - ANAC

Julia Lundrigan – Delta Airlines Allan Nagy – FAA (remote attendee) Angelina Pluzhnyk Evans - City of Fort Lauderdale Geoff Rames - City of Fort Lauderdale Edward Rebholz - City of Fort Lauderdale Edwin Solley - Southwest Airlines Gregory Voos – NBAA Matt Wood - City of Cooper City

Others Present

Winston Cannicle - BCAD Will Castillo – BCAD Ken Coutain, Jr. - BCAD

Brad Ostendorf - BCAD Mike Pacitto - BCAD Allan Siegel – BCAD

Agenda and Key Topics:

- Welcome
- Technical Committee Roles and Responsibilities
- Review of Technical Committee (TC) Meeting #1
- Data Collection Process and Status
- Aviation Environmental Design Tool (AEDT) Model Inputs •
- Aircraft Activity Forecast
- Runway Use
- Flight Track Analysis
- Future Technical Committee Meetings

Meeting Summary:

- The Technical Committee convened for its second meeting at 10:00 AM on August 23, 2017 at the Secret Woods Nature Center in the Julia Hall.
- The meeting began with re-introductions of participants.
- Ground rules for the TC members were reviewed by the facilitator. Attending members of the public were advised of ways in which they could submit comments including the project website (<u>www.fllpart150.com</u>) and at future public meeting (dates TBD).
- The role of TC members as well as content presented at the inaugural meeting were reviewed. This included TC's role in supporting the FLL Part 150 Study, review of study assumptions, and providing technical feedback within the context of the study (Noise Exposure Maps and Noise Compatibility Program). TC members were encouraged to express their opinions and expected to respect the range of opinions expressed by their fellow TC members. TC members were also expected to advise their organization and/or constituents of the TC's discussions.
- A presentation of key topics was given by Michael Arnold, Part 150 Project Director representing the ESA consulting team. The presentation included the following information:
 - A review of the material presented in TC #1.
 - Overview of the data collection process and status
 - o An introduction to AEDT and modeling inputs
 - The Aircraft Activity Forecast The FAA's approval of the Master Plan accelerated baseline forecast for use in the Part 150 study and the use of 2018 and 2023 activity levels for the baseline noise conditions
 - Runway usage Individual runway use in CY 2016 and flows including the heavily weighted east flow operation
 - Daytime/Nighttime operations (10:00 pm 6:59:59 AM) Use in overall terms as well as how it relates to the CY 2016 activity on the individual runways by operation type (arrival or departure). Potential for greater annoyance and 10 dB weighting of nighttime activities (each nighttime operation is equal to 10 daytime operations)
 - A review of the flight track analysis process and presentation of example radar and flight tracks as well as the existing noise monitoring locations. Discussion of flight track locations and densities and limitations of an 11 site noise monitoring system when evaluating noise conditions in broad areas around the airport.
 - Upcoming schedule

Questions & Comments from Technical Committee (TC) members:

Q: Will we be receiving minutes of this meeting?

A: A meeting summary will be prepared.

Q: Is there a process in place to reset the membership list of the Technical Committee? Will there be outreach to the TC members that have not attended either meeting?

A: The goal is to get active participation, so we will be contacting TC members that are not in attendance, after this meeting, to see if they are able to provide the input, feedback and resources needed throughout the course of the project.

Q: Does the minimum NEM area represent aircraft altitudes to 30,000 feet?

A: No, the NEM area represents at least 30,000 feet in horizontal ground distance from runway ends. It doesn't indicate height or elevation. 14 CFR Part 150 requires that flight tracks be reflected on the official noise exposure maps for a distance of at least 30,000ft from the runway ends. That is how the jurisdictions involved in this study were identified.

Q: Will the schools and future locations be considered for evaluation of zone of impact?

A: Yes, we are collecting that type of information as part of our process, and we will likely reach out to BCPS for additional information. There is a large GIS data collection component to the study. It's not only related to schools, but places of worship, hospitals and noise sensitive areas. It is important to know when a new school is being constructed so that when we are evaluating potential changes in flight tracks, we aren't moving a track over a future school location. We will also be conducting land use meetings with each of the jurisdictions identified to review the information we have collected. We want to make sure that we have the most recent information that is available and determine what might not be reflected in that data. We will be using the TC as a resource to determine the best contact for each of the jurisdictions.

Q: How does a person interpret the 65 DNL?

A: It is difficult to determine, because each person responds differently to sound exposure and the DNL metric is an annual, average day cumulative noise exposure that reflects the combination of sound exposure levels, frequency of overflights and the increased potential for annoyance based on time of day. In the last meeting we introduced this metric and explained how it is calculated. Single events are combined into hourly activity, and each nighttime operation (arrivals or departures between 10PM and 7AM) is weighted with a ten decibel penalty. That overall average for the average annual day establishes the 65 decibel contour. You can't actually measure it on a single event basis with a sound level meter because it is a cumulative average of all the aircraft activity that is occurring.

Q: That level (DNL 65 dB) is equated to what in our area?

A: The FAA uses the DNL metric to determine compatibility of various land uses with aircraft noise. Based on this metric, they identify the types of uses that would be compatible and not compatible within a given area. The DNL 65 dB metric is the level below which most noise sensitive land uses are considered compatible with aircraft noise. Because it is cumulative, the DNL metric factors in frequency of occurrence, sound level and time of day

as factors which influence compatibility. The Part 150 study will define where the DNL 65 dB contour falls relative to the communities around FLL.

Q: Does the aircraft activity forecast consider the runway reconstruction?

A: Yes. It is assumed the runway reconstruction would be completed by 2023, and the existing conditions analysis will be conducted based on the 2018 forecast. As a result, the contours will not be affected by the temporary change in operation resulting from the runway reconstruction.

Q: Where is the forecast from, and is there information about how it was developed?

A: The forecast was developed by the Broward County Aviation Department as part of its on-going Master Plan. The forecast scenario that we are using for the purpose of evaluating aircraft noise is the accelerated baseline forecast. The Master Plan website is www.fll.net/masterplan.

Q: How do the forecast numbers compare to the actual numbers reported by the airport?

A: The operations are very similar to, and within 10 percent of, the FAA's Terminal Area Forecast (TAF). If you reviewed the data from last year, the airport is right around what the FAA had projected in the TAF. The FAA does factor in some growth, but the accelerated baseline developed for the purpose of the Master Plan considers what happens if that growth occurs faster.

Q: Where can we also see the accelerated baseline forecast and what is the methodology for forecasting?

A: The methodology and accelerated baseline forecast is part of the Master Plan and there is a Master Plan public workshop coming up in October (Note – this has been rescheduled for early 2018).

Q: Will the study take into account all types of aircraft?

A: Yes, it considers all departures and arrivals. In addition to air carrier aircraft, there are smaller commuter aircraft, and other types of aircraft. The study includes not only all of the commercial service, and fixed-wing aircraft, but also helicopter activity at the airport.

Q: What hours are defined as daytime?

A: Daytime is from 7am to 10pm and nighttime is 10pm to 7am.

Q: What is the reason why the north runway has a higher use than the other runways?

A: The north runway is longer, there are more gates on the north side of the airport, and there is an interlocal agreement with surrounding jurisdictions to voluntarily maximize use the north runway as the preferred runway. The Consultant Team will review runway use in more detail in the NCP phase.

Q: May we use 2017 in the analysis because 2016 was an unusual year that was really warm? 2015 should also be included.

A: 2016 is used to establish the baseline operational conditions because there was a taxiway connector that hadn't been completed until late 2015. The 2016 runway and flight track use

is then applied to the 2018 and 2023 activity levels and adjustments are made based on expected changes. The modeling effort will use average weather data from the past 30 years.

Q: Any plan or concerns about reactivating the NW to SE runway or the cross-wind runway?

A: There are currently no plans to reactivate that runway. In fact, some of the pavement has even been removed from that former runway.

Q: Can existing runways handle larger aircraft like A380s?

A: No the airport cannot handle A380 aircraft. The airport is designed for Group V aircraft, and A380s, 747-800, and other large planes are Group VI aircraft. However, larger aircraft are still allowed to land for emergencies at the airport, such as being diverted from another airport due to weather. At this moment, the airport does not have the infrastructure to accommodate very large aircraft for scheduled service so we are not planning for Group VI aircraft.

Q: What is the geographic area captured by noise monitors?

A: Noise monitors represent individual points, so they capture noise related to overflights of that that specific point. That is why FAA requires noise modeling for the Part 150 Study - because monitors only capture noise at their specific points. It's not possible to set up monitors in a large enough volume to develop noise contours. There are also a variety of outside factors that affect noise measurements that may not be related to aircraft, such as wind and community noise sources.

Q: What is the significance of the colors in the flight track analysis?

A: In order to model the aircraft operations, we've started to separate the flights into groups of tracks coming from or heading to various locations. It could be flights coming from the southwest, west, or flights using a certain type of procedure coming into the airport. We separate those groups of tracks to analyze them individually. In this case, the colors are used to represent the variety of locations reflected; where they are coming from.

Q: Do you have any data for the North/Northeast runway?

A: We are analyzing all arrival and departure operations for all of the runways at FLL as part of the study.

Q: What is the mileage from the center to outer ring?

A: The overall area reflected on the sample radar track graphic is estimated to be approximately 30 miles; the ring that is depicted is approximately 30,000 feet from each runway end.

Q: It may be helpful to overlay the arrival procedures to help give a frame of reference.

A: The backbone of many of the tracks, where the heaviest concentrations are, are typically the published procedures that aircraft are flying as they leave the airport.

Q: What is the altitude difference as you span the length of the track analysis?

A: It varies. On the downwind near the airport, aircraft are around 5,000 feet. We are analyzing altitudes as part of the modeling effort.

Q: How come none of the flights arrive through the south runway?

A: The images and data presented are a sample that is representative of arrivals on the north runway. This is the approach that is the most heavily used at the airport and these tracks reflect just a portion of those that aircraft use when arriving to FLL. All runways and arrival/departure operations will be modeled, but the graphics have not yet been developed.

Q: When will departure analysis be available?

A: We are in the process of analyzing all of that information and the study will include all of the flight tracks that are used in the modeling. They will be presented with the percentages of use and aircraft information. We anticipate there will be approximately 300 tracks modeled for this study.

Q: How do you determine flight track dispersal?

A: We look at track density in GIS, then do dispersion based on that information. We are overlaying all of the radar data to create tracks and setting up dispersion so it as reflective of current conditions as possible.

Q: Would you consider changing procedures so that planes are required to stay above 5,000ft until descent?

A: New procedures are being implemented by the FAA (optimized profile descent) reduce fuel burn and noise while keeping aircraft higher longer. Recommendations in the NCP could include pursuing these types of procedures.

Q: There are very few noise monitors in the NW/NE surrounding areas of the airport. Why is that?

A: Because the aircraft used to depart straight out and now they are turning at a 15-degree diversion heading due to the south runway. In the NCP phase of the study, we will be evaluating an upgrade to the monitoring system and will consider recommending relocating the monitors so they are more reflective of current aircraft operations.

Q: How did the current monitors arrive at their locations?

A: Monitors have been at their locations for 20 years or more for various reasons generally associated with the historic configuration of the airfield.

Q: How long does the education portion of the study take and when will we get to the discussion and input portion?

A: The goal is to have draft noise contours by the time we reach the Technical Committee meeting #4, so we know what areas are incompatible. At that point, we will present material on noise compatibility and start the discussion and collection of ideas. We will look at noise mitigation, land use controls, and a variety of other measures.

Q: What would be a valuable use of time for TC members to help the process and bring some value to the conversation?

A: It would helpful if TC members would relay feedback, input, or concerns from the local and business community about airport operations and noise implications. We will be holding the first round of public workshops at five separate venues around the airport soon to solicit input from the community.

Actionable Next Steps:

As agreed upon by the TC members, the following meeting will be held at the Secret Woods Nature Center - Julia Hall, in November 2017.

Meeting Adorned at 12:00 PM

Appendix H-3 Technical Committee Meeting #3 March 17, 2018

Technical Committee

Meeting #3

Meeting Notice and

Attendance Roster

REMINDER FOR UPCOMING MEETING

NOTICE OF TECHNICAL COMMITTEE MEETING 14 CODE OF FEDERAL REGULATION (CFR) PART 150 AIRPORT NOISE AND LAND USE COMPATIBILITY STUDY FORT LAUDERDALE-HOLLYWOOD INTERNATIONAL AIRPORT

The Broward County Aviation Department (BCAD) formed a Technical Committee (TC) to support the Fort Lauderdale-Hollywood International Airport (FLL) 14 Code of Federal Regulations (CFR) Part 150 Study. TC membership includes appointed representation from all affected airport stakeholders (experts in land use, airport operations, air traffic control, etc.).

FLL Technical Committee Meeting

Date: Wednesday, March 7, 2018

Time: 10:00AM - 12:00PM

Location: Secret Woods Nature Center – Julia Hall; 2701 W. SR 84; Dania Beach, FL 33312

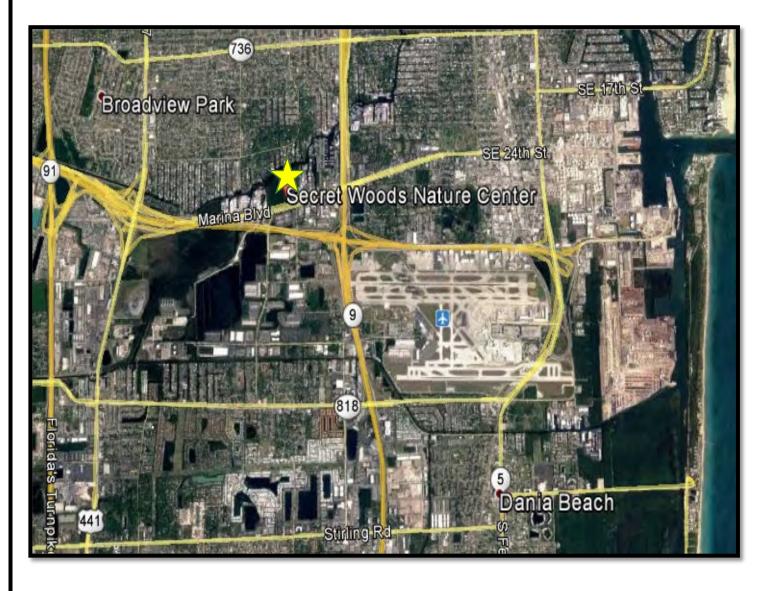
The Part 150 Study will quantify existing and future aircraft noise exposure levels, assess land use impacts according to federal standards, and seek ways to minimize those impacts to the greatest extent practical within 14 CFR Part 150 guidelines. Space for the TC meetings will be limited. However, they are open to the public, provided space is available. In order to promote efficient, balanced and constructive interaction among the TC members, discussions will be limited to TC members. There will be no public comment period. The public can provide comments at the upcoming public workshops and through the study website at <u>www.fllpart150.com</u>.



AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport 2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

Secret Woods Nature Center

Julia Hall 2701 W. SR 84 Dania Beach, FL 33312



From the East: Take FL-84 / Marina Mile Blvd. and turn right into the Secret Woods Nature Center.

From the West: Take FL-84 / Marina Mile Blvd. and make a U-turn after SW 26th Terrace. Turn right into the Secret Woods Nature Center.

From the North via I-95: Follow I-95 to South to Exit 25, FL-84 / Marina Mile Blvd. Head west on FL-84 / Marina Mile Blvd. and turn right into the Secret Woods Nature Center.

From the South via I-95: Follow I-95 North to Exit 25, FL-84 / Marina Mile Blvd. Head west on FL-84 / Marina Mile Blvd. and turn right into the Secret Woods Nature Center.

From the North via US-441: Follow US-441 South to FL-84 / Marina Mile Blvd. and make a U-turn after SW 26th Terrace. Turn right into the Secret Woods Nature Center.

From the South via US-441: Follow US-441 North to FL-84 / Marina Mile Blvd. and make a U-turn after SW 26th Terrace. Turn right into the Secret Woods Nature Center.



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Meeting #3

Date / Time: Wednesday, March 7, 2018 10:00 AM - 12:00 PM

Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Akagbosu	Chris	Director, Facility of Planning & Real Estate Dept.	Broward County School Board	754-321-2162		chris.akagbosu@browardschools.com	251 19
Annunziata	Jason	Station Manager	JetBlue	954 233-4722	646-942-2775	Jason. Annunziata@jetblue.com	
Anton	Mitch	Leadership Hollywood XLI	Hollywood Chamber of Commerce	954-646-3639	254 Le - 3639	scpanther 3@aol.com	toroan
Boutros	Kareen	Executive Director	Broward Workshop	954-462-9112		kareen@browardworkshop.com	
Cannicle	Winston	Noise & Environmental Officer	Broward County Aviation Department - Airport Noise Office	954-359-6181		WCANNICLE@broward.org	140
Castillo (A)	Will	Airport Planning Manager	Broward County Aviation Department - Airport Noise Office	954-359-2291		wcastillo@broward.org	
Anne	Castro		Study Coordination Committee			annecastro@msn.com	
Cooley (A)	Sid		FLL Airport Traffic Control Tower	954-921-9200		sidney.cooley-jr@faa.gov	
Coutain, Jr.	Ken	Airport Planner	Broward County Aviation Department - P/D	954-359-1599		kcoutain@broward.org	
DelNegri	Theodore (TJ)	Tower Manager	FLL Airport Traffic Control Tower	954-921-9201	9-870-1674	theodore.delnegri@faa.gov	OINT
Dokuchitz	Peter	Principal Planner / City of Plantation	City of Plantation	954-797-2265		pdokuchitz@plantation.org	Shaplitz
Eastman	John	John Eastman	Town of Southwest Ranches	954-465-8383		john426@bellsouth.net	AUC
Flint	John R.	City Manager / CEO	City of Weston	954-385-2000		jflint@westonfl.org	Kan
Gaenicke	Sierra		VHB			sgaenicke@vhb.com	
Gale	Mark	Director of Aviation	Broward County Aviation Department			mgale@broward.org	
Gertsen (A)	Alex	Director of Airports and Ground Infrastructure	NBAA	202-737-4477		Agertsen@nbaa.org	
Govin	Yasmin		Broward County Aviation Department - Airport Business	954-359-6145		ygovin@broward.org	
Hemmerle	Mark	Front Line Manager	South Florida Flight Standards Division (FSDO)	954-641-6015		Mark.W.Hemmerle@faa.gov	
Henry	Rebecca	Assistant Manager	Federal Aviation Administration Orlando Airports District Office	407-484-4225		Rebecca.Henry@faa.gov	Referry
Hildebidle	Bob	Air Traffic Manager A	Miami Air Traffic Management/TRACON	305-869-5402	954-292-6515	Bob.Hildebidle@faa.gov	- ynoury.
Hoffman	Kevin	Corporate Contact	UPS	502-329-3913		khoffmann@ups.com	



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Meeting #3

Date / Time: Wednesday, March 7, 2018 10:00 AM - 12:00 PM

Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Holste (A)	Phillip	Assistant Town Administration	Town of Davie	954-797-1034		Phillip_Holste@davie-fl.gov	
Hotte	Anne	CEO/Executive Director	Greater Hollywood Chamber of Commerce	954-923-4000		anne@hollywoodchamber.org	
Kaine (A)	Brad	Director of Public Services	City of Dania Beach	954-924-6808		bkaine@daniabeachfl.gov	
LaFerrier	Marc	Director, Community Development	City of Dania Beach	954-924-6805 x3643		mlaferrier@ci.dania-beach.fl.us	gle
Lemack	Richard	Town Administrator	Town of Davie	954-797-1034		Richard_Lemack@davie-fl.gov	-
Lindblade, CAE	Dan	CAE - President and CEO	Greater Fort Lauderdale Chamber of Commerce	954-462-4911		dan@ftlchamber.com	1.0
Luedtke	Gary		ANAC	954-966-8013		gluedtke@gmail.com	Kang Mahan
Lundrigan	Julia	Delta Flight Ops	Delta Airlines	404-773-2882	678-427-1350	Julia.lundrigan@delta.com	pue 27
Mertens-Black	Lorie	Chief Civic Affairs Officer	City of Hollywood	954-921-3599		Imertens-black@hollywoodfl.org	Orn Bla
Meyer	Gregory	Public Information Officer	Broward County Aviation Department - PIO	954-359-6116		GMeyer@broward.org	the mene
Modrich (A)	Mark	AA Pilot/Resident	Town of Southwest Ranches	954-540-4854	954-252-5040	mmodrich@aol.com	
Morrissey	Mary	Senior Manager	FedEx	954-359-7432		mmmorrissey@fedex.com	
Nazzaro	Tom	Airport Manager, Aviation	Broward County Aviation Department - Airport Business	954-359-6821		tnazzaro@broward.org	
Nonnemacher (A)	Michael	Acting Assistant Executive Director	Broward County Aviation Department - Airport Operations			mnonnemacher@broward.org	
Ostendorf	Brad	Environmental Compliance Manager	Broward County Aviation Department	954-359-2395	954-829-0867	bostendorf@broward.org	
Pacitto (A)	Mike	Director of Planning	Broward County Aviation Department - Airport Manager's Office	954-560-0766		MPPACITTO@broward.org	Mad
Pluzhnyk Evans	Angelina	Chief Civic Affairs Officer	City of Fort Lauderdale	561-715-9112 -C	561-715-9112 -C	lina@chyden.net	1000 0000
Pokryfke	John	Asst. Director of Operations, Aviation	Broward County Aviation Department - Airport Operations	954-359-6475		jpokryfke@broward.org	
Rames (A)	Geoff	Lauderdale Isles Water Management District	City of Fort Lauderdale	954-327-9095		grames.licia@gmail.com	51
Rebholz	Edward		City of Fort Lauderdale	973-476-5609		ed@edrebholz.com	Ed
Robbin	Sam	CEO	National Jets/Broward Workshop	954-868-2166		samrobbin@nationaljets.com	



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Meeting #3

Date / Time: Wednesday, March 7, 2018 10:00 AM - 12:00 PM

Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Shane	Randie	CEO/Executive Director	Greater Dania Beach Chamber of Commerce	954-926-2323		rshane@daniabeachchamber.org	
Shiver	Michael	General Manager	Spirit Airlines	954-359-0933		michael.shiver@spirit.com	
Siegel (A)	Allan	Public Informations Officer	Broward County Aviation Department	954-359-6978		Asiegel@broward.org	
Siwinski	Ben	SR. PLANNER	VBH VILLS		727 631(800	BSiwinski@VHB.com	BAN
Solley	Edwin	Manager ATC Systems	Southwest Airlines	407-850-1563	407 3998109	Edwin.solley@wnco.com	Edion Sello
Swindell	Bob	President and CEO	Greater Fort Lauderdale Alliance Economic Development Agency	954-524-3113		bswindell@gflalliance.org	
Taylor	Charles	Intergovernmental Affairs Manager	Town of Davie	954-797-1034	(9) 599-1813	Charles_Taylor@davie-fl.gov	tis
Van Valkenburgh (A)	Debra		ANAC			perhelion@hotmail.com	
Voos	Gregory	South Regional Representative	NBAA	202-737-4475		gvoos@nbaa.org	
Wood	Matt	Growth Management Director	City of Cooper City	954-434-4300		MWood@coopercityfl.org	
Wu	Kevin	Airport Manager	Broward County Aviation Department - OPS	954-359-1216	954-279-4740	kwu@broward.org	



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee

Date / Time: Wednesday March 7, 2018 10:00 AM - 12:00 PM

First & Last Name	Title	Company Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Will CHORILO		BCAD	VZZQ1			and
Rjan Goldman		BCAD	×6216		rgoldman@broward.org	RG
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Ninsion CAnnicle	ENU. GWp.	BCAN	X6181		Warminic & C broward. ong	Ma
Pichad C Aranger			994-591-1741		RCP 37 e JUND. CON	10
Robert Mentzer	Priocipal Cons	H MAM H	281-852-3156		Fmentzer@hmmh.com	Theolog
Alex Michaels	Airport Planner	McFarland Johnson			a michaels Dinjine.com	a. michael
KenCauteun te	Anpert Plemer	BLAD	1 159.9	954 2236 6447	Kcoutain Officiawerd. arg	49.00
Necia Montagemer- ERIC RAM	7 Resident			954 249.6060		1.Most
ERIC RAM	ANAC	ANAC				A
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Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee

Date / Time: Wednesday March 7, 2018 10:00 AM - 12:00 PM

First & Last Name	Title	Company Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Kaven Friedman Kallie Glover	Senior Planner	BCAD				Acc
Kallie Glover	Performance Engine Disport ops	Delta			kalena, glover Edelta.com	Mali Deten Deuctyrry Male
Alter Bouchard	Dicport OPS MEX	Hinobereal county Ovintian Outharity	813-870-7843			Apple Developer
BEN SUKENSEN						1/h/

Technical Committee

Meeting #3

Materials Presented at Meeting



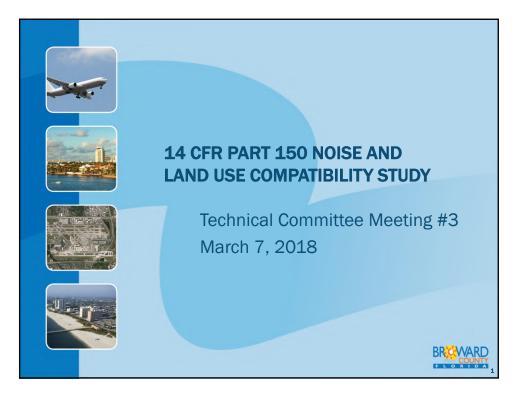


AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport 2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

Meeting Agenda Technical Committee Meeting No. 3 14 CFR Part 150 Study Fort Lauderdale-Hollywood International Airport

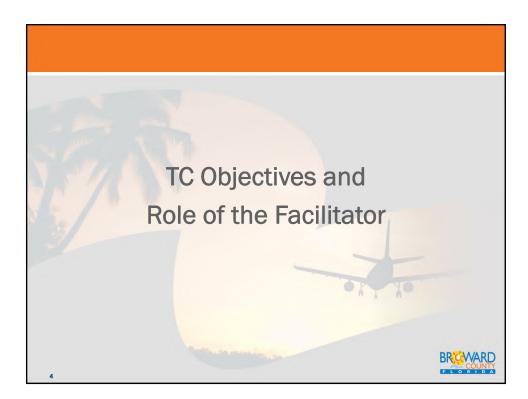
March 7, 2018 – 10AM to 12PM EDT

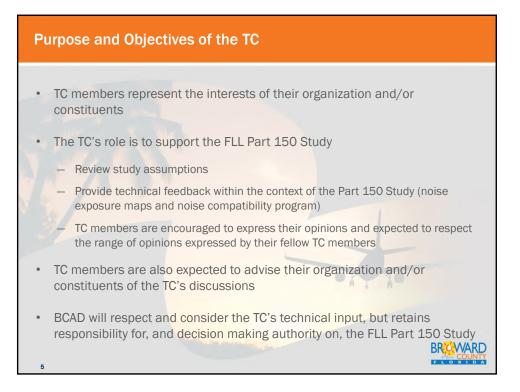
- 1. Introductions
- 2. Review of the Role of the TC Meeting Facilitator
- 3. Review of Prior TC Meetings
- 4. Public Workshop Summary
- 5. Land Use Data Collection
- 6. Aircraft Activity
- 7. Runway Use
- 8. Flight Track Analysis
- 9. Future TC Meetings
- 10. Questions from TC Members
- 11. Adjourn



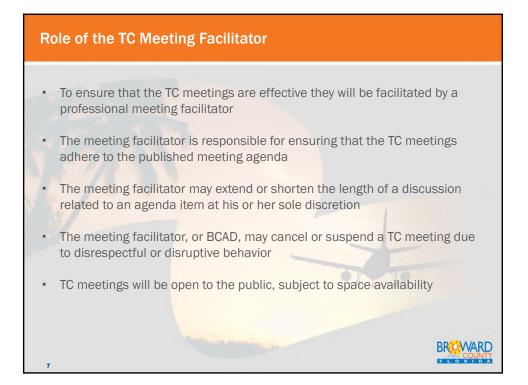
Agenda	
 Introductions Review of the Role of the TC Meeting Facilitator Review of Prior TC Meetings Public Workshop Summary Land Use Data Collection Aircraft Activity Runway Use Flight Track Analysis Future TC Meetings Questions from TC Members 	
• Adjourn	



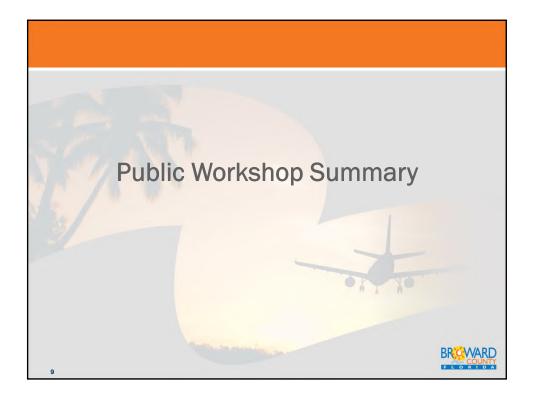




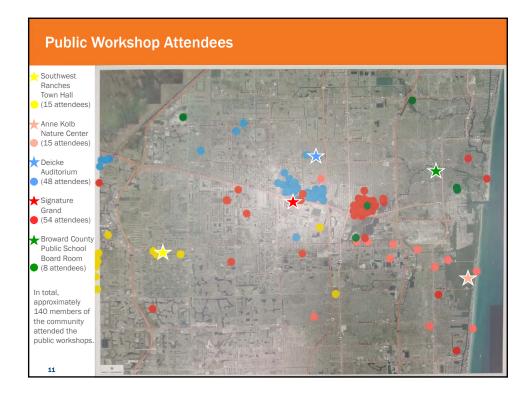
TC Members	
 BCAD ANAC Southwest Airlines Delta Airlines JetBlue Spirit Airlines UPS NBAA Greater Fort Lauderdale Chamber of Commerce Greater Hollywood Chamber of Commerce Greater Dania Beach Chamber of Commerce Greater Fort Lauderdale Alliance Economic Development Agency 	 Broward Workshop City of Dania 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 School Board FAA - Orlando Airports District Office Miami Air Traffic Management/TRACON FLL Airport Traffic Control Tower South Florida Flight Standards Division (FSDO)











Public Workshop Summary

Newspaper Advertisements

- Save the Date Notices (Sun Sentinel–Sunday 10/22, and Wednesday through Saturday 10/25 – 10/28)
- Full Announcement English (Sun Sentinel—Sunday 10/29, Sunday 11/5 and Sunday 11/12)
- Full Announcement Spanish (El Sentinel–Thursday 11/2 and Thursday 11/9)

Other Media

12

- FLL BCAD Website (Meetings Tab)
- Broward County Electronic Bulletin Board
- Broward County October 27th Newsletter
- FLL BCAD Twitter Site
- FLL BCAD Facebook Site
- Project Website (<u>www.fllpart150.com</u>)
- Various Jurisdiction Websites

BROWARD



Locations

- Monday, November 13, 2017 Southwest Ranches Town Hall Selected for its proximity to Weston, Southwest Ranches and Cooper City.
 - 8 comment letters and 2 verbal comments were received.
- Tuesday, November 14, 2017 Anne Kolb Nature Center Selected for its proximity to Dania Beach and Hollywood.
 - 4 comment letters and 4 verbal comments were received.
- Wednesday, November 15, 2017 Deicke Auditorium Selected for its proximity to Plantation.
 - 16 comment letters and 5 verbal comments were received.
- Thursday, November 16, 2017 Signature Grand Selected for its easy access from greater Fort Lauderdale including Dania Beach, Davie, Plantation Fort Lauderdale and Weston.
 - 50 comment letters and 6 verbal comments were received.
- Friday, November 17, 2017 Broward County Public School Board Room Selected for its easy access from Fort Lauderdale.
 - 4 comment letters and no verbal comments were received.

Public Workshop Summary

Comments

13

- 82 written and 17 verbal comments received at the public workshops.
- 25 comments were received via the website between the start of the public workshops through the end of the comment period.
- Two comment letters received via mail.

Concerns

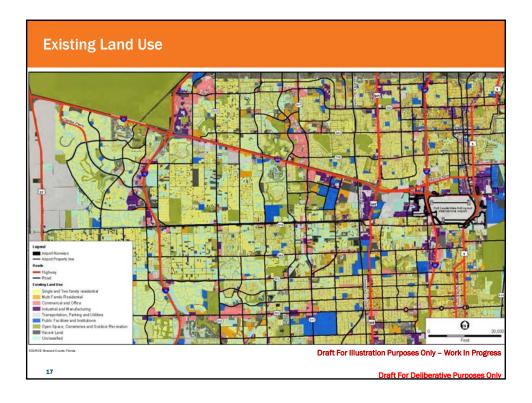
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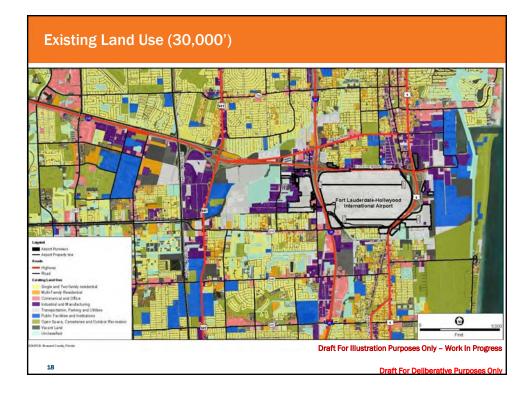
- Early morning and late night flights
- Changes in aircraft flight paths occurring after opening of the new runway
- Nighttime use of south runway
- Low altitude of overflights
- High frequency of overflights
- Overflight impacts on horses

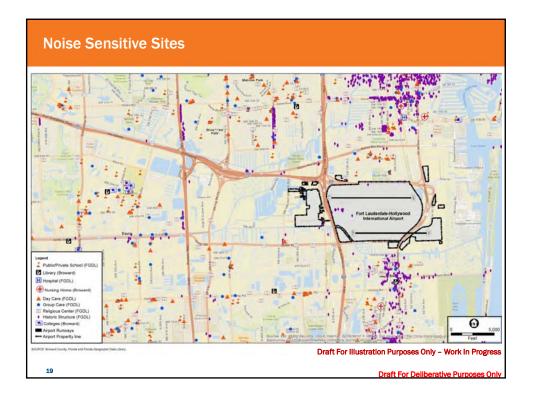
BROWARD

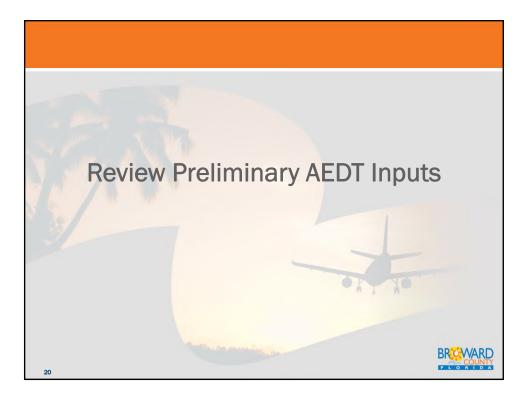


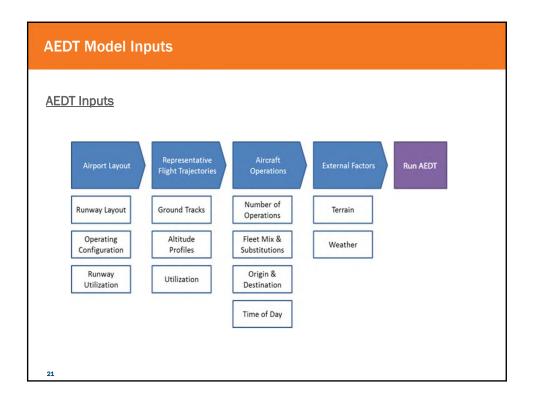


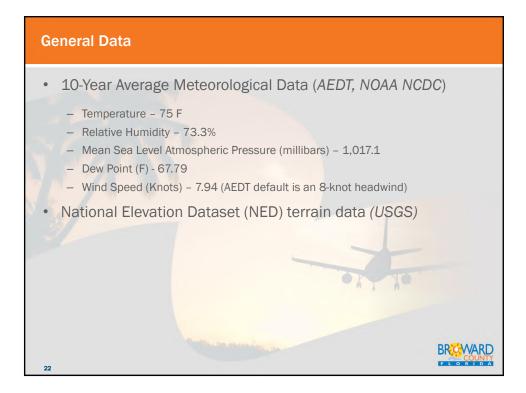














Baseline Cond	ition A	ircraft O	peration	s (2018)		
Ai	rcraft Op	perations	by Categor	ry and Time	e of Day	
		Arrivals			Departures	
Category	Day	Night	Total	Day	Night	Total
Wide-Body Aircraft	72.38%	27.62%	100.00%	80.83%	19.17%	100.00%
Narrow-Body Aircraft	82.47%	17.53%	100.00%	88.38%	11.62%	100.00%
Turboprop Aircraft	97.87%	2.13%	100.00%	97.15%	2.85%	100.00%
Propeller Aircraft	96.74%	3.26%	100.00%	94.58%	5.42%	100.00%
GA Jet	86.54%	13.46%	100.00%	91.91%	8.09%	100.00%
Helicopter	92.45%	7.55%	100.00%	96.30%	3.70%	100.00%
All Aircraft	84.50%	15.50%	100.00%	89.52%	10.48%	100.00%
	201	8 Aircraft	t Operatior	ns by Categ	jory	
	Cate	Category		I Operations		
	Wide	Wide-Body Aircraft		6,295		
	Narro	Narrow-Body Aircraft		262,449		
	Turbo	Turboprop Aircraft		34,120		
	Prop	Propeller Aircraft		7,454		
	GA Je	GA Jet		24,520		
	Helic	opter		162		
	Gran	d Total		335,000		
	Sourc	e: ANOMS, 2010	6 and Ricondo & /	Associates, 2017.		
24					Draft For D	eliberative Purpos

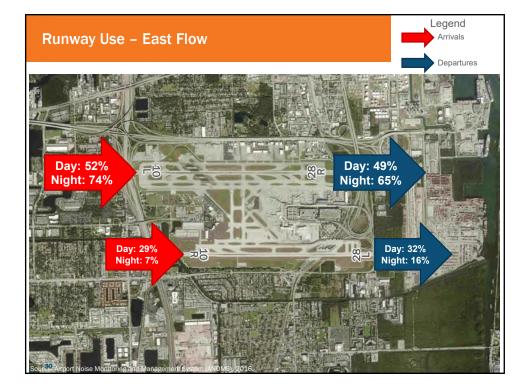
Aircraft	Total Ops	Aircraft	Total Ops	Aircraft	Total Ops	Aircraft	Total Ops
A320-232	71.448.9	757RR	1.453.9	CNA560E	196.7	B430	13.3
737800	37.955.4	EMB145	1.334.5	GIIB	168.9	B206L	12.1
737700	35.317.8	GV	1.282.6	DC1030	154.4	DHC8	10.9
A321-232	29,233.0	757300	1,043.7	767JT9	136.3	777200	10.9
A319-131	20,690.5	7878R	966.5	ECLIPSE500	125.5	B407	9.7
EMB190	20,320.0	CRJ9-ER	925.4	CNA20T	124.3	R22	9.7
SF340	18,045.6	A300-622R	923.0	MD11PW	120.7	737N17	8.4
A320-211	13,359.3	COMSEP	860.3	FAL20	107.4	CL601	8.4
CNA208	8,000.8	DC1010	841.0	PA30	96.5	DC93LW	8.4
LEAR35	7,694.4	MU3001	789.1	737400	92.9	SA350D	8.4
757PW	6,980.1	CNA560U	756.5	MD82	91.7	SA355F	8.4
737300	6,382.8	CNA680	703.4	A310-304	65.2	747400	7.2
MD83	4,706.9	IA1125	701.0	1900D	55.5	767CF6	7.2
DHC6	4,040.8	BD-700-1A11	629.8	777300	39.8	EMB120	7.2
CL600	3,985.3	GASEPV	623.8	727EM1	38.6	7773ER	6.0
BEC58P	3,844.2	CNA172	617.8	A300B4-203	36.2	PA28	6.0
CNA750	2,568.8	GASEPF	576.7	PA31	27.8	B212	6.0
737500	2,338.4	A330-343	547.8	767400	25.3	B206B3	3.6
GIV	2,332.3	EMB14L	486.3	A109	25.3	H500D	3.6
717200	2,206.8	EMB170	471.8	SD330	22.9	7478	2.4
CNA55B	2,179.1	CNA206	435.6	EC130	22.9	CNA182FLT	2.4
767300	2,153.7	BD-700-1A10	419.9	R44	20.5	DHC-2FLT	2.4
PA42	1,877.4	CNA510	395.8	727EM2	19.3	EMB175	2.4
DHC830	1,710.9	CNA441	348.7	LEAR25	16.9	T-38A	2.4
CNA500	1,592.7	CIT3	279.9	S76	16.9		
CNA560XL	1,578.2	MD11GE	249.8	DC3	15.7		
MD9028	1.523.9	CNA182	220.8	MD81	14.5		

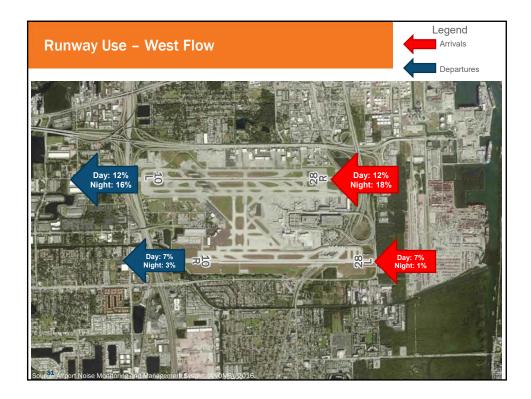
Forecast for the FLL 14 CFR Part 150 Study Aport Pioning Manager 2005 Available Department 2006 Available Departwent 2006 Available Department 2006 Availa	• FAA ap		al: of Master Plan selerated Baseline	ORLANDO AIRPORTS DISTRICT OFF State invest of Tamportation Meministration Administration Administration April 10, 2017 Mr. William Castillo
Fiscal Year FAA TAF IMPO Accelerated Baseline Forecasts Forecasts for the 14 Code of Foderal Regulations (CFR) Part 150 Bs for the For Ludeet Holywood Hermatonul Arport (FL). 2017 304,590 329,300 The FAA notes that the Accelerated Baseline Forecast to FL). On-January 13, 2017, the Federal Available Advisories Advisories and for the purpose of establishing fac requirements. 2018 3111,559 335,000 The FAA nas determined that the Accelerated Baseline Forecast to FL). The FAA has determined that the Accelerated Baseline Forecast is consistent with PARE Forecast (FAF) published in January. 2017. 10 311,559 335,000 The FAA has determined that the Accelerated Baseline Forecast is consistent with PARE forecast (FAF) published in January. 2017. 11 FAA has determined that the Accelerated Baseline Forecast is consistent with PARE forecast (FAF) published in January. 2017. The FAA has determined that the Accelerated Baseline Forecast is consistent with PARE forecast is the accelerated Baseline Forecast is consistent with PARE forecast is the accelerated Baseline Forecast is consistent with PARE forecast is the accelerated Baseline Forecast is consistent with PARE forecast is the accelerated Baseline Forecast is consistent with PARE forecast is the Accelerated Baselin			LL 14 CFR Part	Broward County Availation Department 2200 SW 49 ⁵ Street, Suite 101 Dama Beach, Findra 33312 Dear Mr. Castillo: RE: Fort Lauderdale Holywood International Airport, Fort Lauderdale, FL
2017 304,590 329,300 The FAA notes that the Accelerated Baseline Forecast varies less than 10 percent Area Protein (TAP) published in January 2017. 2018 311,559 335,000 The FAA has determined that the Accelerated Baseline Forecast is consistent with FAA's 2016 Term Area Forecast (TAP) published in January 2017. Image: Protein CAP Area Forecast (TAP) published in January 2017. The FAA has determined that the Accelerated Baseline Forecast is consistent with FAA's and therefore, we approve the use of the Accelerate Baseline Forecast (TAP for FLL, and therefore, we approve the use of the Accelerate Baseline Forecast (TAP In 150 Study). If you have any questions, please feel free to contact me at (407) 812-6331, exi. 130	Fiscal Year	FAA TAF		Forecasts for the purposes of the 14 Code of Federal Regulations (CFR) Part 150 S for the Fort Laudentale-Hollywood International Ariport (FLL). On January 13, 2017, the Federal Aviation Administration (FAA) approved the Bas Forecast for FLL and accepted the Accelerated Baseline Forecast prepared in Master Plan Update for sensitivity purposes and for the purpose of establishing to
2018 311,559 335,000 The FAA has determined that the Accelerated Baseline Forecast is consistent with FAA's most recent TAF for FLL, and therefore, we approve the use of the Accelera Baseline Forecast the nonjoing FLL and therefore, we approve the use of the Accelera Baseline Forecast The nonjoing FLL and therefore, we approve the use of the Accelera Baseline Forecast The nonjoing FLL and therefore, we approve the use of the Accelera Baseline Forecast The nonjoing FLL and therefore, we approve the use of the Acceleration If you have any questions, please feel free to contact me at (407) 812-6331, exi. 130	2017	304,590	329,300	The FAA notes that the Accelerated Baseline Forecast varies less than 10 percent the 5 year period and 15 percent in the 10 year period from the FAA's 2016 Ten
	2018	311,559	335,000	The FAA has determined that the Accelerated Baseline Forecast is consistent wit FAA's most recent TAF for FLL, and therefore, we approve the use of the Accele
	2023	343,194	364,765	If you have any questions, please feel free to contact me at (407) 812-6331, ext. 13 Sinceredy,



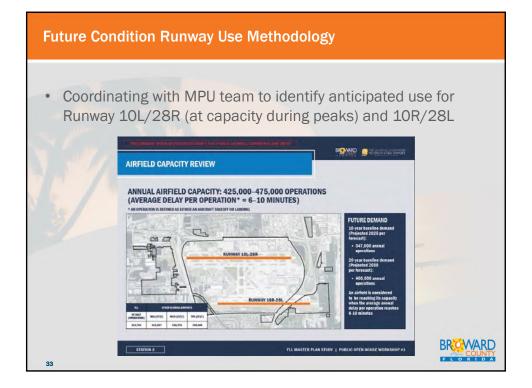
seline Condition Arrival Runway Use							
	Daytim	e Arriva	ls				
Aircraft Category	10L	10R	28L	28R	Total		
Wide-Body Aircraft	74.63%	4.18%	1.27%	19.93%	100.00%		
Narrow-Body Aircraft	55.21%	25.43%	6.32%	13.03%	100.00%		
GA Jet	50.23%	29.82%	8.59%	11.37%	100.00%		
Turboprop Aircraft	40.56%	40.31%	8.94%	10.18%	100.00%		
Propeller Aircraft	21.66%	59.68%	13.28%	5.39%	100.00%		
Helicopter	35.42%	18.75%	29.17%	16.67%	100.00%		
	Nighttime Arrivals						
Aircraft Category	10L	10R	28L	28R	Total		
Wide-Body Aircraft	81.16%	3.05%	0.28%	15.51%	100.00%		
Narrow-Body Aircraft	73.75%	7.38%	1.24%	17.64%	100.00%		
GA Jet	71.19%	8.20%	1.96%	18.65%	100.00%		
Turboprop Aircraft	71.38%	8.88%	0.99%	18.75%	100.00%		
Propeller Aircraft	59.26%	21.30%	3.70%	15.74%	100.00%		
Helicopter	25.00%	50.00%	0.00%	25.00%	100.00%		
Source: ANOMS, 2016.							

	Daytime	Departu	ires		
Aircraft Category	10L	10R	28L	28R	Total
Wide-Body Aircraft	77.85%	1.52%	0.14%	20.48%	100.00%
Narrow-Body Aircraft	47.82%	32.96%	7.10%	12.13%	100.00%
GA Jet	56.98%	23.55%	5.87%	13.60%	100.00%
Turboprop Aircraft	53.13%	28.06%	5.00%	13.80%	100.00%
Propeller Aircraft	34.57%	46.95%	10.06%	8.43%	100.00%
Helicopter	40.79%	42.11%	10.53%	6.58%	100.00%
	Nighttime	Depart	ures		
Aircraft Category	10L	10R	28L	28R	Total
Wide-Body Aircraft	78.16%	2.00%	0.00%	19.84%	100.00%
Narrow-Body Aircraft	63.67%	16.37%	3.72%	16.23%	100.00%
GA Jet	66.54%	14.34%	2.33%	16.79%	100.00%
Turboprop Aircraft	61.90%	15.29%	2.51%	20.30%	100.00%
Propeller Aircraft	69.03%	18.06%	2.58%	10.32%	100.00%
Helicopter	100.00%	0.00%	0.00%	0.00%	100.00%

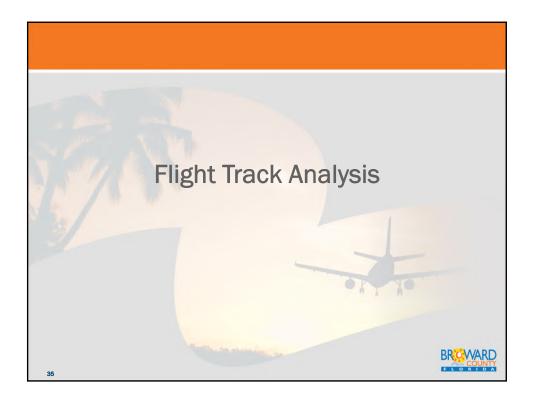


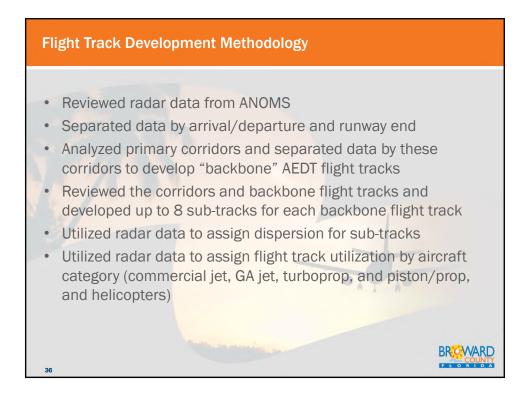


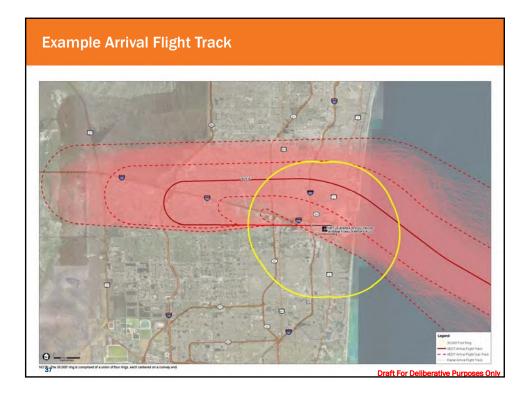
	-							
Runway Usage								
Operation Type	Runway	Day	Night	Grand Total				
		North R	unway					
	10L	52%	74%	55%				
	28R	12%	18%	13%				
Arrivals	Total	64%	92%	68%				
Annvais		South R	unway					
	10R	29%	7%	26%				
	28L	7%	1%	6%				
	Total	36%	8%	32%				
		North R	unway					
	10L	49%	65%	51%			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

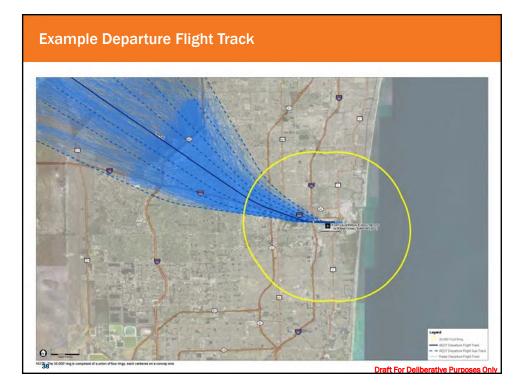


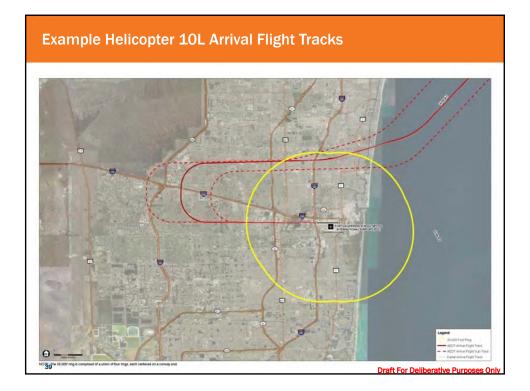


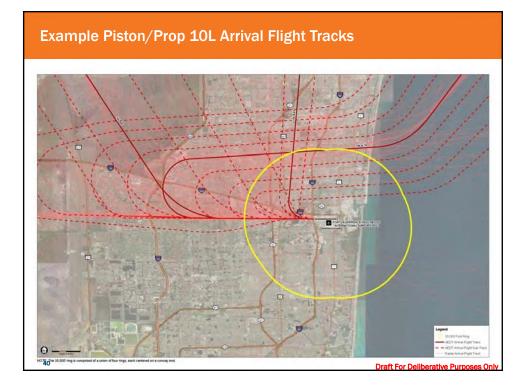


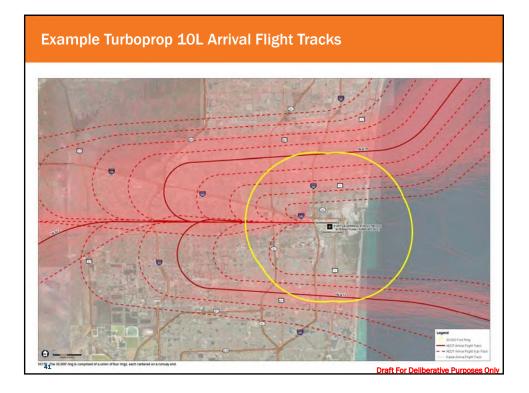


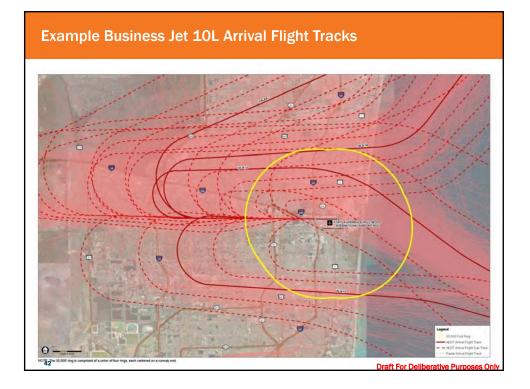


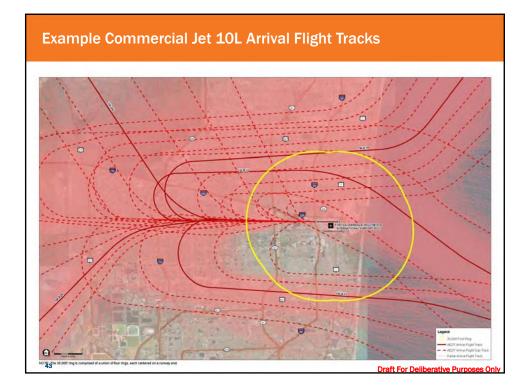




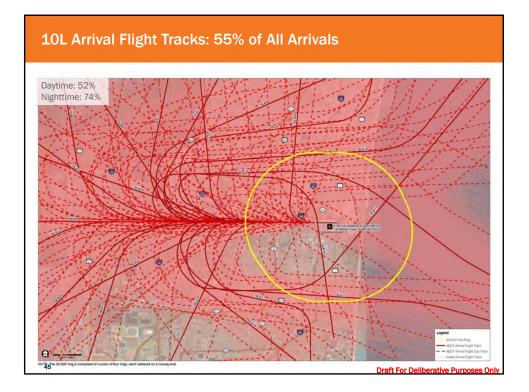


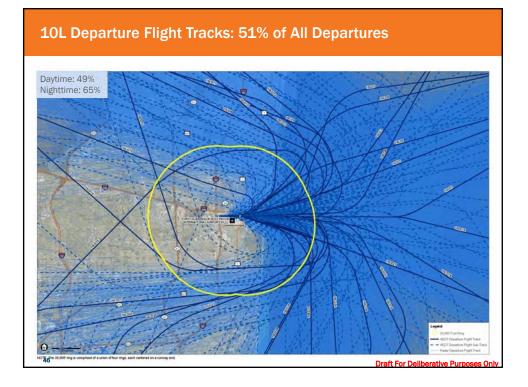


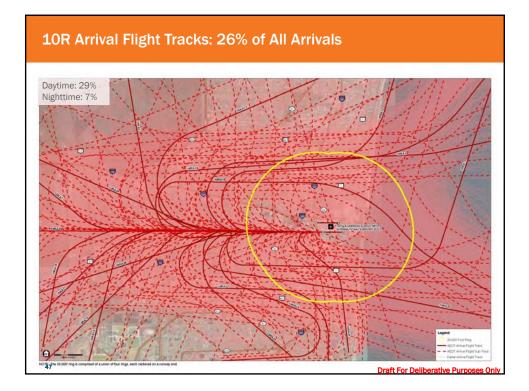


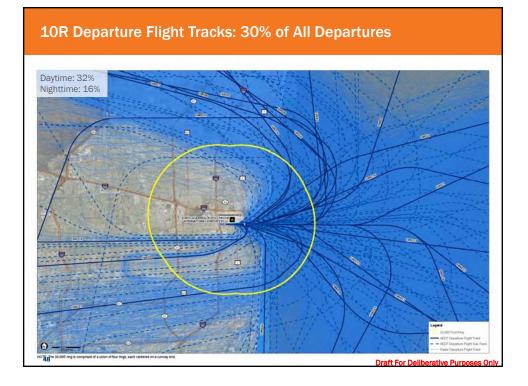


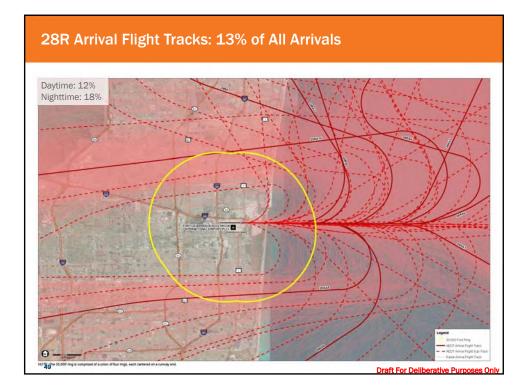
ht Tracks			
	Arrival	Tracks	
Runway	Backbone Tracks	Sub-Tracks	Total
10L	25	102	127
10R	29	103	132
28L	15	50	65
28R	10	41	51
Total	79	296	375
	Departur	re Tracks	
Runway	Backbone Tracks	Sub-Tracks	Total
10L	31	128	159
10R	24	95	119
28L	25	87	112
28R	23	81	104
Total	103	391	494
			Draft For D

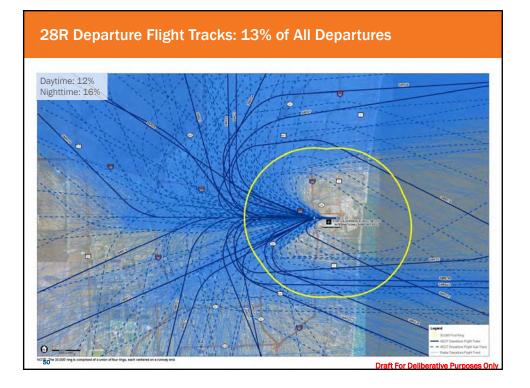


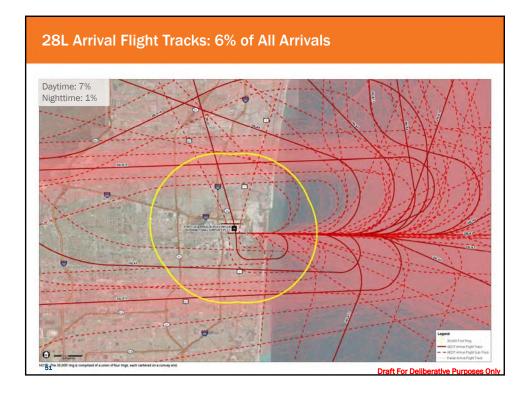


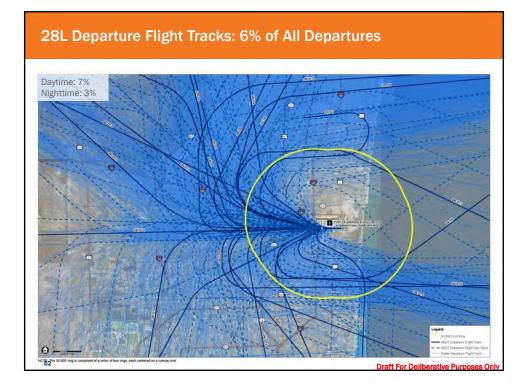


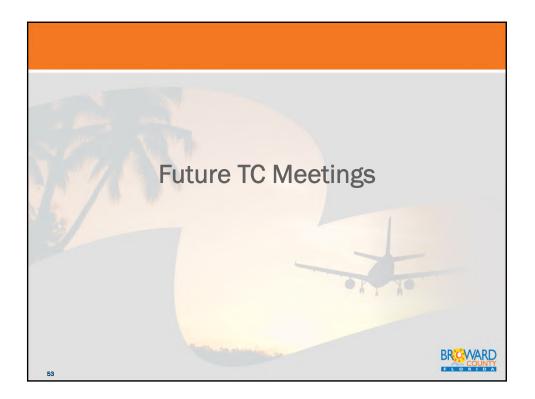






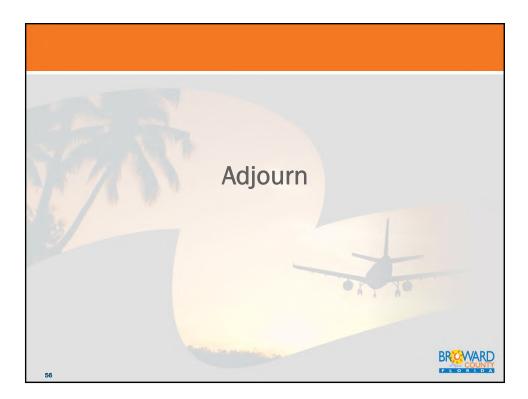












Technical Committee

Meeting #3

Meeting Summary

Fort Lauderdale-Hollywood International Airport 14 CFR Part 150 Noise and Land Use Compatibility Study Technical Committee Meeting #3 March 7, 2018

Meeting Notes

Committee Members in Attendance

Chris Akagbosu - Broward County Public Schools Gary Luedtke - Airport Noise Advisory Committee (ANAC) (BCPS) Mitch Anton - Hollywood Chamber of Commerce Julia Lundrigan – Delta Airlines TJ DelNegri – FLL Air Traffic Control Tower Lorie Mertens-Black - City of Hollywood Peter Dokuchitz - City of Plantation Geoff Rames - City of Fort Lauderdale John Eastman - Town of Southwest Ranches Edward Rebholz - City of Fort Lauderdale John R. Flint – City of Weston Edwin Solley – Southwest Airlines Rebecca Henry - Federal Aviation Administration Charles Taylor – Town of Davie Marc LaFerrier - City of Dania Beach

Other Members in Attendance

Winston Cannicle – BCAD Will Castillo – BCAD Ken Coutain, Jr. – BCAD Karen Friedman – BCAD Kallie Glover – Delta Airlines Ryan Goldman – BCAD Gregory Meyer – BCAD Brad Ostendorf – BCAD Mike Pacitto – BCAD

Agenda and Key Topics:

- Welcome
- Review of the Role of the Technical Committee (TC) Meeting Facilitator
- Review of Prior TC Meetings
- Public Workshop Summary
- Land Use Data Collection
- Aircraft Activity
- Runway Use
- Flight Track Analysis
- Future TC Meetings

Meeting Summary:

- The Technical Committee convened for its third meeting shortly after 10:00 AM on March 7, 2018 at the Secret Woods Nature Center in the Julia Hall.
- The meeting began with re-introductions of participants.
- Ground rules for the TC members were reviewed by the facilitator. TC members were encouraged to express their opinions and expected to respect the range of opinions expressed by their fellow TC members. TC members were also expected to advise their organization and/or constituents of the TC's discussions.
- Attending members of the public were advised of ways in which they could submit comments including the project website (<u>www.fllpart150.com</u>) and at future public meeting (dates TBD).
- A presentation of key topics was given by Michael Arnold, Part 150 Project Director representing the ESA consulting team. The presentation included the following information:
 - A review of the material presented in the prior TC meetings.
 - A summary of the five public workshops held in November 2017.
 - Overview of the land use data collection process, including presentation of draft existing land use graphics.
 - A review of FAA's noise model, AEDT, and modeling inputs:
 - 2018 and 2023 aircraft activity levels and forecast, including the 2018 aircraft fleet mix.
 - Individual runway use in CY 2016 and flows including the heavily weighted east flow operation, which will be used for 2018.
 - Daytime/Nighttime operations (10:00 pm 7:00am) usage by individual runways, operation type (arrival or departure), and aircraft type. Potential for greater annoyance and 10 dB weighting of nighttime activities (each nighttime operation is equal to 10 daytime operations) to account for the increased annoyance.
 - A review of the flight track analysis process and presentation of radar and flight track graphics for all aircraft operations.
 - Future meetings

Questions & Comments from Technical Committee (TC) members:

Q: *Gary Luedtke (ANAC)*: The City of Dania Beach receives about 90% of the Airport noise. No meeting was held in Dania Beach, however there are facilities available to use; in general, residents chose not go to alternative locations.

A: *Mike Arnold (ESA):* Locations in Dania Beach were not available at that time; however, four of the five meeting locations were within 5 miles of Dania Beach. We will consider Dania Beach locations for future meetings.

Q: *Gary Luedtke (ANAC):* What are the designated nighttime hours?

A: Mike Arnold (ESA): Nighttime operations are from 10pm to7am.

Q: *Gary Luedtke (ANAC):* In 2013, there was only one runway in operation (the North runway) which had capacity for 255,000 annual operations.

A: *Mike Arnold (ESA):* Aircraft may be able to operate, but they are at risk for higher delay.

Q: *Julie Lundrigan (Delta Airlines):* How many aircraft/number of operations could use the runways (with/without penalty)? And which aircraft need the North runway/how many could move to the South runway?

A: *Mike Arnold (ESA):* The next step in the Part 150 evaluation will determine estimated future runway use based on the factors mentioned.

Q: *Edward Rebholz (City of Fort Lauderdale):* Can you clarify the backbone track and dispersed/sub tracks? Are the sub tracks standard deviations?

A: *Mike Arnold (ESA):* The solid lines are the backbone, and dotted lines are sub tracks.

A: *Autumn Ward (ESA):* It is not weighted the same as standard deviation, each track may be weighted differently

Q: *Edward Rebholz (City of Fort Lauderdale):* How do you get more departure tracks than arrival tracks? Are arrivals more constrained?

A: Mike Arnold (ESA): It is based on distributions, more tracks, not operations

Q: *Edward Rebholz (City of Fort Lauderdale):* Do the tracks also consider altitude of aircraft/elevation?

A: *Mike Arnold (ESA):* ANOMS data provides x, y, and z coordinates (flight track location and elevation).

Q: *Chris Akagbosu (BCPS):* The Nova school system is concerned about direct overflights of schools; can you tell what the aircraft altitudes and noise levels are/would be at Nova schools? Will you need feedback from the school administration to determine potential noise impacts/mitigation measures?

Which of the aircraft fly over Nova schools, do you know the height and sound levels at these schools? My daughter attends the Nova School and I'm concerned about the noise levels.

A: Winston Cannicle: approximately 3 miles due west about 900-1000 ft. in altitude

Q: Chris Akagbosu (BCPS): Are you looking to modify noise levels as part of study?

A: Mike Arnold (ESA): Yes.

Q: *Chris Akagbosu (BCPS):* You may need feedback from principals to understand their concerns during next meeting.

A: *Mike Arnold (ESA):* Okay, this may be important once we know the impacts as we transition to the next phase of the study.

Q: *Lorie Mertens-Black (City of Hollywood):* As part of Part 150, will you identify the need for different noise monitors, and agreements with the public. What specific operational measures are being considered? What happens in the future when the airport cannot accommodate any more operations?

A: *Mike Arnold (ESA):* The next phase of the study will identify and evaluate a range of operational noise mitigation and noise abatement measures as well as (1) Noise monitors will be evaluated, and they could be eligible for federal funding; (2) jurisdictional land use agreements will be evaluated in the next phase of study; the NCP phase will be discussed at the next TC meeting.

Q: *Lorie Mertens-Black (City of Hollywood):* At what level does the airport say they cannot accommodate anymore aircraft or operations?

C: *Gary Luedtke (ANAC):* There is a possibility for another parallel runway.

A: *Mike Arnold (ESA):* The airport does not have a set limit of aircraft operations. When the delay becomes too long, which is subjective to airlines and operators, these carriers would likely reduce their operations at FLL.

Q: *Geoff Rames (City of Fort Lauderdale):* What about right turn departures off the South runway in west flow? It does not look safe? What happened to 15 degrees of separation (for the 28L departure track)?

A: *Mike Arnold (ESA):* This is a question for air traffic; however, the Study will look at flight tracks / procedures that could reduce the noise impacts for non-compatible land uses.

Q: John Eastman (Southwest Ranches): We are getting notice of these meetings too late (9 days' notice for this meeting). The Team needs to determine the May timeframe now.

A: *Mike Arnold (ESA):* The meeting announcement was sent one month ahead of this meeting (February 9th), and reminders were sent one week before (February 28th) and one day before (March 6th) this meeting. We will continue to send Save the Date emails a month prior to the scheduled meetings.¹

Q: Edward Rebholz (City of Fort Lauderdale): When are recommendations coming out?

A: *Mike Arnold (ESA):* It will be part of the Noise Compatibility Plan (NCP) coming out in 2019.

Q: *Gary Luedtke (ANAC):* Last meeting, someone asked if the largest 4-engine aircraft could come into FLL; there is proof (Gary handed out image of 4-engine Russian cargo aircraft)

A: *Mike Arnold (ESA):* At the last meeting, the question was specifically about the A380, which cannot be accommodated at FLL. As stated previously, other 4-engine aircraft do occasionally operate at FLL, such as the Boeing 747.

Q: Gary Luedtke (ANAC): I've seen recreational drones being used within 5 miles of the airport.

A: *Rebecca Henry (FAA):* If you see drones being operated within 5 miles of the airport, please call the Sherriff's department.

¹ Save the dates and reminders are sent from <u>RSVP@garthsolutions.com</u>; please make sure this email address is marked as a safe sender to avoid notifications going to your spam folder.

Q: *Gary Luedtke (ANAC):* Operational data from 2017 reflects there were 137,000 flights, which is less than what was previously forecasted. The FAA's Terminal Area Forecast reflects that the airport can accommodate a lot more.

A: *Mike Arnold (ESA):* The forecast Gary is referencing was from 2006. The FAA updates the Terminal Area Forecast each year and the 2006 forecast is not being used in the Master Plan Update or the Part 150 Study. The Part 150 Study is using the Accelerated Baseline Forecast from the Master Plan Update.

Actionable Next Steps:

The next meeting will be held at the Secret Woods Nature Center - Julia Hall, likely in May 2018.

Meeting Adjourned at 11:30 AM

Appendix H-4

Technical Committee

Meeting #4

October 25, 2018

Technical Committee Meeting #4

Meeting Notice and Attendance Roster



AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport 2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

Subject: Fort Lauderdale-Hollywood International Airport 14 CFR Part 150 Study - Technical Committee Meeting #4

Please save the date for the next Technical Committee meeting to support the Fort Lauderdale-Hollywood International Airport Part 150 Study.

Date: Thursday, October 25, 2018

Time: 10:00AM - 12:00PM

Location: Secret Woods Nature Center | Julia Hall; 2701 W. SR 84; Dania Beach, FL 33312

Please arrive 10 minutes early to allow time to check in prior to the start of the meeting.

Broward County Board of County Commissioners Mark D. Bogen • Beam Furr • Steve Geller • Dale V.C. Holness • Chip LaMarca • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine www.broward.org/www.fll.net



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Meeting #4

Date / Time: Wednesday, November 7, 2018 10:00 AM - 12:00 PM

	Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-N
	Akagbosu	Chris	Director, Facility of Planning & Real Estate Dept.	Broward County School Board	754-321-2162		chris.akagbos
	Annunziata	Jason	Station Manager	JetBlue	954 233-4722	646-942-2775	Jason.Anr
	Anton	Mitch	Leadership Hollywood XLI	Hollywood Chamber of Commerce	954-646-3639		scpa
	Boutros	Kareen	Executive Director	Broward Workshop	954-462-9112		kareen@b
	Cannicle	Winston	Noise & Environmental Officer	Broward County Aviation Department - Airport Noise Office	954-359-6181		WCANN
	Castillo (A)	Will	Airport Planning Manager	Broward County Aviation Department - Airport Noise Office	954-359-2291		wcast
	Barbara	Blake Boy		Study Coordination Committee			BBLAKE
	Cooley (A)	Sid		FLL Airport Traffic Control Tower	954-921-9200		sidney.
	Coutain, Jr.	Ken	Airport Planner	Broward County Aviation Department - P/D	954-359-1599		kcouta
Ppdr 🕢	DelNegri	Theodore (TJ)	Tower Manager	FLL Airport Traffic Control Tower	954-921-9201		theodor
	Dokuchitz	Peter	Principal Planner / City of Plantation	City of Plantation	954-797-2265		pdokuch
	Eastman	John (Ada John Eastman	Town of Southwest Ranches	954-465-8383		john42
	Flint	John R.	City Manager / CEO	City of Weston	954-385-2000		jflint
	Gaenicke	Sierra		VHB			sgaer
	Gale	Mark	Director of Aviation	Broward County Aviation Department			mgale
	Gertsen (A)	Alex	Director of Airports and Ground Infrastructure	NBAA	202-737-4477		Agen
	Glover	Kalena		Delta Airlines			kalena.g
	Govin	Yasmin	5	Broward County Aviation Department - Airport Business	954-359-6145		ygovii
	Grandolfo	Joe		FEDEX			jgrande
	Hemmerle	Mark	Front Line Manager	South Florida Flight Standards Division (FSDO)	954-641-6015		Mark.W.H
	Henry	Rebecca	Assistant Manager	Federal Aviation Administration Orlando Airports District Office			Rebecca
ha							

Location: Secret Woods Nature Center

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Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Meeting #4

Date / Time: Wednesday, November 7, 2018 10:00 AM - 12:00 PM

Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-M
Hildebidle	Bob	Air Traffic Manager A	Miami Air Traffic Management/TRACON	305-869-5402	954-292-6515	Bob.Hi
Holste (A)	Phillip	Assistant Town Administration	Town of Davie	954-797-1034		Phillip_F
Hotte	Anne	CEO/Executive Director	Greater Hollywood Chamber of Commerce	954-923-4000		anne@hc
Kaine (A)	Brad	Director of Public Services	City of Dania Beach	954-924-6808		bkaine(
LaFerrier	Marc	Director, Community Development	City of Dania Beach	954-924-6805 x3643		mlaferrier
Lemack	Richard	Town Administrator	Town of Davie	954-797-1034		Richard_L
Lindblade, CAE	Dan	CAE - President and CEO	Greater Fort Lauderdale Chamber of Commerce	954-462-4911		dan@
Luedtke	Gary		ANAC	954-966-8013		glued
Lundrigan	Julia	Delta Flight Ops	Delta Airlines	404-773-2882	678-427-1350	Julia.lun
Matz	Jeff	Corporate Contact	UPS	502-329-3913		jm
Mertens-Black	Lorie	Chief Civic Affairs Officer	City of Hollywood	954-921-3599		Imertens-bl
Meyer	Gregory	Public Information Officer	Broward County Aviation Department - PIO	954-359-6116		GMey
Modrich (A)	Mark	AA Pilot/Resident	Town of Southwest Ranches	954-540-4854	954-252-5040	mmo
Morrissey	Mary	Senior Manager	FedEx	954-359-7432		mmmor
Nazzaro	Tom	Airport Manager, Aviation	Broward County Aviation Department - Airport Business	954-359-6821		tnazza
Nonnemacher (A)	Michael	Acting Assistant Executive Director	Broward County Aviation Department - Airport Operations			mnonnem
Ostendorf	Brad	Environmental Compliance Manager	Broward County Aviation Department	954-359-2395	954-829-0867	bostenc
Pacitto (A)	Mike	Director of Planning	Broward County Aviation Department - Airport Manager's Office	954-560-0766		MPPACI
James	Rufus	Airport Manager	City of Fort Lauderdale			RJames@
Pokryfke	John	Asst. Director of Operations, Aviation	Broward County Aviation Department - Airport Operations	954-359-6475		jpokryfl
Rames (A)	Geoff	Lauderdale Isles Water Management District	City of Fort Lauderdale	954-327-9095		grames
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Location: Secret Woods Nature Center

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Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Meeting #4

Date / Time: Wednesday, November 7, 2018 10:00 AM - 12:00 PM

Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-N
Rebholz	Edward		City of Fort Lauderdale	973-476-5609		ed@
Robbin	Sam	CEO	National Jets/Broward Workshop	954-868-2166		samrobbi
Shiver	Michael	General Manager	Spirit Airlines	954-359-0933		michael
Siegel (A)	Allan	Public Informations Officer	Broward County Aviation Department	954-359-6978		Asieg
Siwinski	Ben		VBH			BSiw
Solley	Edwin	Manager ATC Systems	Southwest Airlines	407-850-1563		Edwin.s
Swindell	Bob	President and CEO	Greater Fort Lauderdale Alliance Economic Development Agency	954-524-3113		bswind
Taylor	Charles	Intergovernmental Affairs Manager	Town of Davie	954-797-1034		Charles_1
Van Valkenburgh (A)	Debra		ANAC			perheli
Voos	Gregory	South Regional Representative	NBAA	202-737-4475		gvo
Wood	Matt	Growth Management Director	City of Cooper City	954-434-4300		MWood
Wu	Kevin	Airport Manager	Broward County Aviation Department - OPS	954-359-1216	954-279-4740	kwu

Location: Secret Woods Nature Center

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gvoos@nbaa.org	
ood@coopercityfl.org	
wu@broward.org	

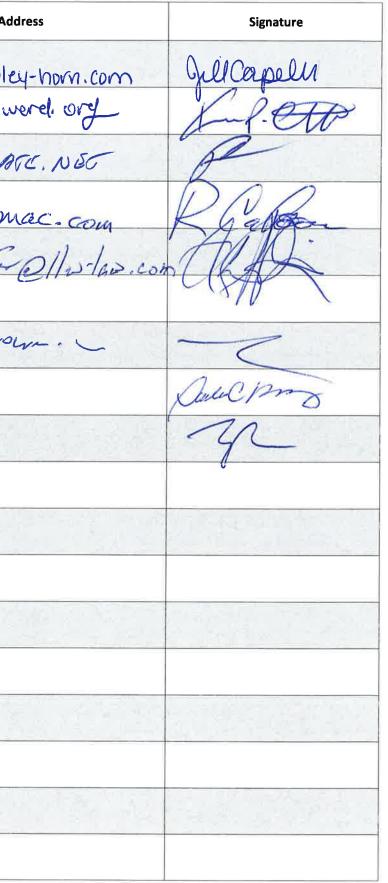


Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee

Date / Time: Friday, May 26, 2017 10:00 AM - 12:00 PM

Location: Secret Wood Nature Center

First & Last Name	Title	Company Name	Work Phone #	Cell Phone #	E-Mail Ad
Jill Capelli	Vice President	Kimley-Horn	954-535-5107	954-798-6354	jill. Capelli Okimle
KENCenterin, JR.	Amation Planner		954 248 6447	१६४ ३६९ ७५१७	16 couterin @ iorow
ROBERT FRANKS	NOTSE VECTUM			954-816-4826	BFRANKSC GA
RICHARD CALLOON	LAUD, IFLES NOISE CTE CHM		251-752-3752	-> (1	behpropan
3.3 Dipalater		Lass Lorgan & p.M.	501640-0820		-d. Anderter
Mike Pacitto					frandes i
m Graman	CDC	BCDD	9-359-2343		mgamb-, Darp-s
PAULA RIVEROS					1
E. MAM	ANAC	ANAC			
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Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Community Sign-In

Date / Time: Friday, May 26, 2017 10:00 AM - 12:00 PM

Location: Secret Wood Nature Center

First & Last Name	Title	Company Name	Work Phone #	Cell Phone #	E-Mail Ad
Richael C. Prening				959-594674	ACP 37E Jon.
Richael C. Prenija Peter Even	EPS	FAA		8135033392	fiter.m.green &
RyANGoldman	ECS	BCAD	93596216		regoldman@bra
Karen Freeman	Sonjor Planne	- BCAD	0 3596358		KFriedman
BANBARA MAGIII	PRES	LHiA		954-522-1839	Garlen May
Jae Granobod	Managen	Freshot GXPRES	954359-7437	78-4120727	In GRADROLLA C
JOANMA NORRIS	PROGRAM MANAGE	JONES PAYNE GR	1000 954-924-1065		juorris @jones
ARleve Satchell	BCAD ASST. PIO	BCAD	954359 6201		ASAtchell Obvor

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Technical Committee Meeting #4

Materials Presented at Meeting



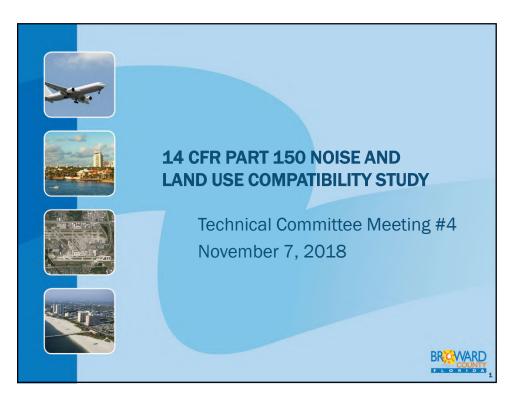


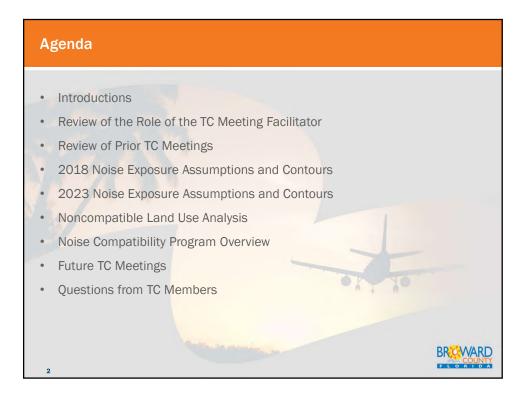
AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport 2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

Meeting Agenda Technical Committee Meeting No. 4 14 CFR Part 150 Study Fort Lauderdale-Hollywood International Airport

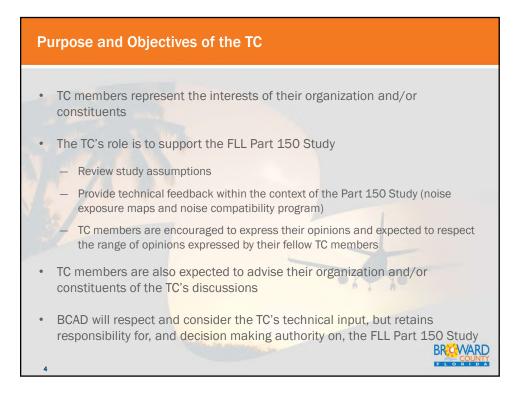
November 7, 2018 – 10AM to 12PM EDT

- 1. Introductions
- 2. Review of the Role of the TC Meeting Facilitator
- 3. Review of Prior TC Meetings
- 4. 2018 Noise Exposure Assumptions and Contours
- 5. 2023 Noise Exposure Assumptions and Contours
- 6. Noncompatible Land Use Analysis
- 7. Noise Compatibility Program Overview
- 8. Future TC Meetings
- 9. Questions from TC Members
- 10. Adjourn









TC Members

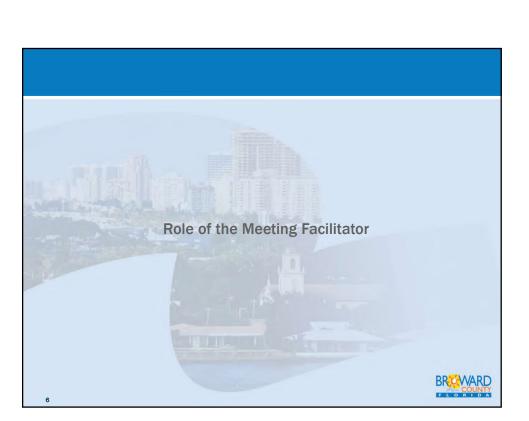
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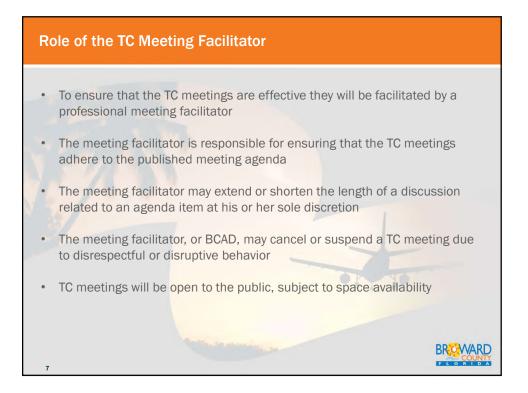
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- Greater Fort Lauderdale Chamber of . Commerce
- Greater Hollywood Chamber of Commerce
- . Greater Fort Lauderdale Alliance Economic Development Agency
- Broward Workshop

- 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 School Board .
- FAA Orlando Airports District Office .
- Miami Air Traffic Management/TRACON •
- . FLL Airport Traffic Control Tower
- South Florida Flight Standards Division (FSDO) ۲

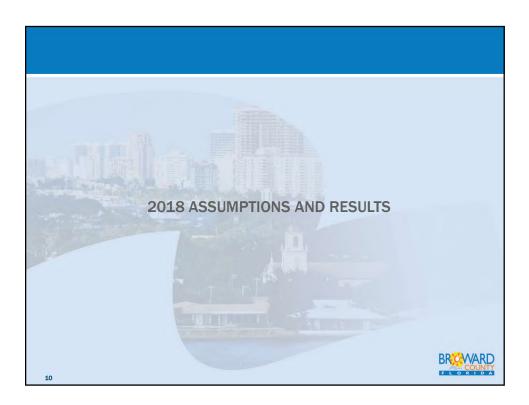
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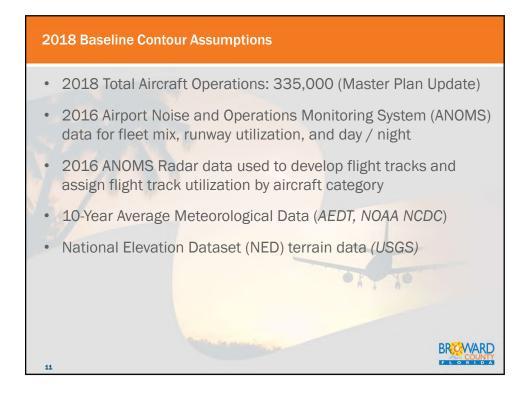


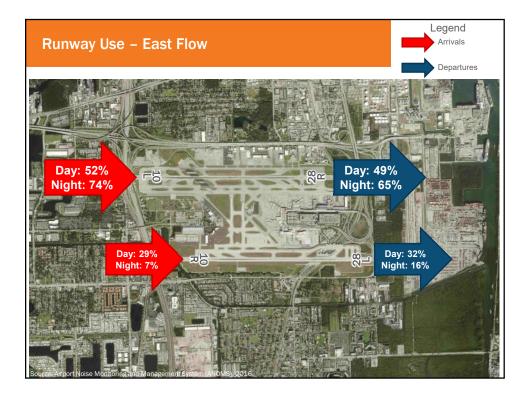


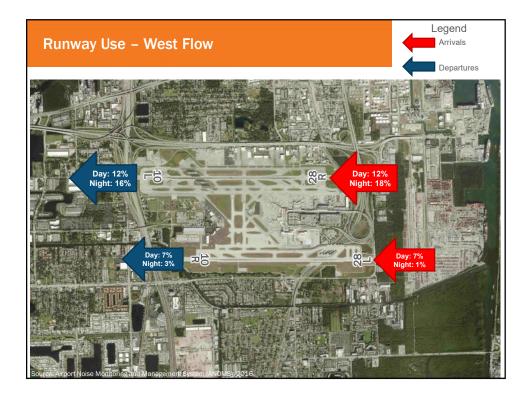




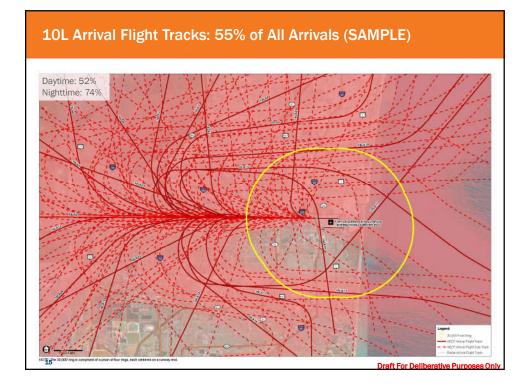


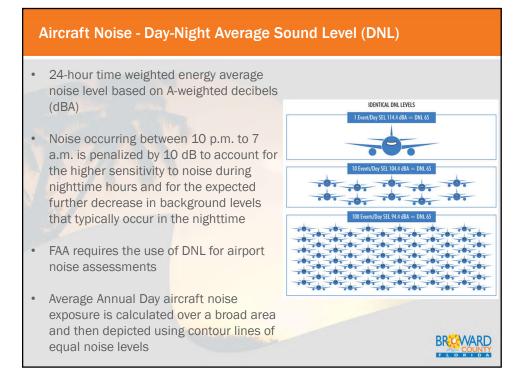


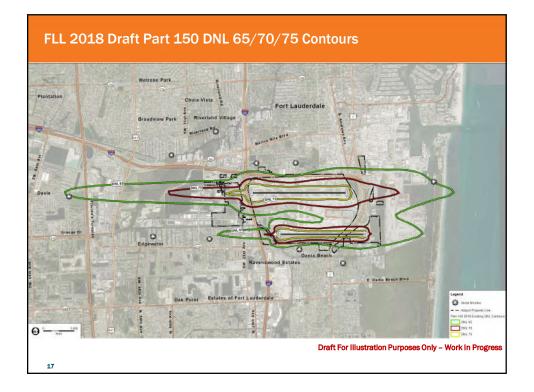




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		inway Usag			
Operation Type	Runway	Day	Night	Grand Total	
		North R	,		
	10L	52%	74%	55%	
Arrivals	28R	12%	18%	13%	
	Total	64%	92%	68%	
	South Runway				
	10R	29%	7%	26%	
	28L	7%	1%	6%	
	Total	36%	8%	32%	
	North Runway				
	10L	49%	65%	51%	
	28R	12%	16%	13%	
	Total	61%	81%	64%	
Departures		South R	unway		
	10R	32%	16%	30%	
	28L	7%	3%	6%	
	Total	39%	19%	36%	
Source: Airport Noise	e Monitoring and	Management Syste	em (ANOMS), 20	016.	



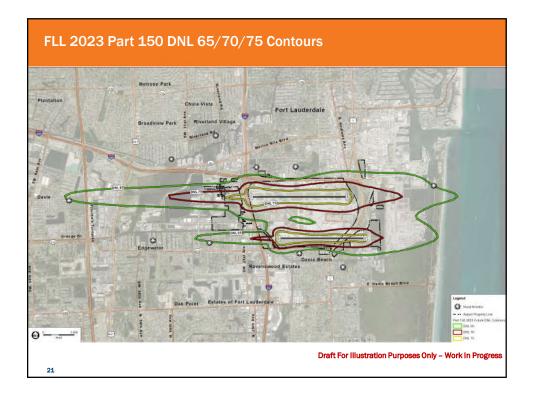


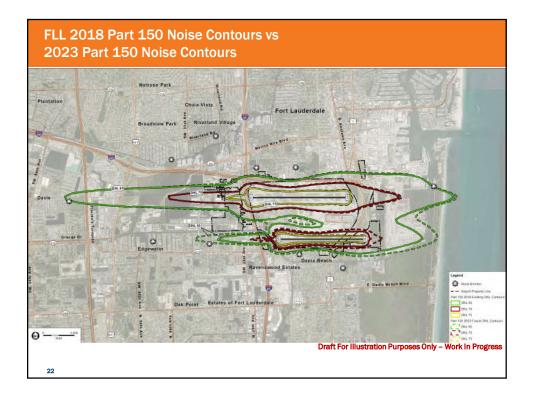


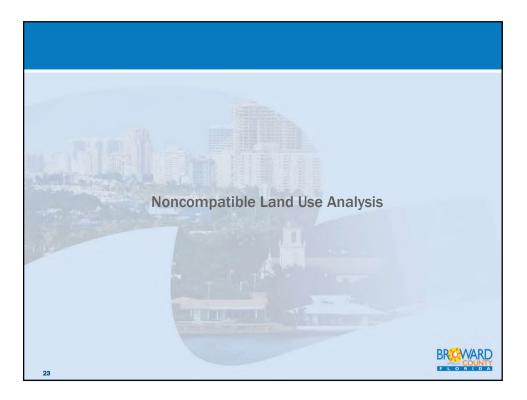


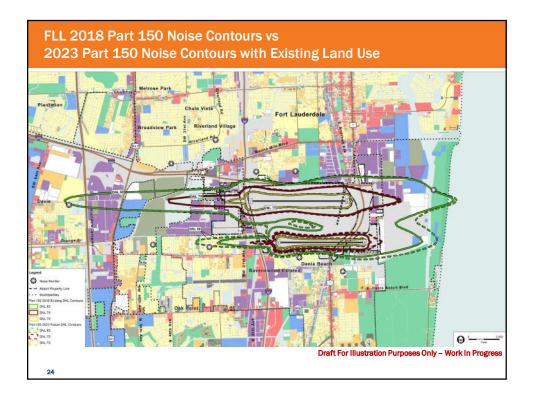


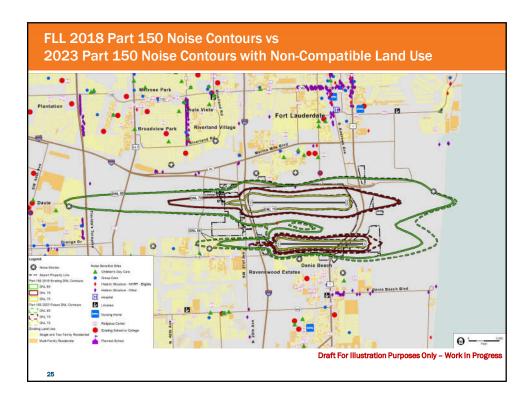
	Ru	nway Usag	e		
Operation Type	Runway	Day	Night	Grand Total	
		North R	unway		
	10L	49%	66%	52%	
Arrivals	28R	12%	12%	13%	
	Total	62%	84%	65%	
	South Runway				
	10R	31%	15%	29%	
	28L	7%	1%	6%	
	Total	38%	16%	35%	
	North Runway				
	10L	44%	59%	46%	
	28R	14%	18%	14%	
	Total	58%	77%	60%	
Departures		South R	unway		
	10R	37%	21%	35%	
	28L	5%	3%	5%	
	Total	42%	23%	40%	

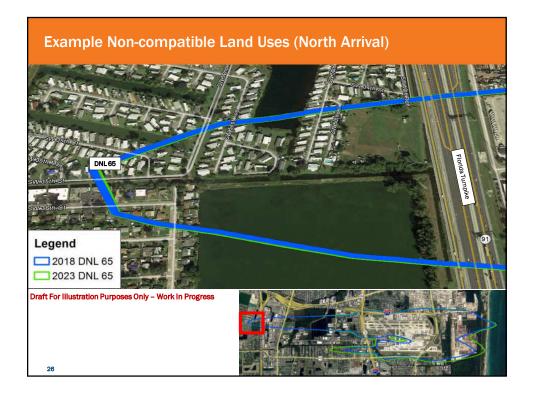


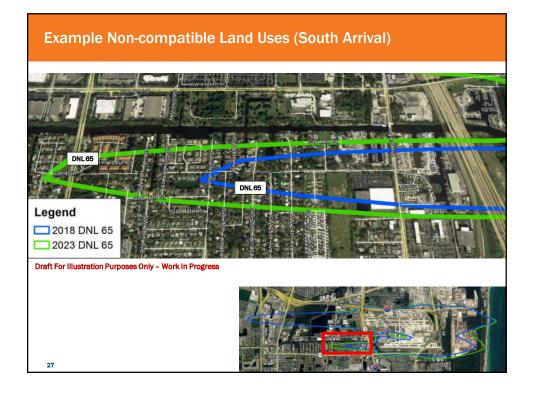


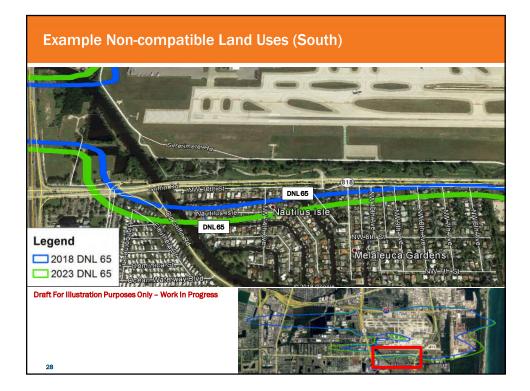




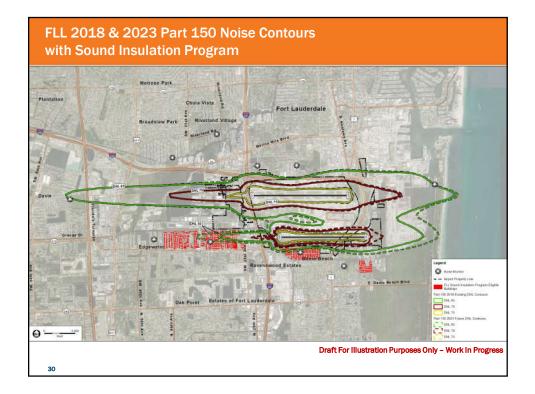


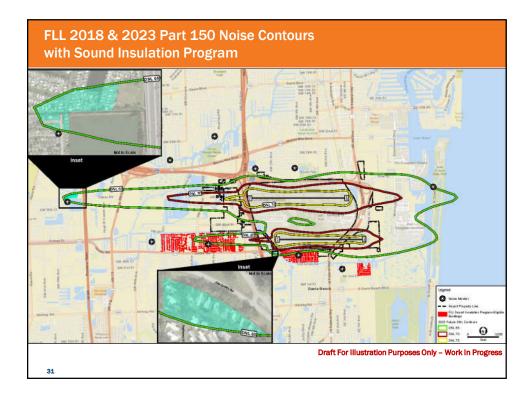




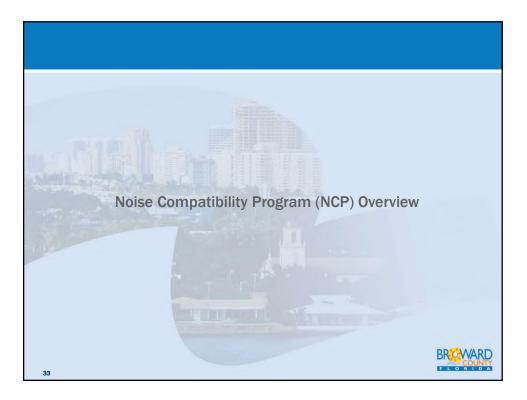


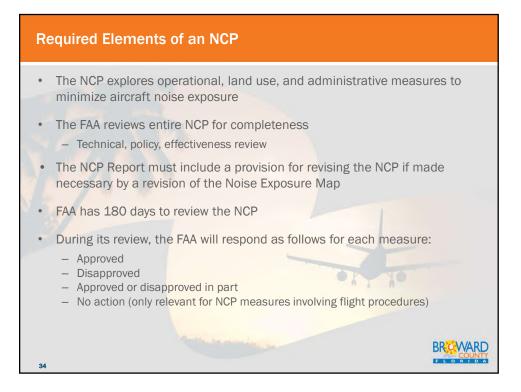
Noise Sensi	tive Sites Ex	No Other Noise Sensitive				
Noise Level ¹	loise Level ¹ Total Area Housing Population ² Historic (Acres) Units ² Population ² Resources				Sites within DNL 65:	
	. ,	2018			Schools	
DNL 65-70	2,276.00	203	430	3	 Hospitals 	
DNL 70-75	710.1	0	0	0	·	
DNL 75+	459.6	0	0	0	 Religious Facilities 	
Total	3,445.70	203	430	3	Day Cares	
		2023			Nursing Homes/ Grou	
DNL 65-70	2,579.00	492	1,073	3	Nuising nomes/ droup	
DNL 70-75	805.7	0	0	0	Care	
DNL 75+	503.3	0	0	0	Libraries	
Total	3.888.00	492	1.073	3		

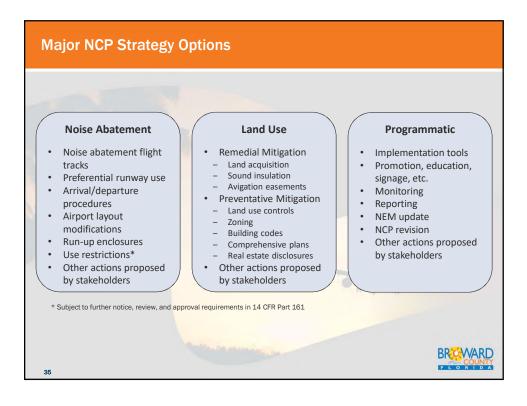


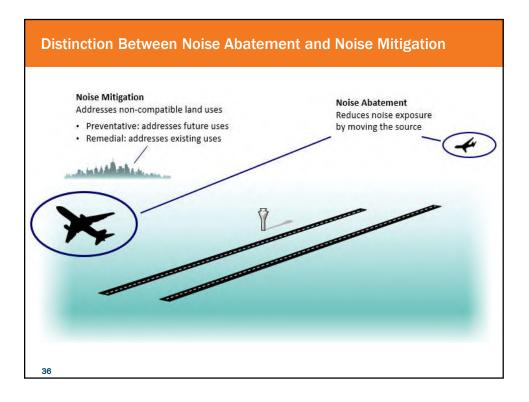


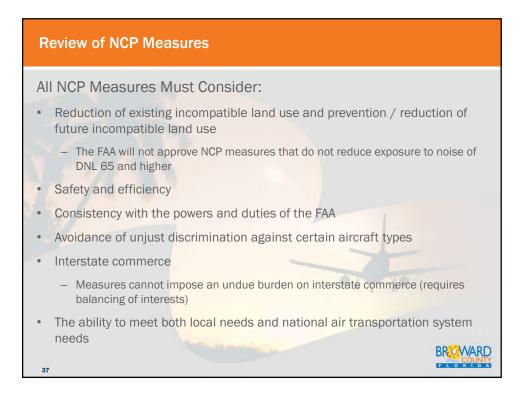
1			_
	OUSING UNITS NOT IN CUR		
Noise Level ²	Housing Units Outside SIP ³	Housing Units within SIP ¹	
1	2018		
DNL 65-70	89	114	
DNL 70+	0	0	
TOTAL:	89	114	
	2023		
DNL 65-70	105	387	
DNL 70+	0	0	
TOTAL:	105	387	
² Noise contours from Enviro	ram housing unit data from Broward C onmental Science Associates (ESA) 2010 Census block-level data.	County Aviation Department	
Draft Analysis For Internal	Review Only – Work In Progress		

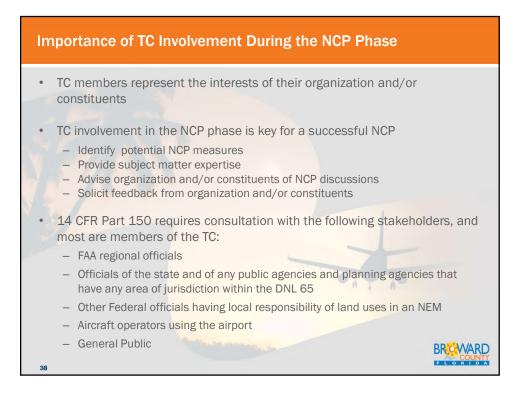






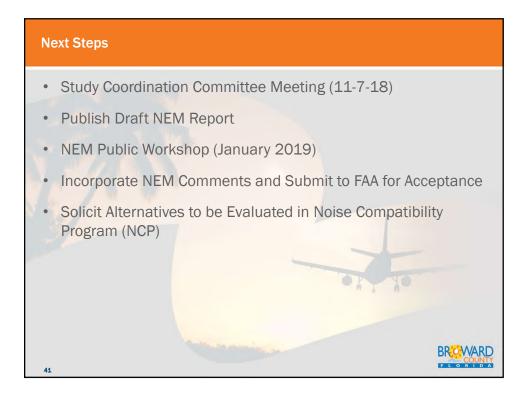


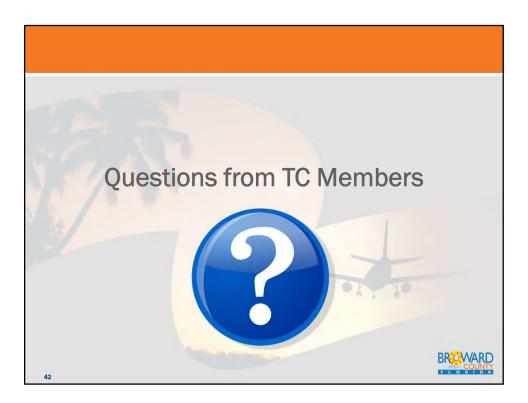














Technical Committee Meeting #4

Meeting Summary

14 CFR Part 150 Noise and Land Use Compatibility Study Technical Committee Meeting #4 November 7, 2018 Meeting Minutes

Location: Secret Woods Nature Center, Julia Hall 2701 W State Rd 84 Fort Lauderdale, FL 33312

Committee Members in Attendance

BCPS Alternate
Peter Dokuchitz – City of Plantation
John Eastman - Town of Southwest Ranches
Gary Luedtke – ANAC
Lorie Mertens-Black – City of Hollywood
Geoff Rames – City of Fort Lauderdale
Edwin Solley – Southwest Airlines

Richard Lemack – Town of Davie Bob Swindell – GFL Alliance Charles Taylor – Town of Davie Blake Boy Barbara – Study Coordination Committee Joe Grandolfo – FedEx Barbara Blake Boy – Broward County Planning Council

Others Present

Eric Ram – ANAC
Winston Cannicle – BCAD
Will Castillo – BCAD
Ken Coutain, Jr. – BCAD
Karen Friedman – BCAD
Ryan Goldman – BCAD
Mike Pacitto – BCAD
Arlene Satchell – BCAD
Ryan Goldman - BCAD
Marc Gambrill – BCAD

Agenda and Key Topics:

- Review of the Role of the TC Meeting Facilitator
- Review of Prior TC Meetings
- 2018 Noise Exposure Assumptions and Contours
- 2023 Noise Exposure Assumptions and Contours
- Noncompatibility Land Use Analysis
- Noise Compatibility Program Overview
- Future TC Meetings

Peter Green – FAA Jill Capelli – Kimley-Horn Sierra LePore – VHB Barbara Magill – LHIA Richard Cahoon – Resident Robert Franks – Resident Joanna Norris – Resident Richard Pfenniger – Resident Paula Riveros – Resident

Meeting Summary:

- The Technical Committee convened for its fourth meeting at 10:00 AM on November 7, 2018 at the Secret Woods Nature Center in the Julia Hall.
- The meeting began with re-introductions of participants.
- Ground rules for the TC members were established by the facilitator. TC members were encouraged to express their opinions and expected to respect the range of opinions expressed by their fellow TC members. TC members were also expected to advise their organization and/or constituents of the TC's discussion.
- Attending members of the public were advised of ways in which they could submit comments including through the project website (<u>www.fllpart150.com</u>) and at future public meetings (dates TBD).
- A presentation of key topics was presented by Michael Arnold, Part 150 Project Director representing the ESA consulting team. The presentation included the following information:
 - A review of the material presented in the prior TC meetings
 - o 2018 Noise Exposure Assumptions and Contours
 - o 2023 Noise Exposure Assumptions and Contours
 - Noncompatible Land Use Analysis
 - Noise Compatibility Program Overview

Questions & comments from TC members:

- **Q:** *Richard Lemack (Town of Davie)* What kind of sound insulation is the Team considering for mobile homes?
 - A: The next phase of the study will get into evaluating noise abatement and mitigation strategies.
- **Q:** *Geoff Rames (City of Fort Lauderdale)* Why are there more attendees at the public workshops in Lauderdale Isles, but the 65DNL contour is not shown over this area?
 - A: The DNL contour is an average day noise exposure relative to an entire year. This measure is used to determine overall compatibility of a use, not annoyance related to an individual or series of overflights that may occur on a relatively infrequent basis.
- **Q:** *Geoff Rames (City of Fort Lauderdale)* Can you confirm if the modeling does not model short term but rather models long term noise? Is the metric changing from 65DNL?
 - A: The model determines noise exposure based on an annual average day. The FAA is evaluating and has gone through litigation related to use of the DNL 65 dB contour and it has withstood a number of legal challenges over the past 30 plus years. When the metric was adopted there were an estimated seven million people within the contour nationally and now there are just a few hundred thousand. The FAA is evaluating whether the DNL 65 dB contour should remain the level or metric used for

determining significance for noise sensitive uses, but it will likely be a number of years before we see the results of that effort.

- **Q:** *Charles Taylor (Town of Davie)* How high are the aircraft in the 65DNL contour by Florida Turnpike?
 - A: The aircraft are at about 900-feet to 1,000-feet at this location on arrivals.
- **Q:** John Eastman (Southwest Ranches) Since the contours are cumulative, could the Team specify and look at only a specific aircraft (i.e. Airbus)? The sound of the engine blades goes right through people's homes.
 - A: There are actually modification that can be done to certain aircraft types to reduce the noise generated. An example is the vortex generators that can be installed on Airbus A320 to reduce the noise created by wind passing over the fuel ports on the wings. A number of airlines have retrofitted their aircraft and new aircraft typically have these when they come off the assembly line. This is an example of the measures that could be considered in the next phase of the study.
- **Q:** *Geoff Rames (City of Fort Lauderdale)* Is the information from remote monitors used in developing the contours?
 - A: The noise monitors are not used to develop the contours, but they are looked at when evaluating the results of the contour. There are only 11 locations around the airport, which does not provide a complete calculation of the noise surrounding the airport.
- **Q:** Geoff Rames (City of Fort Lauderdale) Are the noise monitors used to verify calculations?
 - A: We look at the levels that the monitors take in on a relative basis, but the noise monitors record a single event, while the contours account for an average annual day of noise exposure. The noise model uses a combination of real world assumptions applied to projected operational levels to predict noise. This does not allow for an apples-to-apples comparison of noise during a past period.
- **Q:** *Lorie Mertens-Black (City of Hollywood)* When will issues be addressed and measures created? It was also noted that the contours are great if the aircraft stay within contours. People outside of the contours have experienced issues, even if it is only 1 or 2 flights in the morning or night
 - A: The next slide discusses the next phase (mitigation and abatement). The study also looks at why certain overflights have occurred.
- **Q:** *Lorie Mertens-Black (City of Hollywood)* Can you confirm that the FAA will not approve formal restrictions, but could approve a voluntary program?
 - **A:** Voluntary measures could be approved as a programmatic approach, but not a formal noise abatement approach. It is a matter of description and type of submission to FAA.
- **Q:** *Geoff Rames (City of Fort Lauderdale)* Are noise mitigation measures for land use only for those within the 65 DNL?
 - **A:** Yes, mitigation measures (except for administrative measures) are for those within the 65 DNL, however local governments can go beyond the 65 DNL in establishing land use measure such as notification areas.

Q: *Gary Luedtke* (*ANAC*) – When the airport closes the south runway at night, was that a local order (tower order)? Is that the type of local regulation that may occur?

A: Any type of runway closures of that nature must be approved by FAA.

- **Q:** *Geoff Rames (City of Fort Lauderdale)* Will the local government ever come to fruition? If a city went to the FAA, could they make a recommendation on a restriction for something outside of 65DNL? Can you provide an example of a place that has done this successfully?
 - A: A number of noise abatement programs have gone through some type of collaborative process with air traffic control (ATC) and FAA where everyone is on board with measures that could not necessarily be otherwise approved under a Part 150 program. There are a number of airports with voluntary noise abatement measures and fly friendly programs that have never conducted a Part 150.
- **Q:** John Eastman (Southwest Ranches) Can you include Miami TRACON in the next Technical Committee meeting?

A: The Team will send an invitation to Miami TRACON.

- **Q:** *Lorie Mertens-Black (City of Hollywood)* Is the Part 150 study is conducted in coordination with Metroplex and if not, how can it be?
 - A: One of the challenges with Metroplex is that it has many starts and stops, so it is not clear what is happening with the Metroplex. The Team and BCAD had determined to keep the Part 150 project moving rather than wait for Metroplex, although the Team tries to consider as much as possible. Additionally, there may be outcomes from Metroplex that can be used in the future after the Part 150 study.
- **Q:** *Geoff Rames (City of Fort Lauderdale)* Can we get an update on the Master Plan? What is the coordination between the Master Plan and the Part 150 study?
 - A: Key coordination areas are land use and fleet mix projections/flight tracks related to airfield changes. The Team needed to ensure that the Master Plan schedule was far enough r along, so the Part 150 study uses the correct values (operations, etc.).
- **Q:** *Geoff Rames (City of Fort Lauderdale)* Will the Team provide an update on the Master Plan at the Technical Committee meeting in January 2019?
 - A: Yes, the Team will provide an update on the Master Plan process.

Actionable Next Steps:

Schedule Technical Committee Meeting #5

Meeting Adjourned at 11:30 AM

Appendix H-5

Technical Committee

Meeting #5

January 16, 2019

Technical Committee

Meeting #5

Meeting Notice and

Attendance Roster



AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport 2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

Subject: Fort Lauderdale-Hollywood International Airport 14 CFR Part 150 Study - Technical Committee Meeting #5

Please save the date for the next Technical Committee meeting to support the Fort Lauderdale-Hollywood International Airport Part 150 Study.

Date: Wednesday January 16, 2019

Time: 10:00AM - 12:00PM

Location: Secret Woods Nature Center | Julia Hall; 2701 W. SR 84; Dania Beach, FL 33312

Please arrive 10 minutes early to allow time to check in prior to the start of the meeting.

Broward County Board of County Commissioners Mark D. Bogen • Beam Furr • Steve Geller • Dale V.C. Holness • Chip LaMarca • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine www.broward.org/www.fll.net



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Meeting #5

Date / Time: Wednesday, January 16, 2019 10:00 AM - 12:00 PM

E	Cell Phone #	Work Phone #	Organization Name	Title	First Name	Last Name
chris.akag		754-321-2162	Broward County School Board	Director, Facility of Planning & Real Estate Dept.	Chris	Akagbosu
Jason.A	646-942-2775	954 233-4722	JetBlue	Station Manager	Jason	Annunziata
sc		954-646-3639	Hollywood Chamber of Commerce	Leadership Hollywood XLI	Mitch	Anton
kareen(954-462-9112	Broward Workshop	Executive Director	Kareen	Boutros
WCA		954-359-6181	Broward County Aviation Department - Airport Noise Office	Noise & Environmental Officer	Winston	Cannicle
wca		954-359-2291	Broward County Aviation Department - Airport Noise Office	Airport Planning Manager	Will	Castillo (A)
BBLA			Study Coordination Committee		Barbara	Blake Boy
sidn		954-921-9200	FLL Airport Traffic Control Tower		Sid	Cooley (A)
kco		954-359-1599	Broward County Aviation Department - P/D	Airport Planner	Ken	Coutain, Jr.
theod		954-921-9201	FLL Airport Traffic Control Tower	Tower Manager	Theodore (TJ)	DelNegri
pdok		954-797-2265	City of Plantation	Principal Planner / City of Plantation	Peter	Dokuchitz
johi	954 465.8383	954-465-8383	Town of Southwest Ranches	Rep. SWR	John	Eastman
jf	Ma	954-385-2000	City of Weston	City Manager / CEO	John R.	Flint
sg			VHB		Sierra	Gaenicke
mį			Broward County Aviation Department	Director of Aviation	Mark	Gale
mga	-		Broward County Aviation Department	Aviation Chief Development Officer (CDO)	Marc	Gambrill
A		202-737-4477	NBAA	Director of Airports and Ground Infrastructure	Alex	Gertsen (A)
kaler			Delta Airlines	Performance Engineer	Kalena	Glover
yge		954-359-6145	Broward County Aviation Department - Airport Business	, , , , , , , , , , , , , , , , , , , ,	Yasmin	Govin
jgra			FEDEX		Joe	Grandolfo
pete			FAA		Peter	Green

Location: Secret Woods Nature Center

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Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Meeting #5

Date / Time: Wednesday, January 16, 2019 10:00 AM - 12:00 PM

	(a)					
Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-N
Hemmerle	Mark	Front Line Manager	South Florida Flight Standards Division (FSDO)	954-641-6015		Mark.W
Henry	Rebecca	Assistant Manager	Federal Aviation Administration Orlando Airports District Office			Rebec
Hildebidle	Bob	Air Traffic Manager A	Miami Air Traffic Management/TRACON	305-869-5402	954-292-6515	Bob.H
Holste (A)	Phillip	Assistant Town Administration	Town of Davie	954-797-1034		Phillip_H
Hotte	Anne	CEO/Executive Director	Greater Hollywood Chamber of Commerce	954-923-4000	I	anne@hc
James	Rufus	Airport Manager	City of Fort Lauderdale			RJames@
Kaine (A)	Brad	Director of Public Services	City of Dania Beach	954-924-6808		bkaine(
LaFerrier	Marc	Director, Community Development	City of Dania Beach	954-924-6805 x3643		mlaferrier
Lemack	Richard	Town Administrator	Town of Davie	954-797-1034		Richard_L
Lindblade, CAE	Dan	CAE - President and CEO	Greater Fort Lauderdale Chamber of Commerce	954-462-4911		dan@
Luedtke	Gary		ANAC	954-966-8013		glued
Lundrigan	Julia	Delta Flight Ops	Delta Airlines	404-773-2882	678-427-1350	Julia.lun
Matz	Jeff	Corporate Contact	UPS	502-329-3913		jm
Mertens-Black	Lorie	Chief Civic Affairs Officer	City of Hollywood	954-921-3599		Imertens-bl
Meyer	Gregory	Public Information Officer	Broward County Aviation Department - PIO	954-359-6116		GMey
Modrich (A)	Mark	AA Pilot/Resident	Town of Southwest Ranches	954-540-4854	954-252-5040	mmo
Morrissey	Mary	Senior Manager	FedEx	954-359-7432		mmmor
Nazzaro	Tom	Airport Manager, Aviation	Broward County Aviation Department - Airport Business	954-359-6821		tnazza
Nonnemacher (A)	Michael	Acting Assistant Executive Director	Broward County Aviation Department - Airport Operations			mnonnem
Pacitto (A)	Mike	Director of Planning	Broward County Aviation Department - Airport Manager's Office	954-560-0766		MPPACI
James	Rufus	Airport Manager	City of Fort Lauderdale			RJames@

Location: Secret Woods Nature Center

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emacher@broward.org	
ACITTO@broward.org	MART
es@fortlauderdale.gov	



Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee Meeting #5

Date / Time: Wednesday, January 16, 2019 10:00 AM - 12:00 PM

Last Name	First Name	Title	Organization Name	Work Phone #	Cell Phone #	E-Mail Address	Signature
Pokryfke	John	Asst. Director of Operations, Aviation	Broward County Aviation Department - Airport Operations	954-359-6475		jpokryfke@broward.org	
Rames (A)	Geoff	Lauderdale Isles Water Management District	City of Fort Lauderdale	954-327-9095		grames.licia@gmail.com	112
Rebholz	Edward		City of Fort Lauderdale	973-476-5609		ed@edrebholz.com	EPT
Robbin	Sam	CEO	National Jets/Broward Workshop	954-868-2166		samrobbin@nationaljets.com	8°
Sack	Richard	Air Traffic Manager	FLL Airport Traffic Control Tower			Richard.T.Sack@faa.gov	
Shiver	Michael	General Manager	Spirit Airlines	954-359-0933		michael.shiver@spirit.com	
Siegel (A)	Allan	Public Informations Officer	Broward County Aviation Department	954-359-6978		Asiegel@broward.org	
Siwinski	Ben		VBH			BSiwinski@VHB.com	
Solley	Edwin	Manager ATC Systems	Southwest Airlines	407-850-1563		Edwin.solley@wnco.com	Edim Soly
Sorenson	Ben	Vice Mayor	City of Fort Lauderdale		154 802 3311	BSorensen@fortlauderdale.gov	2
Swindell	Bob	President and CEO	Greater Fort Lauderdale Alliance Economic Development Agency	954-524-3113		bswindell@gflalliance.org	Regadul
Taylor	Charles	Intergovernmental Affairs Manager	Town of Davie	954-797-1034		Charles_Taylor@davie-fl.gov	2
Van Valkenburgh (A)	Debra		ANAC			perhelion@hotmail.com	
Voos	Gregory	South Regional Representative	NBAA	202-737-4475		gvoos@nbaa.org	
Wood	Matt	Growth Management Director	City of Cooper City	954-434-4300		MWood@coopercityfl.org	nullood
Wu	Kevin	Airport Manager	Broward County Aviation Department - OPS	954-359-1216	954-279-4740	kwu@broward.org	

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Location: Secret Woods Nature Center

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Page 1 of 2

Meeting: Fort Lauderdale - Hollywood International Airport --- Part 150 Study - Technical Committee #5

Date / Time: Thursday, January 16, 2018 10:00 AM - 12:00 PM

Location: Secret Woods Nature Center

First & Last Name	Title	Company Name	Work Phone #	Cell Phone #	E-Mail A
Richard C. AFennije				84-541.1741	PCP37CJ.
Rehad C. AFenniju Felicia Reeves		FAA			
Ryan Thomas		City of FTL		321-216-5494	~
Saven Friedman	Senior Planner	BCAD			Kfnedman (rgoldmanebr
Ryan Goldman	Env. Compliance	BCAD			rgoldmanebr
Scrap Buelingiamic	Serier Associate	ESA	813-207-7200		shurlingiame @
hen Coenterin A.					
LEONA HENRY	PUBLIC RELATIONS COOR.	TOWN OF DAVIE	954 797 1035	954 732 0019	Thenry@davie-fl.
GA1					5
CARCLE HABVEY	Home i where.		954-962-2239	441880 37 AUP	
TROY THOMASSEN	own +			954-873-933	TroyThomasse
ENIC RAM	ANAC	ANAC		,	l
Stephen Goetzinger	Managing Associate	ESA	202-394-7350		5yoetzinger Des
Trino Sugarlier	Sr. Enp.	Delta	404-36-0286		Irina sugarli
Khulit Nasser	Landerdele Isles Mypit Committe		703 231 8332	703 231 8332	Kmnasser@ya
	/				•



Technical Committee

Meeting #5

Materials Presented at Meeting



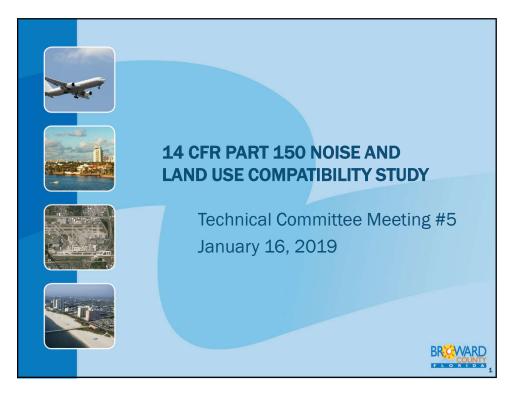


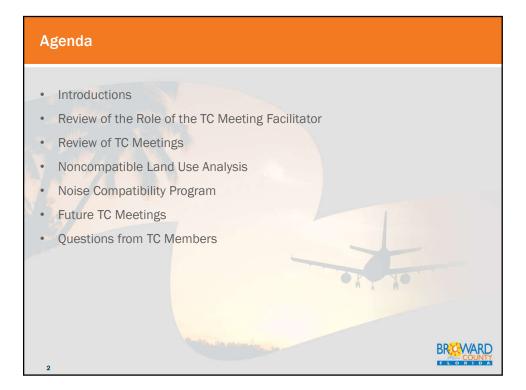
AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport 2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

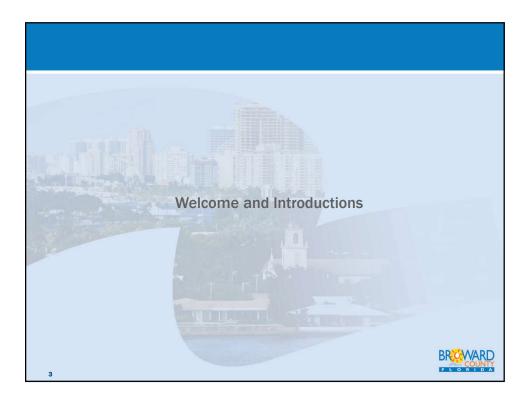
Meeting Agenda Technical Committee Meeting No. 5 14 CFR Part 150 Study Fort Lauderdale-Hollywood International Airport

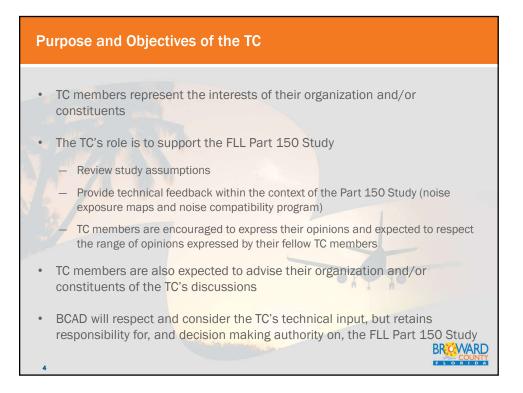
January 16, 2019 – 10AM to 12PM EDT

- 1. Introductions
- 2. Review of the Role of the TC Meeting Facilitator
- 3. Review of Prior TC Meetings
- 4. Noncompatible Land Use Analysis
- 5. Noise Compatibility Program
- 6. Future TC Meetings
- 7. Questions from TC Members
- 8. Adjourn









TC Members

- BCAD
- ANAC
- Southwest Airlines
 Delta Airlines
- Delta Airlines
- JetBlue
- Spirit AirlinesUPS
- NBAA

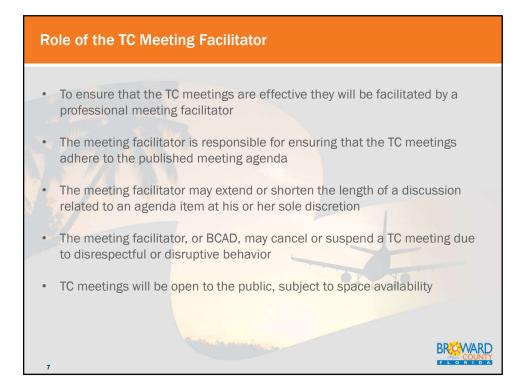
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- Greater Fort Lauderdale Chamber of Commerce
- Greater Hollywood Chamber of Commerce
- Greater Fort Lauderdale Alliance Economic Development Agency
- Broward Workshop

- 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 School Board
- FAA Orlando Airports District Office
- Miami Air Traffic Management/TRACON
- FLL Airport Traffic Control Tower
- South Florida Flight Standards Division (FSD0)

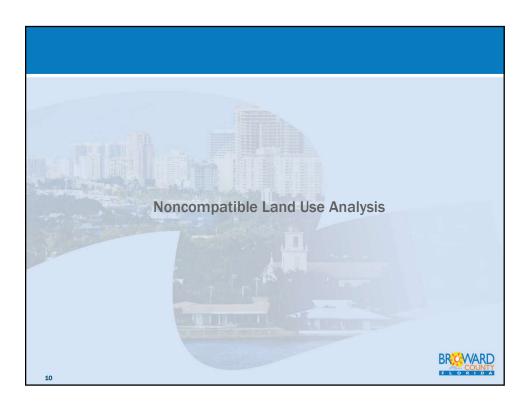


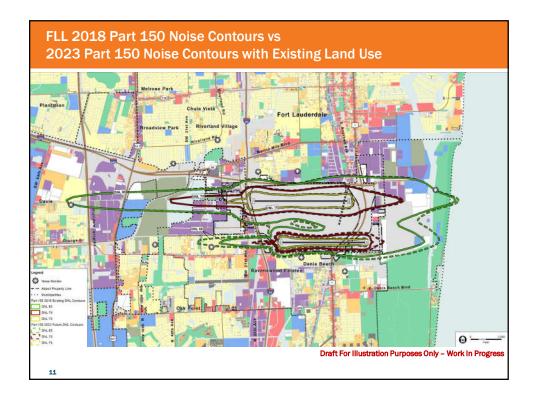


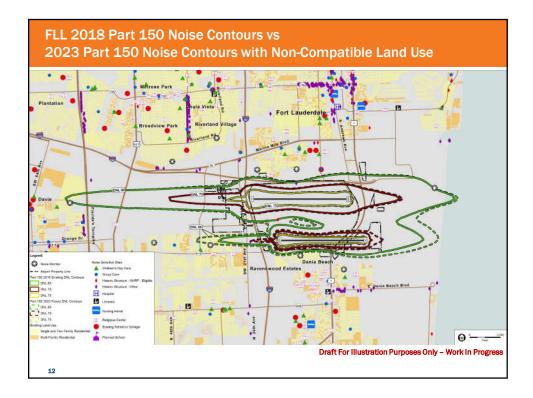


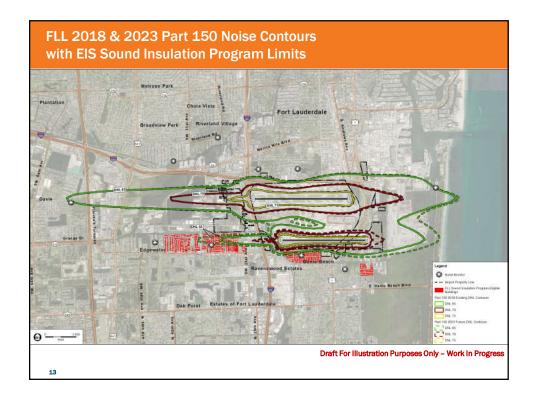




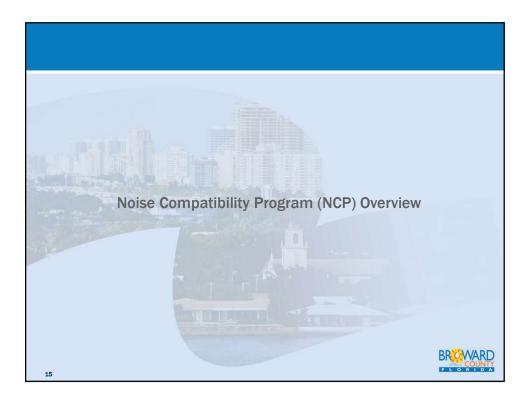


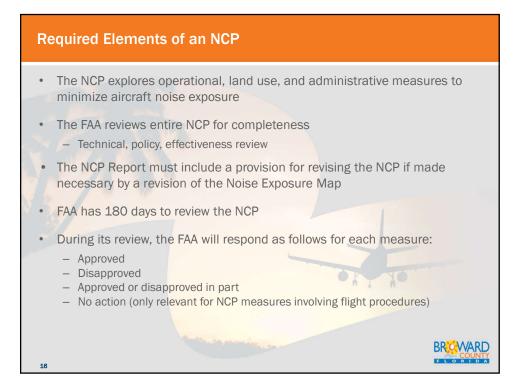


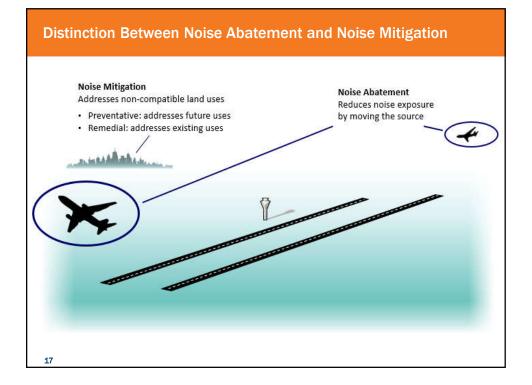




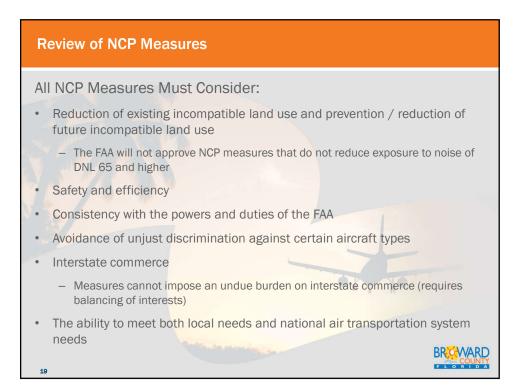
S			
	IOUSING UNITS NOT IN CUR		
Noise Level ²	Housing Units Outside SIP ³	Housing Units within SIP ¹	
<i>N</i>	2018		
DNL 65-70	89	114	
DNL 70+	0	0	
TOTAL:	89	114	
	2023		
DNL 65-70	105	387	
DNL 70+	0	0	
TOTAL:	105	387	
² Noise contours from Enviro	gram housing unit data from Broward C onmental Science Associates (ESA) n 2010 Census block-level data.	county Aviation Department	
Draft Analysis For Internal	Review Only - Work In Progress		

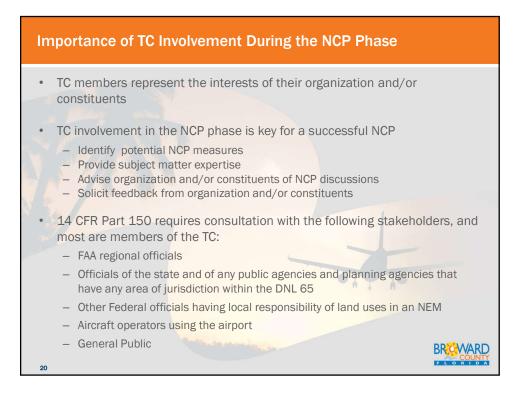


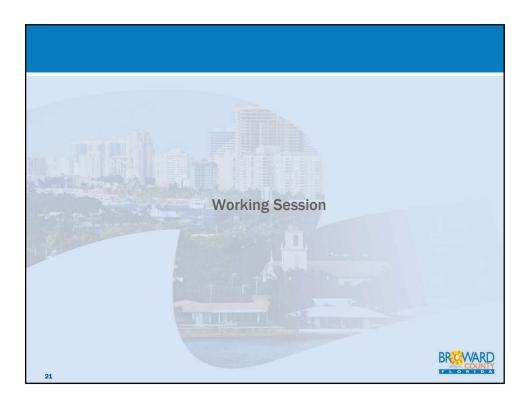


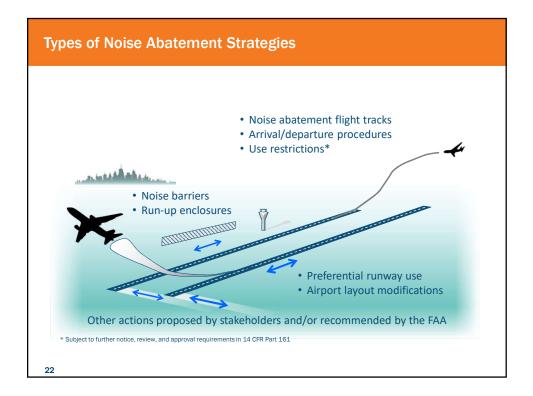


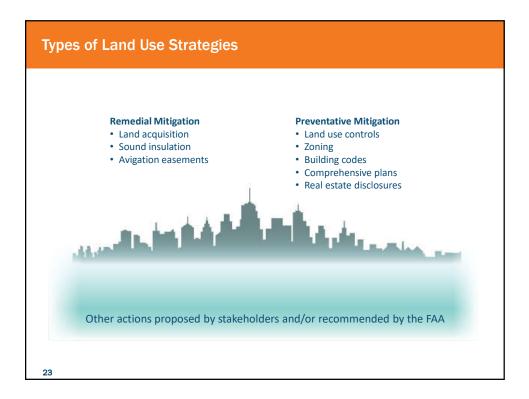








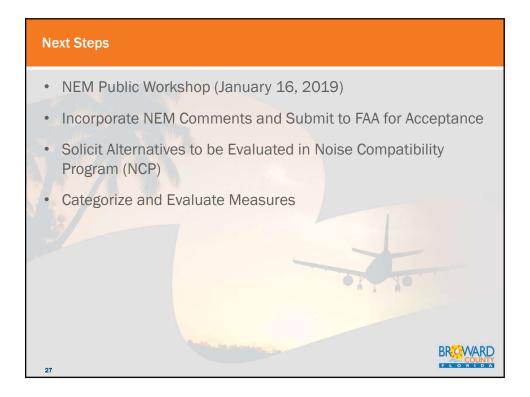


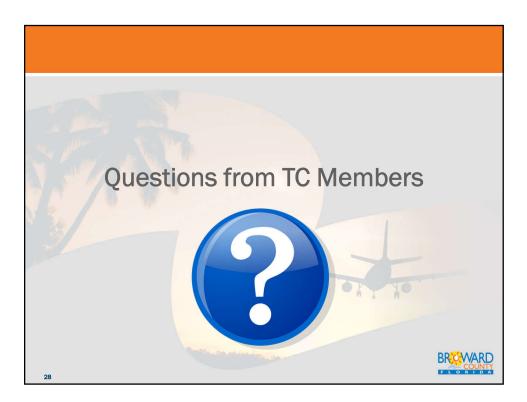


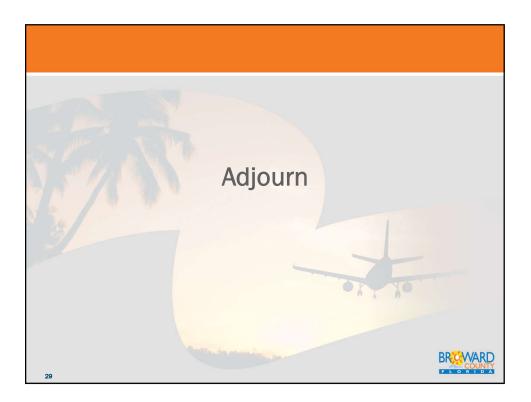












Technical Committee

Meeting #5

Meeting Summary

14 CFR Part 150 Noise and Land Use compatibility study Technical Committee Meeting #5 January 16, 2019

Meeting Minutes

Location: Secret Woods Nature Center, Julia Hall 2701 W State Rd 84 Fort Lauderdale, FL 33312

Committee Members in Attendance

Gary Luedtke – ANAC Chris Akagbosu – Broward County School Board Matt Wood – City of Cooper City Peter Dokuchitz – City of Plantation Lorie Mertens-Black – City of Hollywood Ben Sorenson – City of Fort Lauderdale Geoff Rames – City of Fort Lauderdale Rufus James – City of Fort Lauderdale Edward Rebholz – City of Fort Lauderdale John Flint – City of Weston Kallie Glover – Delta Airlines Michael Shiver – Spirit Airlines Mark Hemmerle – South Florida Flight Standards Division (FSDO) Bob Hildebidle – Miami Air Traffic Management/TRACON Richard Lemack – Town of Davie Bob Swindell – GFL Alliance Phillip Holste – Town of Davie Blake Boy Barbara – Study Coordination Committee Donna Peplin – City of Dania Marc LeFerrier – City of Dania Beach

Others Present

Winston Cannicle – BCAD Will Castillo – BCAD Gregory Meyer – BCAD Ryan Thomas – City of Fort Lauderdale Ken Coutain, Jr. – BCAD Karen Friedman – BCAD Ryan Goldman – BCAD Mike Pacitto – BCAD Richard Pfenniger Eric Ram – ANAC Irina Sugarliev – Delta Airlines Leona Henry – Town of Davie Peter Green – FAA Felicia Reeves – FAA Khalil Nasser – Lauderdale Isles Airport Committee Carole Harvey – Resident Troy Thomassen – Resident

Agenda and Key Topics:

- Review of the Role of the TC Meeting Facilitator
- Review of Prior TC Meetings
- Noncompatible Land Use Analysis
- Noise Compatibility Program
- Future TC Meetings
- Questions from TC Members

Meeting Summary:

- The Technical Committee convened for its fifth meeting at 10:00 AM on January 16, 2019 at the Secret Woods Nature Center in the Julia Hall.
- The meeting began with re-introductions of participants.
- Ground rules for the TC members were established by the facilitator. TC members were encouraged to express their opinions and expected to respect the range of opinions expressed by their fellow TC members. TC members were also expected to advise their organization and/or constituents of the TC's discussion.
- Attending members of the public were advised of ways in which they could submit comments including through the project website (<u>www.fllpart150.com</u>) and at the evening (January 16, 2019) Public Information Workshop, and future public meetings.
- A presentation of key topics was presented by Michael Arnold, Part 150 Project Director representing the ESA consulting team. The presentation included the following information:
 - o A review of the material presented in the prior TC meetings
 - o 2018 and 2023 Noise Exposure Maps
 - o Noncompatible Land Use Analysis
 - o Noise Compatibility Program (NCP) Overview
- After the Noise Compatibility Program overview, there was a working session in which the Technical Committee was encouraged to participate by offering noise abatement and land use strategy suggestions.

Questions & comments from TC members:

- **Q:** *Laurie Mertens-Black (City of Hollywood)* Is the presentation tonight and can the public provide written or verbal comments at the meeting?
 - **A:** The Public Information Workshop will be conducted in an "open house" format, so there will be no formal presentation given during the workshop. The public can provide written or verbal comments at the meeting.
- **Q:** *Gary Luedtke* (ANAC) Which street in the insulation program is furthest west?

A: The Team will review the sound insulation boundary and provide a response.

- **Q:** *Rufus James (City of Fort Lauderdale)* Are the buildings identified in red offered sound insulation or has sound insulation been implemented?
 - A: The areas in red are eligible for sound insulation. Testing was conducted to determine which homes are eligible.
- **Q:** *Chris Akagbosu (Broward County School Board)* Broward County Schools previously provided GIS shape files to the Project Team to help determine where schools may be located within the 65 DNL noise contour. Where can we see the overlay to see where schools are located in relation to the contours? Is the 65 DNL is acceptable?
 - A: The Noise Exposure Maps show the noise sensitive sites and land use. The official maps are on the website in Appendix K. The 65 DNL is considered incompatible. It is a cumulative noise exposure over one year (not a single noise event).
- **Q:** *Chris Akagbosu (Broward County School Board)* By looking at the map in the PowerPoint slide, it looks like there are schools in the 65 DNL. If they are in the 65 DNL, can they receive sound insulation?
 - A: The next phase looks at areas that qualify for sound insulation. Sound insulation can be a recommended abatement measure.
- **Q:** *Laurie Mertens-Black (City of Hollywood)* Does each dot equate to one complaint or multiple? Will the updated slides be available online?
 - A: Each dot is one complaint. All materials from the Technical Committee meeting will be posted online.
- **Q:** *Donna Peplin (City of Dania)* Are there homes (residential) included in the north runway contours?

A: Yes, there are residential units in the 65 DNL contour west of the airport.

- **Q:** *Lorie Mertens-Black (City of Hollywood)* Does the term "approved" mean that it is approved to be implemented?
 - **A:** The term "approved" means that they are approved by the FAA to be implemented and they are eligible for funding. Other measures can be implemented separately from the FAA process and funding.
 - A: *Peter Green (FAA)* Some measures may be determined as eligible for funding, but there is a process for the county to apply and obtain the funds. The funding cycle through the FAA is a year-long cycle. The County would need to go into the planning process for the next funding cycle.
- **Q:** *Rufus James (City of Fort Lauderdale)* When do you expect to submit recommendations to the FAA? When do you expect FAA to start the 180-day process?
 - A: Recommendations are submitted with the Noise Compatibility Plan. There will be another phase of soliciting public comments on the NCP and a review of the recommendations before submitting to the FAA. The 180-day process will probably start late 2019 or early 2020.

- **Q:** *Laurie Mertens-Black (City of Hollywood)* If a measure is disapproved by the FAA, does that mean it cannot be implemented at all or can the County still implement the measure?
 - **A:** *Peter Green (FAA)* There are some things the airport could be prohibited from doing; however, there may be other measures that are not determined eligible but could be addressed locally.
- **Q:** *Ben Sorenson (City of Fort Lauderdale)* If/when Metroplex is implemented, could this have a negative or positive impact on Fort Lauderdale?
 - **A:** It is important to be aware of what the FAA is proposing for Metroplex. However, since the timeline for Metroplex is uncertain, the Part 150 is moving forward with what is known as of today.
- **Q:** *Ben Sorenson (City of Fort Lauderdale)* What do we know about Metroplex for the purposes of the Part 150 project? Measures for mitigation or abatement could be affected by Metroplex positively or negatively and new measures may be needed due to Metroplex.
 - A: The FAA is in the process of developing arrival and departure procedures throughout the state of Florida. The program focuses on key commercial service airports including, MIA, PBI, FLL, MCO, TPA, etc. The FAA was planning on holding public outreach in February 2019; however, it may be put on hold due to the government shutdown. The Project Team will ensure that the Technical Committee receives the notice from FAA regarding Metroplex. It is important to ensure the public understands it is a separate process that we may learn more about later on.
- **Q:** *Laurie Mertens-Black (City of Hollywood)* What happens when it (Metroplex) has been implemented? Will there be a "re-look"?
 - A: Yes, once the procedures are published by FAA, they are refined over time. FLL could conduct an NEM update if needed.
 - A. Peter Green (FAA) Metroplex is being conducted by another part of the FAA (not the Airport District Office), but Metroplex is subject to NEPA (National Environmental Policy Act), which means the measures proposed by Metroplex will be evaluated in an environmental study. This will hopefully be in review by FAA end of 2019.
- **Q:** *Rufus James (City of Fort Lauderdale)* What is the schedule for the repaving of the north runway?
 - A: The repaying of the north runway is not a consideration for the Part 150 because it is temporary for only 4 months. BCAD responded that the airport is in the bid process now and will go to the board in mid-February. Work will begin June 5, 2019 for 120 days.
- **Q:** *Ben Sorenson (City of Fort Lauderdale)* Will the FAA be helping the Project Team through the process to ensure the recommendations that are submitted are adequate/reasonable?

A: Yes, the Project Team is working with the FAA extensively throughout the process.

- **Comment:** *Gary Luedtke (ANAC)* The airport had two objectives in 2013: 1) reduce the number of delays; and, 2) enhance safety margins by enhancing aircraft separations. The second goal has not yet been met.
- **Q:** *Chris Akagbosu (Broward County School Board)* Is the sound insulation process for residential only or can schools receive sound insulation?
 - **A:** If there are land uses in the area that are eligible that are non-residential, they can be included for sound insulation.
 - A: *Peter Green (FAA)* The DOT updated Florida Statutes regarding compatibility with land use around airports. There is guidance for areas such as schools. The Project Team should look at this as a resource for consideration.
- **Q:** *Rufus James (City of Fort Lauderdale)* Northeast of the airport there seems to be smaller, turboprop aircraft that fly over the beach at very low altitudes.
 - **A:** It is likely the General Aviation aircraft separated from the larger jet aircraft by ATC procedures.
- Q: Geoff Rames (City of Fort Lauderdale) I have been involved in this process since the south runway opened. When it opened, the airport instituted a 290-degree heading on the north runway for "safety" purposes. Noise complaints north of I-595 are because of the new 290-degree heading procedure. There were 25,000 complaints from this neighborhood in 2018. The problem with the contours is that it is an average, which results in contours that show that this neighborhood does not have unacceptable noise. The noise contours do not accurately reflect the noise issues in Broward County. Is the annual average contour the only contour developed in the Part 150 study?

A: Yes, it is the only contour developed that the FAA will accept.

Q: *Geoff Rames (City of Fort Lauderdale)* – Why can't the County tell the FAA that the results of the noise contours are not what is actually happening in our area? The way FAA does it is not right. Contours need to be developed on a short-term basis.

A: The airport is required to follow 14 CFR Part 150 requirements.

- **Q:** *Gary Luedtke* (*ANAC*) What was the panel that took place after the last Technical Meeting in November?
 - A: The meeting was for the Study Coordination Committee, whose purpose is to distribute information about the study to the community and sure the members of the community know about the project and associated meetings.
- **Comment:** *Donna Peplin (City of Dania)* Our neighbors have given up. I applaud Geoff's community for speaking up.

Working Session - NCP Recommendations:

Noise Abatement:

- 1. Restructure arrival and departure routes for North Runway to replicate arrival and departure routes from pre-2014 (ANAC)
- 2. Dedicate north runway as preferential runway used exclusively and primarily until it reaches capacity (ANAC)
- 3. In addition to preferential runway, simultaneous adoption of mandatory runway heading(s) (Ft. Lauderdale)
- 4. Mandatory 10pm 7am south runway curfew (ANAC)
- 5. Continued voluntary night closure (Dania Beach Interlocal Agreement)
- 6. Departure runway heading requirement (ANAC)
- 7. Use of close-in noise abatement departure procedure to north and south runways (ANAC)
- 8. Implementation of optimized profile descents (OPD) (Southwest Ranches)
- 9. Preferred arrivals on north runway and departures on south runway (ANAC)
- 10. Evaluate flight tracks of smaller turboprop and prop aircraft (Ft. Lauderdale)
- 11. No turn to 290-degree heading until runway end (TBD)
- 12. Nighttime south runway closure from 9PM 9AM (Dania Beach)

Land Use:

None

Programmatic:

- 1. Update monitoring system (ANAC)
- 2. Improve website reporting (ANAC)

Actionable Next Steps:

Schedule Technical Committee Meeting #6

Meeting Adjourned at 11:45 AM