

Community Noise Forum
Monday, November 23, 2015
Agenda

- I. Call to order: 6:00PM
- II. Minutes of September 28, 2015.
- III. Part 150 NCP
 - A. Update: Noise Insulation Program
 - B. Contraflow Exceptions
- IV. Current Noise Concerns
 - A. Noise Concerns/Complaints
 - B. Runway Utilization
 - C. Construction and Maintenance Activity
- V. Presentation by HMMH: Noise Exposure Map Update
- VI. FlyQuiet Awards
- VII. Announcements
- VIII. Next Meeting: January 25, 2016
- IX. Adjournment

Happy Holidays to All!

COMMUNITY NOISE FORUM (CNF)
Monday, September 28, 2015

Members

John Sistarenik, ANA
Tom Foote, UPS (sub)
Mary Rose Evans, LRAA Board
Brian Sinnwell, LRAA
Bob Slattery, LRAA

Verna Goatley, Metro
John Greathouse, Southwest Alt
Pat Gould, Northeast
Mike Zanone, Northwest
Bill Tate, FAA

Guests

Betsy Ruhe, Southern Pkwy.

The meeting was called to order at 6:00 p.m. by John Sistarenik. Since there was not a quorum at the July 27, 2015 meeting, the May 18, 2015 minutes were not approved. Therefore, the minutes were approved at the September meeting with one correction made to the spelling of Verna Goatley's last name. The minutes for May were approved, as corrected, by Mike Zanone and John Greathouse. Additionally, the minutes for the July meeting were approved as written by Verna Goatley and seconded by Mike Zanone.

Part 150 NCP:

A. Updates:

Phase 1, 2, 3A, 3A-1, 4A, 4B, 5, 6, 7 and 7LC: Sound insulation is complete. To date 542 of 688 families have received sound insulation.

Phase 3B: Awaiting easement resolution. Audubon Park has filed an appeal.

B. Contraflow Exceptions: Contraflow for July was **74% for arrivals** from the south and **80% for departures** to the south. In August, **arrivals** from south were 86% and **departures** to the south were **91%**. A daily summary for July and August is contained in the handout. As of September 4, 2015 arrivals are averaging 70% and departures average 80%. The 2 year average for arrivals from the south is 70% and departures to the south average 80%. A monthly summary going back 8 years is also included in the handout.

Current Noise Concerns:

A. Report on Noise Concerns/Complaints: We received a total of 18 comments in July. 8 comments were received at the QHP project office and 10 were received by the LRAA. In August we received a total of 25 comments. 14 were received at the QHP project office and 11 were received by the LRAA.

B. Runway Utilization: Runway utilization percentages for July and August are contained in the handout. Daily runway utilization for July and August as well as comments from the Air Traffic Control Tower are also included in the handout.

C. Construction and Maintenance Activity: Brian Sinnwell announced that the 11-29 Runway Safety Area project is underway and will be completed in November 2015.

Announcements: The group discussed nominations for the FlyQuiet Award to be given at the November meeting of the Community Noise Forum.

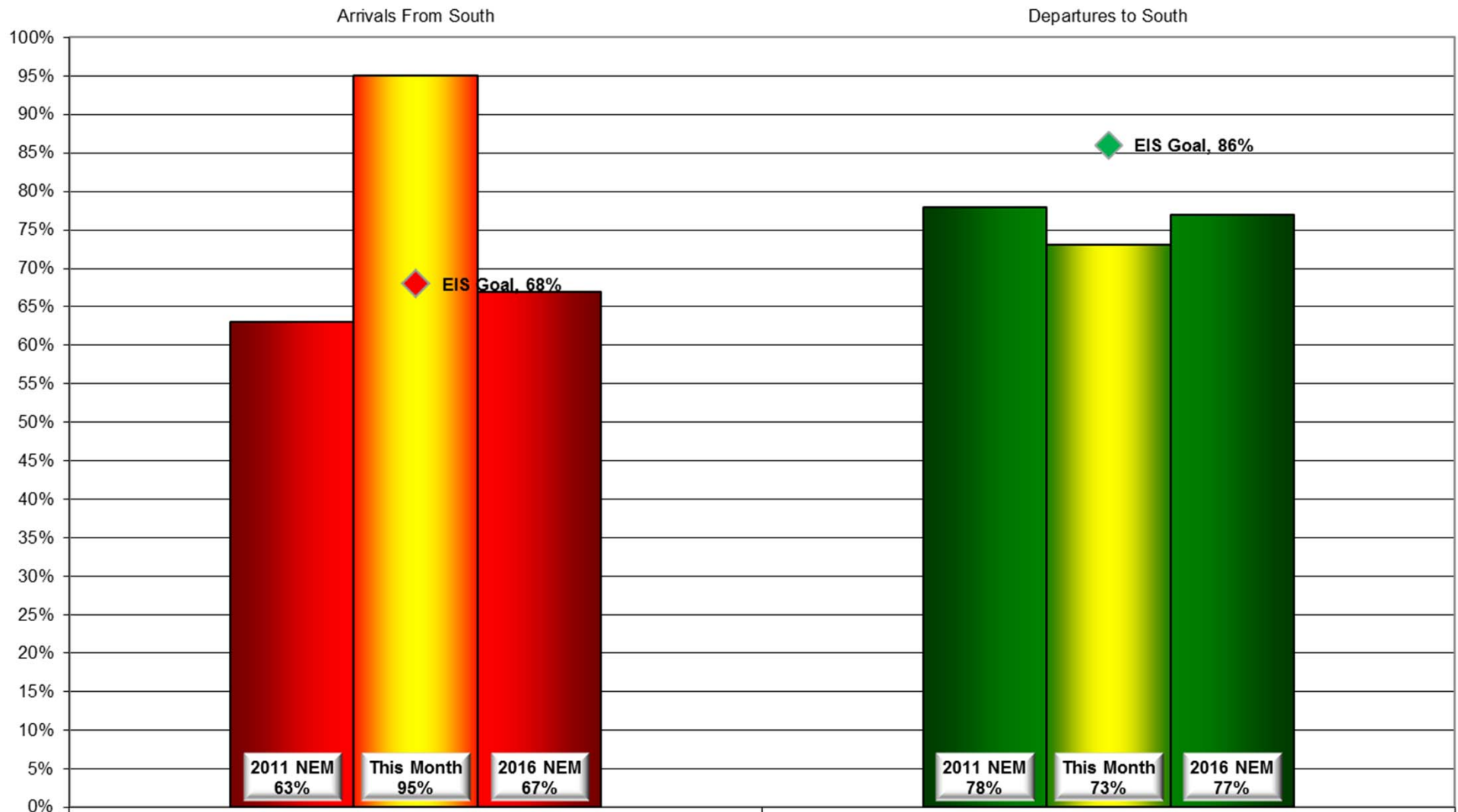
Bob announced that the contract for the noise exposure map update will be awarded at the October meeting of the LRAA Board. Bob suggested that the company awarded the project give a presentation at the November meeting.

Guest Comments: None.

Next Meeting: Monday, November 23, 2015 at 6 p.m.

Adjournment: A motion was made to adjourn the meeting at 6:39 p.m.

Monthly Contraflow September 1-30, 2015



Daily Runway Use Summary - September 2015

(from 10:00 PM date list in first column to 7:00 AM the following morning)

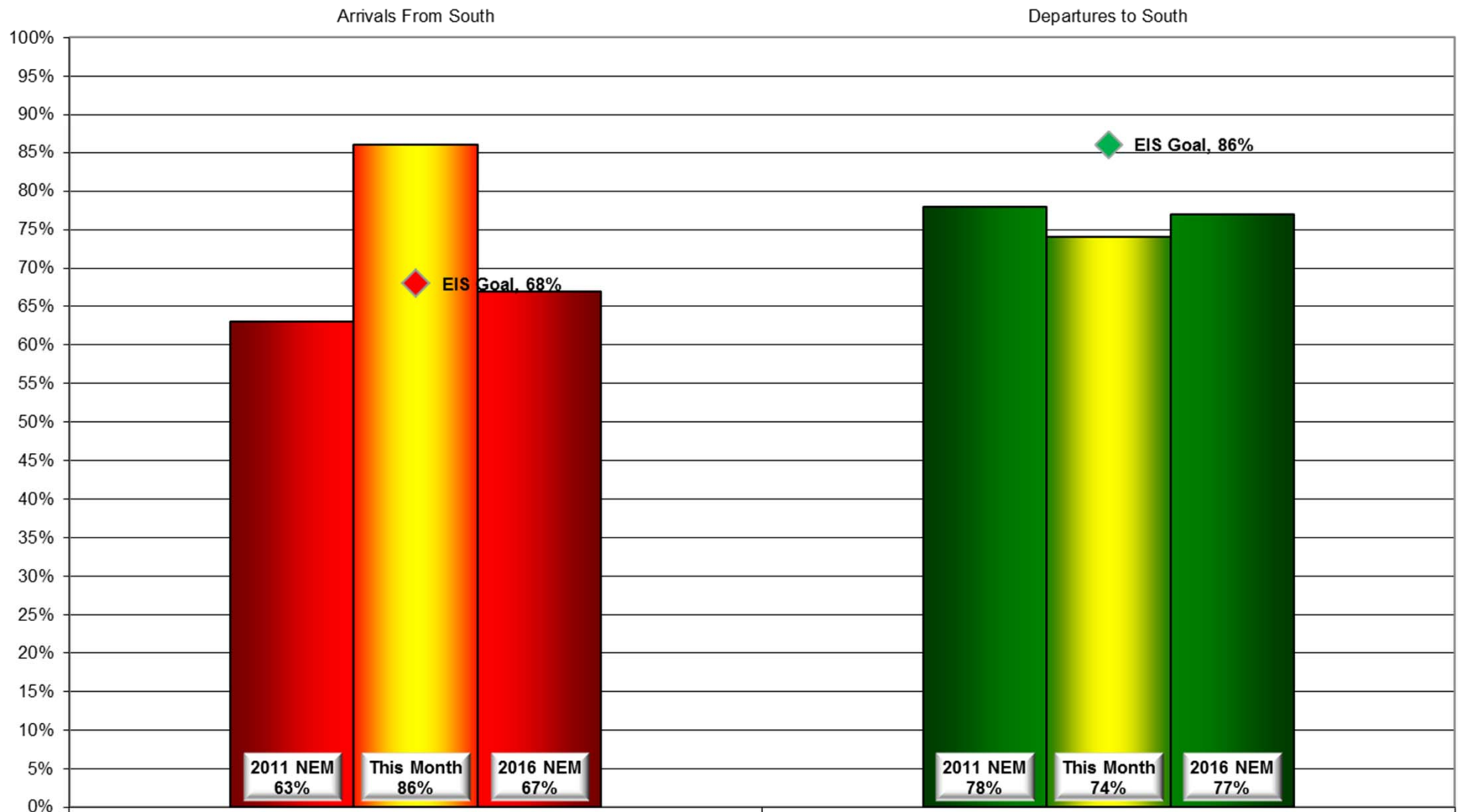
		% of all arrivals from the south										% of all departures to the south										
Date	Day	* in	Runway #							Unknown	Notes / Comments	** in	Runway #							Unknown	Notes / Comments	
		compliance	11	17L	17R	29	35L	35R	Use	Runway			compliance	11	17L	17R	29	35L	35R	Use		Runway
09/01/15	Tue	96%			4			60	36	0		97%			37	60			2	1	0	
09/02/15	Wed	97%			2	1		60	37	0		97%			39	58			1	2	0	
09/03/15	Thu	97%			2	1		60	37	0		96%			36	60			2	2	0	
09/04/15	Fri	93%			4	3		58	35	0		94%			39	55			5	1	0	
09/05/15	Sat																					
09/06/15	Sun																					
09/07/15	Mon	84%			16			58	26	0		99%			34	65			1		0	
09/08/15	Tue	88%			8	4		54	34	0		90%			32	58			6	4	0	
09/09/15	Wed	100%						59	41	0		0%							63	37	0	330-030@3-9knts,RA
09/10/15	Thu	98%			1	1		69	29	0		94%			33	61			4	2	0	
09/11/15	Fri	100%						60	40	0		0%							56	44	0	340-360@8-11knts
09/12/15	Sat																					
09/13/15	Sun																					
09/14/15	Mon	92%			6	2		55	37	0		91%			38	53			6	3	0	
09/15/15	Tue	89%			7	4		52	37	0		88%			38	50			7	5	0	
09/16/15	Wed	95%			4	1		57	38	0		94%			40	54			2	4	0	
09/17/15	Thu	89%			7	4		57	32	0		90%			36	54			2	8	0	
09/18/15	Fri	94%			2	4		58	36	0		99%			40	59			1		0	
09/19/15	Sat																					
09/20/15	Sun																					
09/21/15	Mon	96%			3	1		61	35	0		95%			38	57			2	3	0	
09/22/15	Tue	97%			2	1		56	41	0		96%			38	58			2	2	0	
09/23/15	Wed	97%			2	1		61	36	0		95%			39	56			3	2	0	
09/24/15	Thu	98%			1	1		58	40	0		94%			36	58			2	4	0	
09/25/15	Fri	90%			7	3		53	37	0		94%			37	57			5	1	0	
09/26/15	Sat																					
09/27/15	Sun																					
09/28/15	Mon	95%			4	1		54	41	0		5%			2	3			56	39	0	120-130@3-5knts,RA
09/29/15	Tue	100%						60	40	0		0%							57	43	0	360-030@7-14knts,G24,RA
09/30/15	Wed	100%						58	42	0		0%							54	46	0	360-010@8-10knts

Preferred Flow

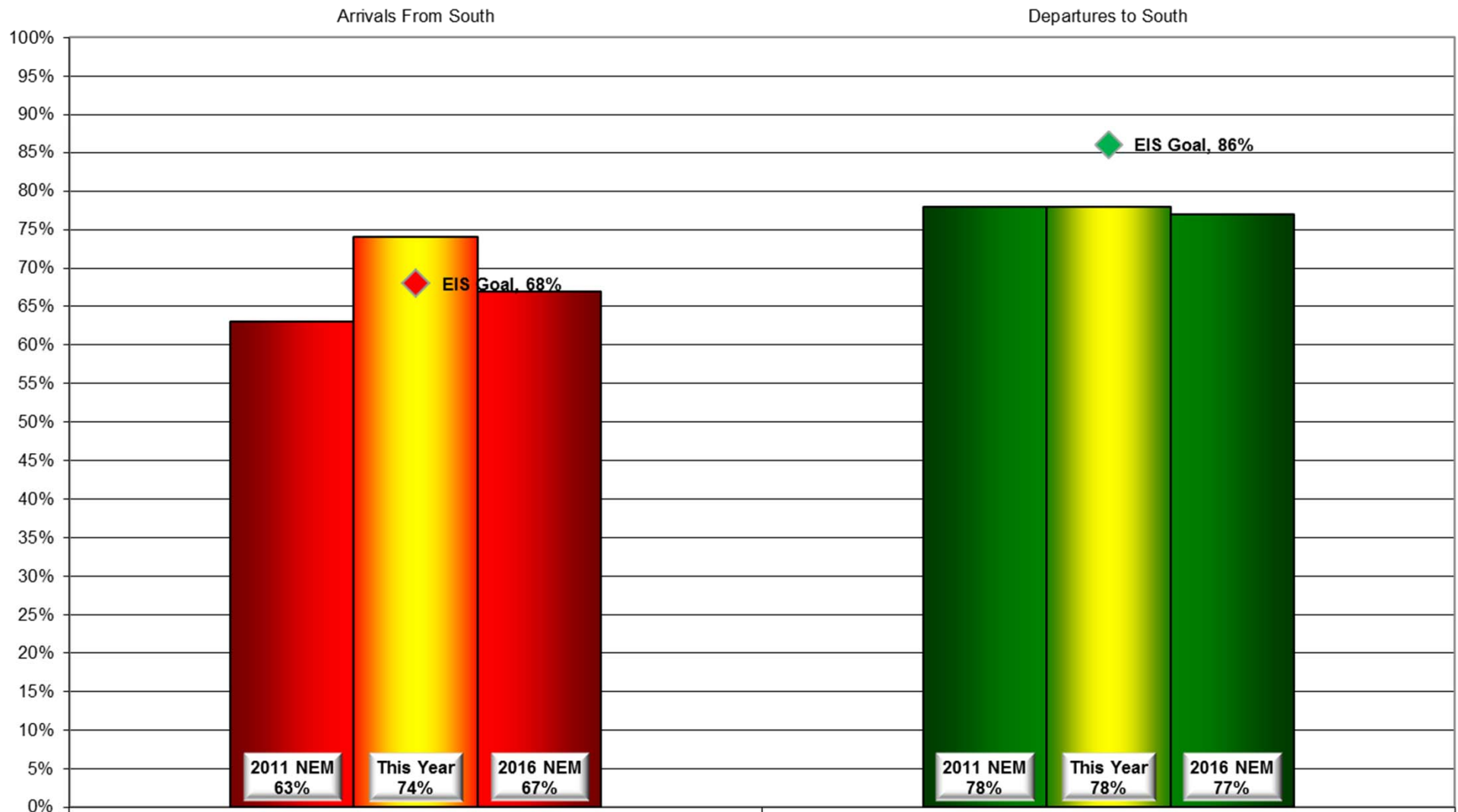
DATIS Reported Conditions Indicate
Support for Non-Preferred Flow

DATIS Reported Conditions Do Not Indicate
Support for Non-Preferred Flow

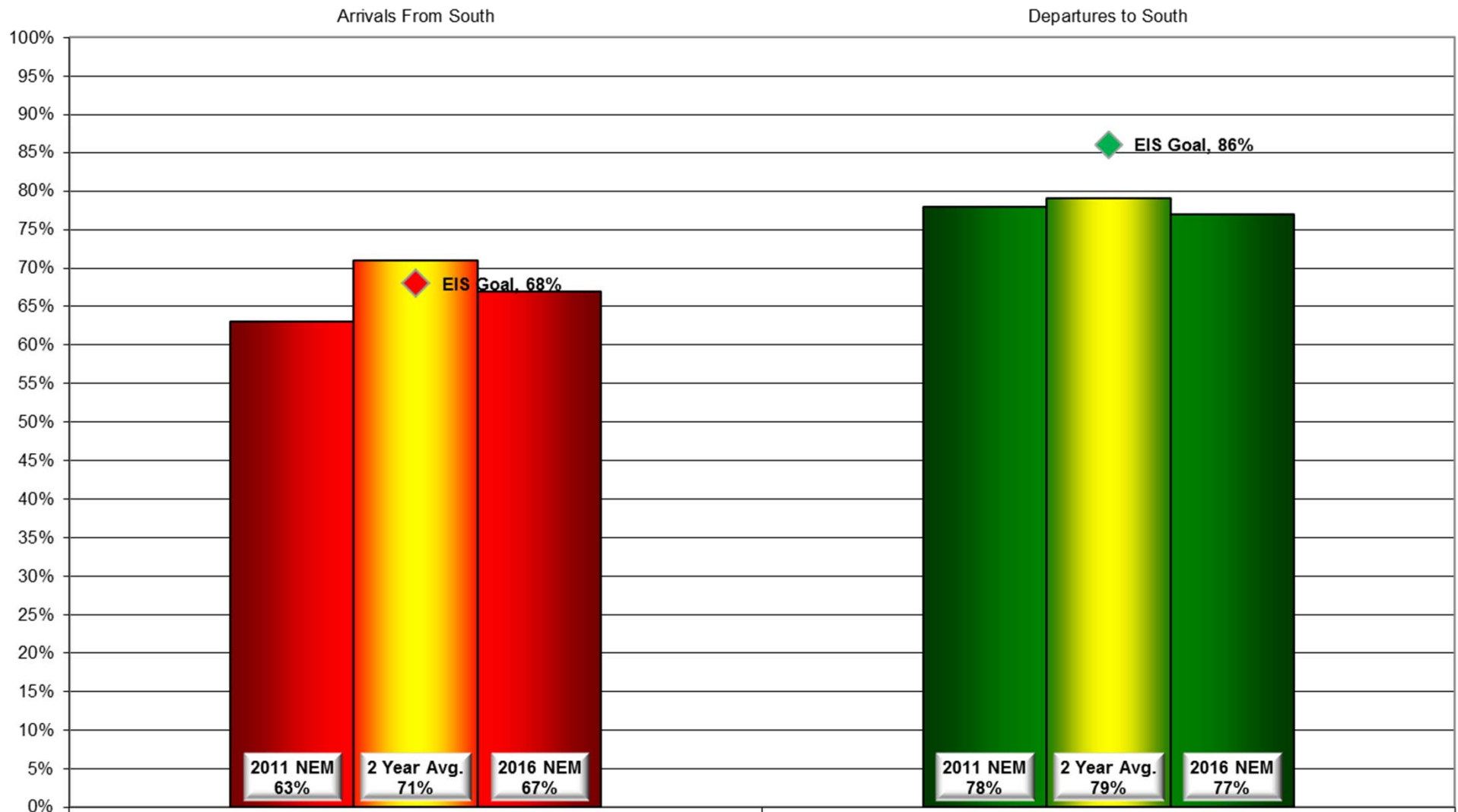
Monthly Contraflow October 1-30, 2015



Contraflow This Year As of October 30, 2015



Contraflow 2 Year Average November 2013 - October 2015



Year-to-Year by Month Percent* Contraflow

Arrivals From the South (Goal 68%)										Departures to the South (Goal 86%)									
	2008	2009	2010	2011	2012	2013	2014	2015	Avg		2008	2009	2010	2011	2012	2013	2014	2015	Avg
Jan	50%	63%	94%	91%	62%	72%	51%	76%	70%	Jan	80%	74%	54%	71%	80%	65%	81%	76%	73%
Feb	50%	49%	90%	73%	69%	77%	72%	66%	68%	Feb	74%	81%	71%	63%	74%	78%	71%	76%	74%
Mar	52%	46%	80%	52%	61%	87%	60%	71%	64%	Mar	68%	67%	82%	72%	96%	77%	77%	66%	76%
Apr	44%	53%	57%	47%	78%	60%	67%	53%	57%	Apr	92%	84%	84%	83%	76%	89%	83%	77%	84%
May	66%	66%	56%	69%	72%	46%	60%	75%	64%	May	78%	84%	87%	85%	81%	85%	92%	80%	84%
Jun	38%	72%	66%	61%	79%	76%	75%	57%	66%	Jun	93%	81%	96%	93%	87%	80%	91%	91%	89%
Jul	75%	72%	61%	91%	62%	74%	79%	74%	74%	Jul	84%	82%	90%	88%	92%	88%	85%	80%	86%
Aug	92%	61%	59%	82%	49%	84%	61%	86%	72%	Aug	77%	96%	92%	91%	91%	92%	92%	91%	90%
Sep	91%	89%	70%	85%	55%	86%	85%	95%	82%	Sep	73%	82%	73%	64%	92%	87%	86%	73%	79%
Oct	76%	42%	80%	88%	62%	87%	75%	86%	75%	Oct	77%	71%	78%	63%	78%	89%	79%	74%	76%
Nov	66%	74%	85%	55%	84%	73%	78%		72%	Nov	74%	73%	77%	72%	81%	83%	62%		75%
Dec	58%	71%	67%	70%	64%	58%	78%		65%	Dec	62%	65%	78%	65%	67%	71%	68%		69%
Avg	63%	63%	72%	72%	66%	73%	70%	74%		Avg	78%	78%	80%	76%	83%	82%	81%	78%	

*Number is percentage of all operations between 10:00 PM - 7:00 AM

Daily Runway Use Summary - October 2015

(from 10:00 PM date list in first column to 7:00 AM the following morning)

		% of all arrivals from the south										% of all departures to the south									
Date	Day	* in compliance	Runway #						Unknown Runway Use	Notes / Comments		** in compliance	Runway #						Unknown Runway Use	Notes / Comments	
			11	17L	17R	29	35L	35R					11	17L	17R	29	35L	35R			
10/01/15	Thu	100%						59	41	0		0%						52	48	0	020-030@10-13knts
10/02/15	Fri	100%						56	44	0		0%						55	45	0	030-060@7-15knts,G20
10/03/15	Sat																				
10/04/15	Sun																				
10/05/15	Mon	98%			2			58	40	0		94%			32	62		4	2	0	
10/06/15	Tue	96%			2	2		57	39	0		96%			37	59		2	2	0	
10/07/15	Wed	97%			3			56	41	0		93%			36	57		4	3	0	
10/08/15	Thu	96%			2	2		53	43	0		96%			41	55		2	2	0	
10/09/15	Fri	94%			1	5		55	39	0		0%						62	38	0	350-010@6-11knts
10/10/15	Sat																				
10/11/15	Sun																				
10/12/15	Mon	89%			10	1		54	35	0		95%			38	57		3	2	0	
10/13/15	Tue	98%			2			59	39	0		98%			40	58		1	1	0	
10/14/15	Wed	98%			2			54	44	0		98%			39	59		1	1	0	
10/15/15	Thu	100%						55	45	0		0%						54	46	0	310-350@4-11knts,G19
10/16/15	Fri	98%			1	1		58	40	0		7%			4	3		16	77	0	290-320@4-7knts
10/17/15	Sat																				
10/18/15	Sun																				
10/19/15	Mon	98%			2			59	39	0		94%			37	57		3	3	0	
10/20/15	Tue	96%			3	1		57	39	0		96%			38	58		1	3	0	
10/21/15	Wed	97%			2	1		58	39	0		96%			44	52		2	2	0	
10/22/15	Thu	96%			4			59	37	0		96%			38	58		2	2	0	
10/23/15	Fri	19%			40	41		15	4	0	140-150@4-7knts	98%			38	60		2		0	
10/24/15	Sat																				
10/25/15	Sun																				
10/26/15	Mon	95%			4	1		62	33	0		98%			40	58		1	1	0	
10/27/15	Tue	0%			51	49				0	110-150@9-11knts,RA	100%			36	64				0	
10/28/15	Wed	44%			27	29		29	15	0	220-280@5-13knts,RA	78%			33	45		15	7	0	210-280@4-11knts
10/29/15	Thu	96%			4			54	42	0		93%			37	56		3	4	0	
10/30/15	Fri	90%			7	3		58	32	0		98%			40	58		2		0	

Preferred Flow

DATIS Reported Conditions Indicate
Support for Non-Preferred Flow

DATIS Reported Conditions Do Not Indicate
Support for Non-Preferred Flow



***LOUISVILLE
REGIONAL
AIRPORT
AUTHORITY®***

NOISE COMMENT REPORT
September 2015

Comments (SDF/LOU)

September 2015

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Christian St	40213	2015-09-01 11:23:22	2015-09-01 11:23:22	SDF	Other	NE	Investigated	LQHP	None	Can you please advise if my home is eligible for the program? Most our plane noise comes from the UPS taking-off around 3 - 5 in the morning.
Atwood St	40217	2015-09-03 11:23:22	2015-09-03 11:23:22	SDF	Other	NE	Investigated	LQHP	None	Homeowner wanted to see if his property was in the program.
Loretta St	40213	2015-09-05 11:23:22	2015-09-05 11:23:22	SDF	Other	SE	Investigated	LQHP	None	I live in the Edgewood area and for many years you could not talk on your phone until the planes have passed. Many of the homes in my area have been bought by the airport due to sound and I'm sure for many other reasons and issues. The takeoffs at one point quit going directly over my home and that was nice. It was something my family truly looked forward to and enjoyed because of what we have dealt with for the past 30 plus years. I bought my mother's house after her passing. There is new and still old plane traffic and noise that comes over my house and I would at least like to see if there is a remedy for this issue. The traffic patterns have completely gone back to flying over my house and it is very disturbing. I was told about an insulation project you had going on for the residents previously and wanted to know if that program is still available for the residents that are still left in the neighborhood who are still dealing with the airplanes. Any and all information you can provide will be greatly appreciated.

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Non Standard: Indicates that a "Lesser Preferred" runway configuration was being utilized at the time of the comment.
QHP: QuieterHome Program

2. This column is used to indicate the conditions which most likely necessitated a deviation from the standard procedures.

Comments (SDF/LOU)

September 2015

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Louisa Ave	40217	2015-09-14 11:23:22	2015-09-14 11:23:22	SDF	Other	NE	Investigated	LQHP	None	My wife and I are nearing the close of our first home. My question is, is this residence in the eligible zone? As we've been in the home, we have heard the strong sound emitted when the airplanes would fly over. It rattled the home as well. So, with that said, is this address going to get the remodeling? From the sample size we have seen/heard, we believe it should.
Louisa Ave	40217	2015-09-15 11:23:22	2015-09-15 11:23:22	SDF	Other	NE	Investigated	LQHP	None	I recently asked if the home located on Louisa was available for the QuieterHome Program upgrades. It appeared the home was just outside of the boundary line, literally across the street. However, I came across a newspaper article discussing a tax credit for having new windows and insulation put into the home. Does this home qualify for this credit? I have attached the link to the newspaper article for reference.
Audubon Pkwy	40213	2015-09-15 11:30:22	2015-09-15 11:30:22	SDF	Other	NE	Investigated	LQHP	None	Homeowner called because she heard that the boundary lines would be moving to include her home.
Wolfe AV	40217	2015-09-17 11:30:22	2015-09-17 11:30:22	SDF	Other	NE	Investigated	LQHP	None	A friend of the homeowner called to ask about the status of the home being in the program.
Warbler Way	40213	2015-09-21 11:30:22	2015-09-21 11:30:22	SDF	Other	NE	Investigated	LQHP	None	I was curious about the QuieterHome project. My friends live down the road from me and had their windows and doors replaced. I was wondering which areas of town this was being offered?

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Comments (SDF/LOU)

September 2015

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Rosemary Dr	40213	2015-09-29 11:30:22	2015-09-29 11:30:22	SDF	Other	NE	Investigated	LQHP	None	Homeowner came over to see if the program will continue on his street. He said that they stopped at his neighbor's house and wanted to know when they would be starting again.
Rodman St	40208	2015-09-30 09:30:22	2015-09-30 09:30:22	SDF	Other	NE	Investigated	LQHP	None	Homeowner called to ask about how the sound program works and if they can be a part of it.
Harrison Ave	40217	2015-09-30 11:30:22	2015-09-30 11:30:22	SDF	Other	NE	Investigated	LQHP	None	Homeowner came in to ask about the windows being replaced in her home. She said that she has lived there for 20 years and needs to have something done. She mentioned calling one of the local TV news channels to come and record the noise at her house.
							Received	LQHP	11	
Drayton Dr	40205	2015-09-01 07:56:24	2015-09-01 07:50:25	LOU	Other	NE	Investigated	Standard	None	This morning between 7:50 a.m. and 7:54 a.m. three pops that sounded like gunshots have gone off over at Bowman Field. I am not saying they are gunshots but that is the best way for me to describe them. Last week the same thing happened early in the morning but I don't know what day it was but there were probably 4 or 5 of them. Could you get back with me and let me know what is going on over there? I would like to know as well as some other neighbors who have talked about this.
Eastern PKY	40217	2015-09-02 14:43:48	2015-09-02 14:15:48	SDF	Too Much Noise	NE	Investigated	Standard	None	At approximately 2:23 p.m. today I heard a plane approaching from the north that sounded much louder than normal. According to the flight tracking website, it was flight UPS4851. Could you please look into that?

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Comments (SDF/LOU)

September 2015

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Eagle Pass	40213	2015-09-15 10:22:39	2015-09-08 09:34:39	SDF	Vibrations	NE	Investigated	Standard	None	We spoke this past June and you told me to call or email if there were any circumstances where I was having issues with flight noise in my home. For the past week, there has been an abnormal amount of disturbance in my area (Eagle Pass) where planes are flying over my house and it is waking me and my partner up. The whole house is shaking from the sound. I know that we do not qualify for the QuieterHome program, but I am hoping there is something we can work out that would keep this from happening. I am happy to contact whoever necessary to try and get my area of town covered by the QuieterHome program just because we cannot afford to do all the necessary repairs and insulation. If there is anything you can point me towards that would be wonderful.
Trinity Park Dr	40213	2015-09-08 22:21:05	2015-09-08 22:00:05	SDF	Run-ups	SE	Investigated	Standard	None	It is about 10:25 p.m. now and there has been a loud roar going on for about 15 or 20 minutes. It is loud enough that I had to leave my back porch because I could not continue a conversation out there. It is unusual to have noise that loud to go on for that long. I am making a complaint about it because it is late at night and it really should not happen. It is starting to get a little softer now but it is still going on just not as loud as it was.

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S 1st St	40208	2015-09-11 09:57:57	2015-09-10 21:25:57	SDF	Other	NW	Investigated	Standard	None	I live in Old Louisville and have called in the past to talk about the noise problem. I want to report a drone flying from north to south down 1st Street last night at about 9:25 p.m. It was higher than the trees but below 400'. I called Metro Call but I don't think they knew what to do about it. I just wanted to let you know in case it is a problem.
Chasewood Pl	40229	2015-09-16 23:43:38	2015-09-16 23:15:38	SDF	Aircraft Off Course	SE	Investigated	Non-Standard	Ops	At 11:38 p.m. a UPS flight, it was either an A300 or 767 could not have been more than a few thousand feet above my house. I would like to know why this aircraft came in so low, especially over residential areas and when it did not follow the normal pattern into the airport at night.
Drayton Dr	40205	2015-09-21 22:44:23	2015-09-21 22:15:23	LOU	Noise At Wrong Time	NE	Investigated	Non-Standard	Ops	I am calling to complain about the plane that seems to be doing touch-and-go's after 10:00 p.m. It is pretty noisy and not what I usually expect from Bowman Field. So I wanted to officially register a complaint.
Landor Ave	40205	2015-09-21 22:31:27	2015-09-21 22:31:27	LOU	Other	NE	Investigated	Standard	None	Curious to know if there is a real time noise complaint feature or service for Bowman? Please advise.

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Lytle ST	40203	2015-09-23 12:11:08	2015-09-23 12:00:08	SDF	Aircraft Too Low	NW	Investigated	Standard	None	I have noticed more and more, especially UPS and even commercial plans and these planes are flying maybe a little less than 1000', so low that I can read UPS air on side of the plane. The sound level in our home is getting unbearable. We have called and complained about this before and now you have planes flying lower and more numerous directly over our house. If you are going to do that then you have a responsibility to us to reduce the noise level, insulate our home or something. This is horrible.
Lytle ST	40203	2015-09-23 12:25:30	2015-09-23 12:15:30	SDF	Aircraft Too Low	NW	Investigated	Standard	None	Another UPS plane just flew over our property really low, really noisy, really loud and really disturbing to the point that I am calling you and asking that you all make the planes fly higher or come insulate our home.
Ridge Line Dr	40207	2015-09-28 13:55:07	2015-09-27 03:00:07	SDF	Vibrations	NE	Investigated	Non-Standard	Ops	We are guessing that the National Guard has been flying twin rotor helicopters recently. One day they went over the house and shook the windows, and in the dining room, the light and the dishes in the china cabinet. It reminded my wife of a small earthquake she had experienced in California. On Sunday morning, helicopters passed over again. It was at 3:44 a.m. and 4:11 a.m. They woke everyone up. Could the flight path be changed to fly over the expressway, at a greater altitude, or not at ungodly hours?

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September 2015

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Rodman St	40208	2015-10-01 05:42:21	2015-09-30 23:00:00	SDF	Too Much Noise	NW	Investigated	Non-Standard	Weather	I currently reside on Rodman and the noise pollution between 11:00 p.m. and 7:00 a.m. is unbelievable. I need someone to contact me with help understanding what can be done to mitigate the intensity of planes flying so close and negatively impacting sleep patterns. It is 5:40 a.m. and I have been awake for three hours as the planes just stream in every 15-45 seconds.
							Received	LRAA	12	

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Non Standard: Indicates that a “Lesser Preferred” runway configuration was being utilized at the time of the comment.
QHP: QuieterHome Program

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Comment Location (SDF/LOU)

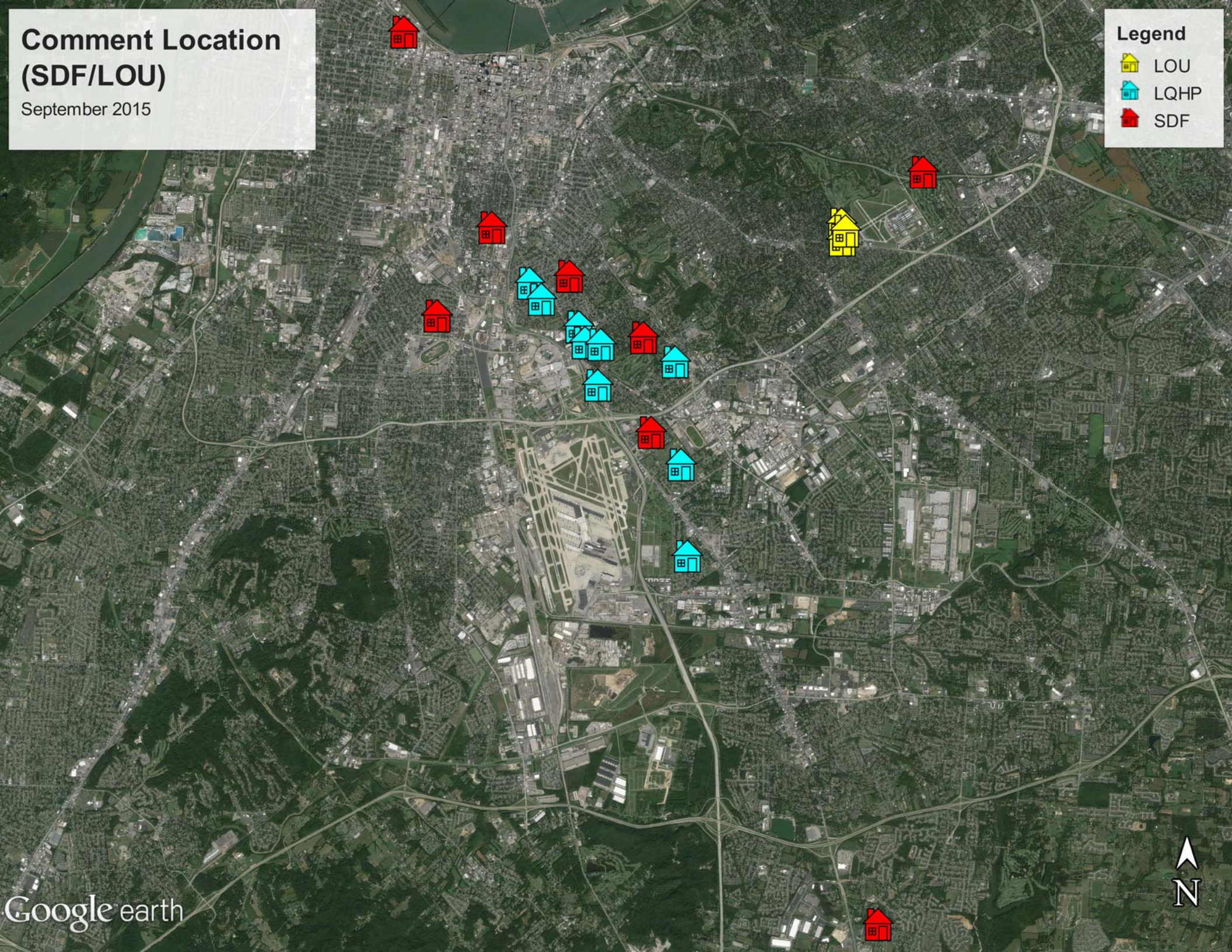
September 2015

Legend

 LOU

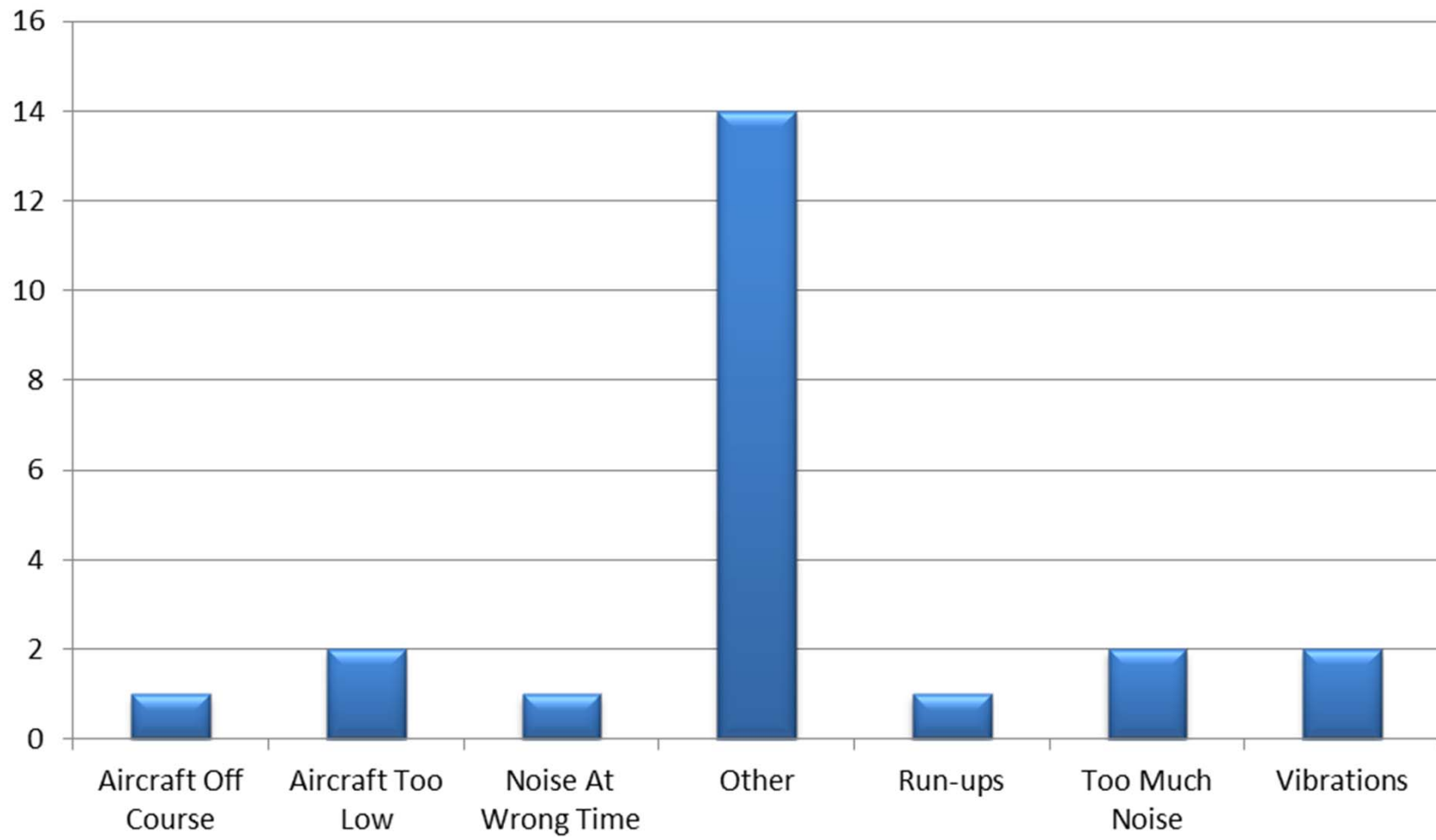
 LQHP

 SDF



Comment Type* (SDF and LOU)

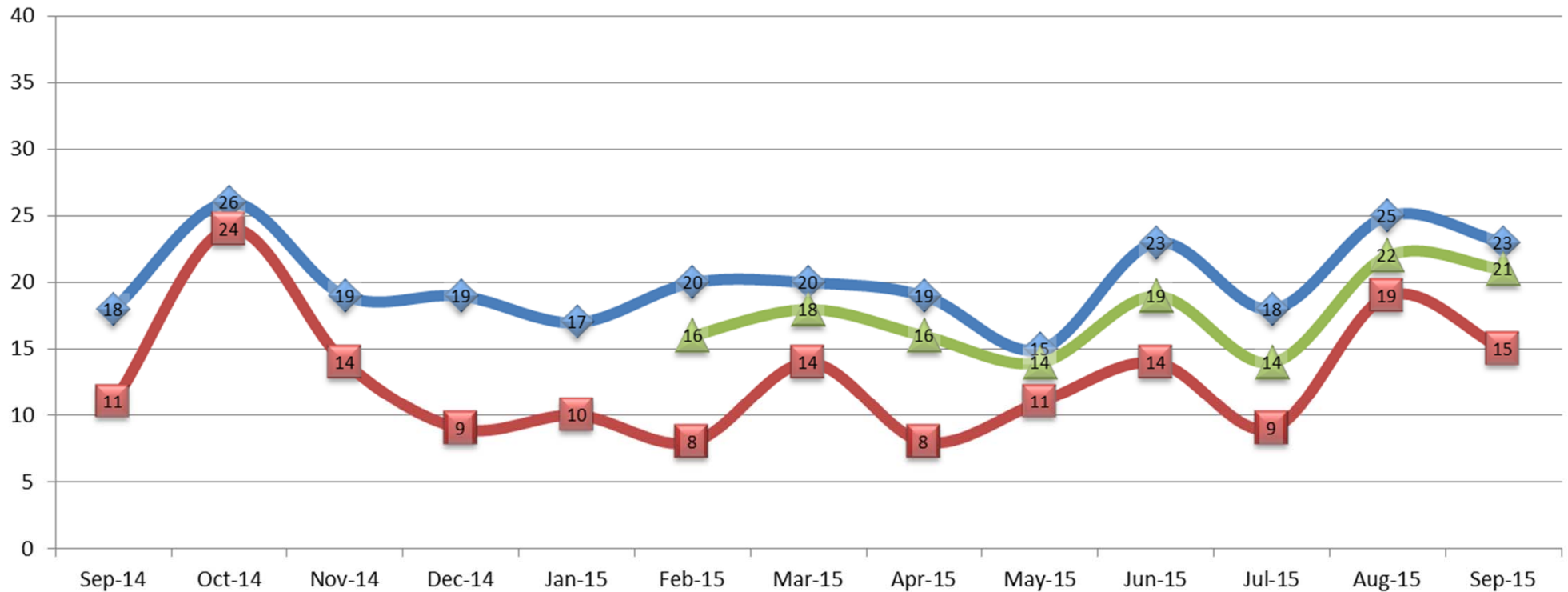
September 2015



New Address/Comments per Month (SDF and LOU)

September 2015

◆ Total Comments ■ New Callers ▲ Individual Callers





***LOUISVILLE
REGIONAL
AIRPORT
AUTHORITY®***

NOISE COMMENT REPORT

October 2015

Comments (SDF/LOU)

October 2015

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Roosevelt Ave	40213	2015-10-01 13:58:45	2015-10-01 13:58:45	SDF	Other	NE	Investigated	LQHP	None	Homeowner called to inquire about eligibility. She said that the planes fly right over her home and her house shakes. She said they took a lot of the homes around her and she was looking for some assistance with the sound insulation. She has lived there for 40 years.
Thruston Ave	40217	2015-10-01 13:58:45	2015-10-05 13:58:45	SDF	Other	NE	Investigated	LQHP	None	Is UPS taking a different pathway? They are coming right over the house and making a big disruption during the night, especially from 3 - 6 A.M., every 15 minutes. Is there a difference in the flight patterns from UPS vs. commercial?
S 6th St	40208	2015-10-13 09:58:45	2015-10-13 09:58:45	SDF	Other	NW	Investigated	LQHP	None	Homeowner called to see if his home is part of the program. He said that he can see the planes from his back porch.
Trinity Park Dr	40213	2015-10-26 09:58:45	2015-10-26 09:58:45	SDF	Other	SE	Investigated	LQHP	None	Is this address in any future programs? The noise from the airport is over the top! You can even smell the fuel from the jets!
Texas Ave	40217	2015-10-27 09:58:45	2015-10-27 09:58:45	SDF	Other	NE	Investigated	LQHP	None	New homeowner called to ask about being in the sound program since the planes fly overhead and the noise is loud.

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Comments (SDF/LOU)

October 2015

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Holly Ave	40118	2015-10-29 09:58:45	2015-10-29 09:58:45	SDF	Other	SW	Investigated	LQHP	None	I'm emailing you to inquire about the QuieterHome Program in Louisville. My husband and I recently purchased a home located just outside the Phase 7 boundary. We knew going in that the aircraft-generated noise would be substantial but we were wondering if this program had plans of expanding the number of homes that would be eligible for sound-insulation improvements.
							Received	LQHP	6	
Plover Rd	40213	2015-10-01 04:28:56	2015-10-01 04:00:56	SDF	Over Use of Runway	NE	Investigated	Non-Standard	Weather	I live by Audubon Park and this is the fourth night in a row that UPS has kept me up because they are flying overhead. Why aren't they flying to the south like they are supposed to be flying? I understand occasionally there is a weather problem but not for 4 nights in a row. How is somebody supposed to get up and drive to work the next morning after 4 nights without sleep? Can someone please call me back? Can you please have UPS do what UPS needs to do, and that is use the south runway like they are supposed to be doing.
S. 2nd St	40214	2015-10-01 05:01:24	2015-10-01 04:30:24	SDF	Over Use of Runway	SW	Investigated	Non-Standard	Weather	It is now 4:59 A.M. I hope you are having a great night because I have been listening to the airplanes go over our house constantly and this is nightly now. I backed off for a while and they keep flying more. So I keep my records and I will contact you again If you do not contact me. I want to know why the hell they are going over our house. All morning long, UPS.

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Comments (SDF/LOU)

October 2015

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Plover RD	40213	2015-10-02 12:31:26	2015-10-02 03:00:26	SDF	Noise At Wrong Time	NE	Investigated	Non-Standard	Weather	I am calling to complain yet again about the UPS bombing raids going on. The 5th night in a row UPS planes going to the north when they should be going to the south. This is the 5th night in a row they have done this and you all need to reach out to somebody and make them go in the direction they are supposed to go. That's to the south. Can someone please call me back?
Southern Pkwy	40214	2015-10-06 10:00:29	2015-10-05 22:15:09	SDF	Vibrations	SW	Investigated	Standard	None	I have lived here for about 10 years. Over the past couple of years it seems like about once a week we would get woke up by the UPS planes. For the past week or so it seems like it has been every night. It is rumbling my house and it is a combination of noise and rumbling. I think that if you were trying to break everyone in for a new runway then this is how you would do it. Last night it was horrible. Can you tell me anything that I can do to help with this problem?
Lytle St	40203	2015-10-07 10:06:10	2015-10-07 09:45:10	SDF	Aircraft Too Low	NW	Investigated	Non-Standard	None	When the planes used to fly over you could not see the landing gear and now you can. It is not every plane but it is a lot of them. It is very loud, a real loud high pitched noise. They were not doing this a year ago.
Fetter Av	40217	2015-10-07 22:09:23	2015-10-07 22:00:23	SDF	Aircraft Off Course	NE	Investigated	Standard	None	I hope you have a nice vacation it is 10:09 P.M. and I have had 2 huge planes screaming over my house on Fetter Avenue. It is very loud. I understand that the flight path is not directly over my house but it should be more towards Fetter and Alexander but it is directly over my house.

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Comments (SDF/LOU)

October 2015

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Cliffside Dr	40165	2015-10-09 08:01:53	2015-10-08 22:00:00	SDF	Too Much Noise	SW	Investigated	Standard	None	We live in Bullitt County on Cliffside Drive in Shepherdsville. Between 11:00 P.M. and 2:00 A.M. the UPS planes are non-stop. Being 10 miles from the airport you would think it wouldn't be bad but at about 2,000 feet it's horrible. It is about one plane every 2 minutes and it seems like it's getting worse.
Fetter Ave	40217	2015-10-11 22:10:00	2015-10-11 22:10:00	SDF	Too Much Noise	NE	Investigated	Standard	None	It is Sunday at 10:10 P.M. I live a good 240' from where the flight path is supposed to go over my home but I have planes going directly over my house. I also live a good 20' from where the edge of the QuieterHome Program, not the QuieterHome Program but whatever program you all have to do windows and doors for houses affected by airport noise. So, planes are going right over my house 240' from where they are supposed to go but I am 20' from where homes are mitigated for noise damage. It does not make a whole lot of sense.
Harrison Ave	40217	2015-10-13 16:50:52	2015-10-13 16:30:52	SDF	Too Much Noise	NE	Investigated	Non-Standard	Weather	I do not know how you can say that the noise stops at Preston. The planes are going over on both sides of me right now. It is very noisy and this is not fair.
1709 Lytle St	40203	2015-10-15 14:17:00	2015-10-15 14:16:00	SDF	Aircraft Too Low	NW	Investigated	Standard	None	At about 2:16 P.M. one of these planes just flew over very low. That information should give you a good idea of what we hear. I could not see what airline it was. But it sounded like UPS.

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Comments (SDF/LOU)

October 2015

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Lytle St	40203	2015-10-20 13:00:00	2015-10-20 12:50:33	SDF	Aircraft Too Low	NW	Investigated	Non-Standard	Weather	All the planes are flying lower. All this morning up until 1:00 PM they have been flying low and noisy. At approximately 12:50 P.M. there was a black, yellow and red plane that was a commercial jet. The rest of them have been pretty much UPS. This is like unreal. I don't know who I need to talk to but If they are going to continue to fly that low then we need to get someone to insulate the top part of our home. We can't even open our doors or our windows because you hear the sound coming through our window air conditioner.
Lytle St	40203	2015-10-22 10:18:48	2015-10-22 10:00:48	SDF	Aircraft Too Low	NW	Investigated	Non-Standard	None	The UPS plane that just went over at 10:14 A.M. is just like the ones I am talking about. The plane that came in at 10:24 A.M. did not bother us.

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Comments (SDF/LOU)

October 2015

Street	Zip Code	Time Received	Time	Airport	Disturbance Type	CNF Quad	Status	Operation or Comment Type ¹	Deviation Type ²	Comments
Lytle St	40203	2015-10-28 11:58:03	2015-10-28 11:58:03	SDF	Too Much Noise	NW	Investigated	Non-Standard	Weather	Your office is doing nothing but giving me the runaround. I did talk to some attorney and I was advised that I need to make a complaint with the 311 number so that it is documented. Because everything I am doing with you is undocumented. Also, I need to request in writing the results of their investigation. We at this point are going to proceed because you have had plenty of time. It has been over a year and you have done nothing but give me one excuse or story after another. So at this point, I feel like litigation is the answer and hopefully it will go into class action so it will make it a lot more powerful. Believe me; everyone in this neighborhood is going to know what this plane is, so freaking low and loud that I have to scream for you to hear me on the phone. This crap has got to stop, this is unreal. My next call is to 311 and I will ask for a written response into their investigation. I am tired of this life.
Lytle St	40203	2015-10-28 12:27:49	2015-10-28 12:15:00	SDF	Aircraft Too Low	NW	Investigated	Non-Standard	Weather	On October 28 at 12:26 P.M. this plane was really low. I think I have given you enough planes now that you can make a decision. I would like to know you're finding in writing if that is feasible. I doubt that it will be but anyway at this point we are going to do recordings and that is strictly for litigation purposes because I have reached my end with you and your department is doing absolutely nothing since last year.
							Received	LRAA	14	



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Comment Location (SDF/LOU)

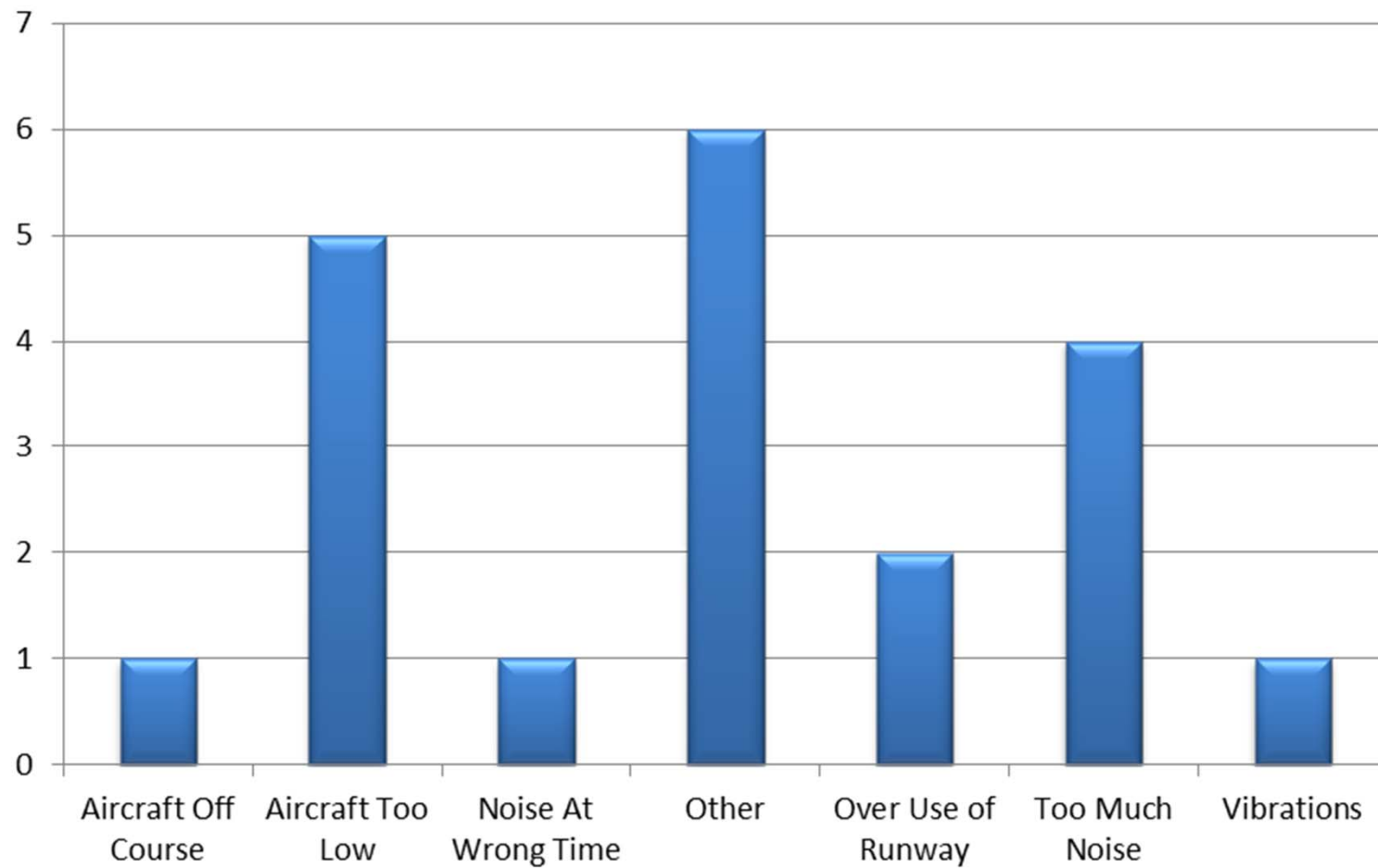
October 2015

Legend

-  LQHP
-  SDF

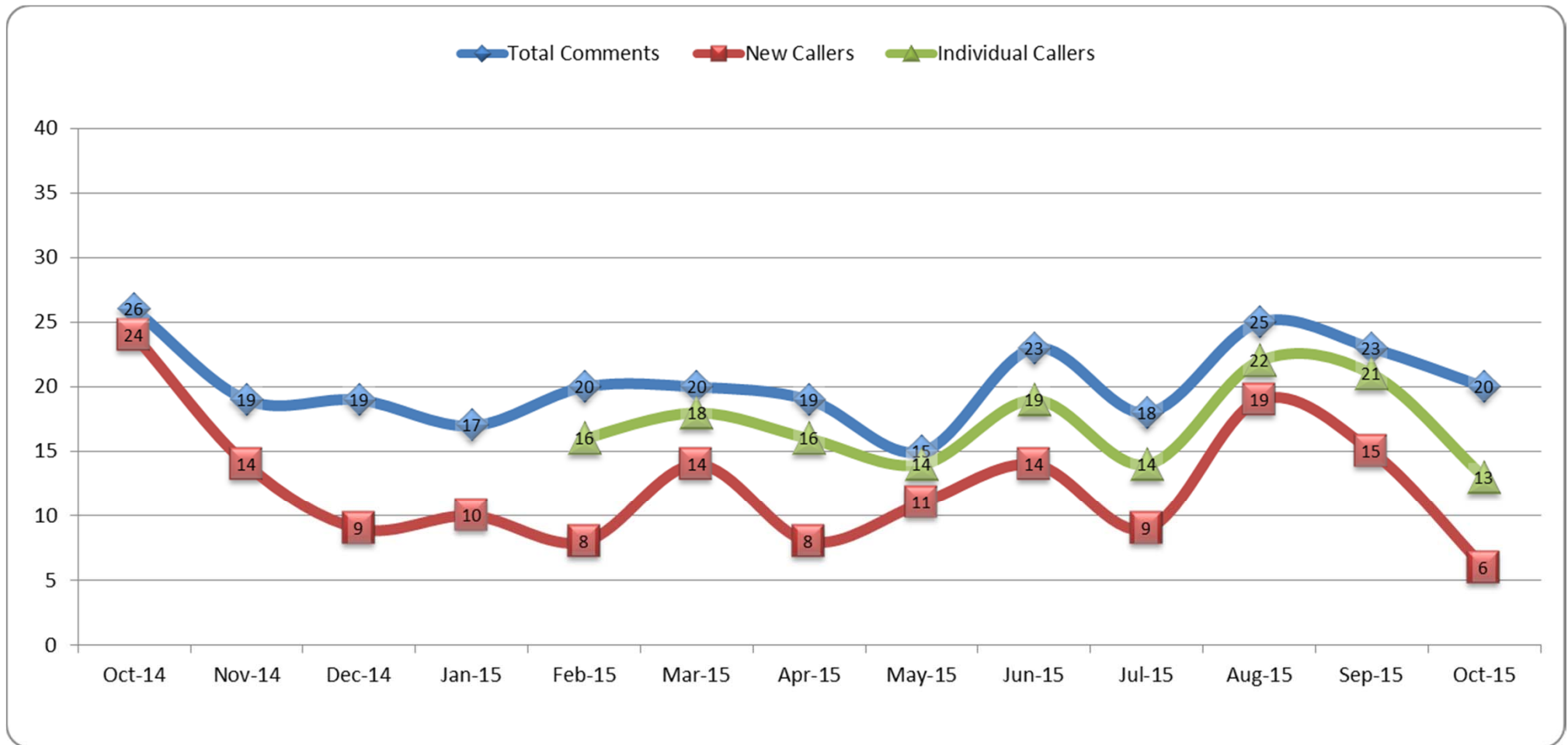
Comment Type* (SDF and LOU)

October 2015



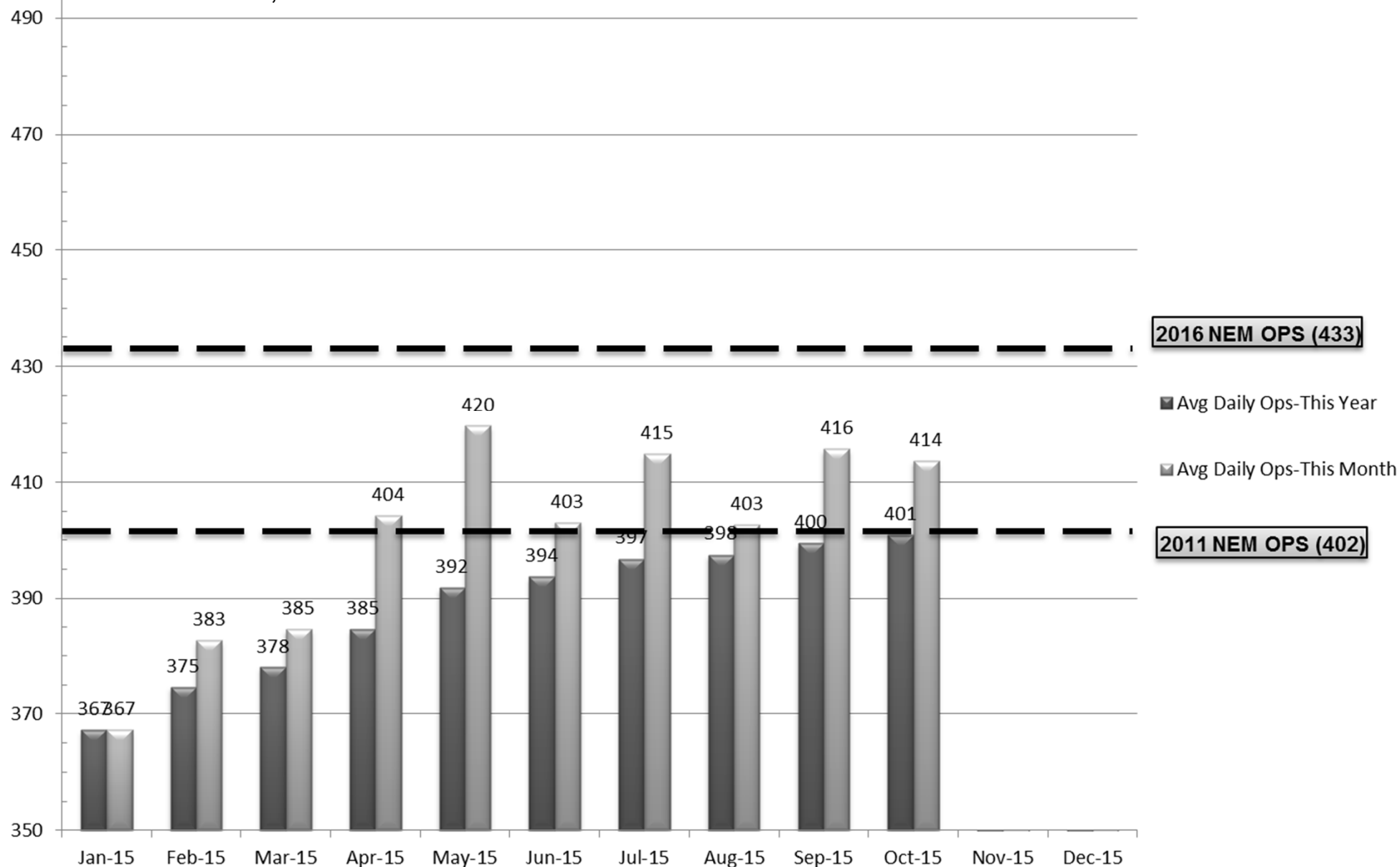
New Address/Comments per Month (SDF and LOU)

October 2015



Operations (SDF)

As of October 31, 2015



Source: Louisville <http://www.flylouisville.com/regional-airport-authority/reports-and-statistics/>

Daily Runway Use Uncorrected (SDF) September 2015

Flow	Time	Tue 9/1	Wed 9/2	Thu 9/3	Fri 9/4	Sat 9/5	Sun 9/6	Mon 9/7	Tue 9/8	Wed 9/9	Thu 9/10	Fri 9/11	Sat 9/12	Sun 9/13	Mon 9/14	Tue 9/15	Wed 9/16	Thu 9/17	Fri 9/18	Sat 9/19	Sun 9/20	Mon 9/21	Tue 9/22	Wed 9/23	Thu 9/24	Fri 9/25	Sat 9/26	Sun 9/27	Mon 9/28	Tue 9/29	Wed 9/30	Time
North Flow	0:00																															0:00
	0:30																															0:30
	1:00																															1:00
	1:30																															1:30
	2:00																															2:00
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South Flow	3:00																															3:00
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Flow	Time	Tue 9/1	Wed 9/2	Thu 9/3	Fri 9/4	Sat 9/5	Sun 9/6	Mon 9/7	Tue 9/8	Wed 9/9	Thu 9/10	Fri 9/11	Sat 9/12	Sun 9/13	Mon 9/14	Tue 9/15	Wed 9/16	Thu 9/17	Fri 9/18	Sat 9/19	Sun 9/20	Mon 9/21	Tue 9/22	Wed 9/23	Thu 9/24	Fri 9/25	Sat 9/26	Sun 9/27	Mon 9/28	Tue 9/29	Wed 9/30	Time

Daily Runway Use (SDF)

Tower Comments September 2015

Day	Date	Time	Comment
tue	1-Sep-15	0930-1230	R3704B activity and runway closures.
wed	2-Sep-15	1300-1330	Activity in R3704B.
thu	3-Sep-15		
fri	4-Sep-15		
sat	5-Sep-15		
sun	6-Sep-15		
mon	7-Sep-15	0930-1230	R3704B activity.
tue	8-Sep-15	0930-1130	East runway closed, constr near "hot spot".
wed	9-Sep-15	0930-1030	Flight check.
thu	10-Sep-15	1100-1500	Flight check.
fri	11-Sep-15		
sat	12-Sep-15	2200-0000	Wind 3310G15
sun	13-Sep-15	0300-0400	Wind 3410
sun	13-Sep-15	1030-1130	Wind 3609
sun	13-Sep-15	1700-1800	Wind 3210G18
mon	14-Sep-15		
tue	15-Sep-15	0930-1230	East runway closed, wind forecast north >8 kt.
wed	16-Sep-15		
thu	17-Sep-15		
fri	18-Sep-15		
sat	19-Sep-15		
sun	20-Sep-15	0300-0900	Wind 0110
sun	20-Sep-15	2200-0000	Wind 0309, went south 2230 when it decreased
mon	21-Sep-15	1530-2130	Wind 0410G16, pilots going around
tue	22-Sep-15	1300-1430	Wind 0309.
tue	22-Sep-15	1930-2130	Reason not documented.
wed	23-Sep-15		
thu	24-Sep-15		
fri	25-Sep-15		
sat	26-Sep-15		
sun	27-Sep-15		
mon	28-Sep-15		
tue	29-Sep-15	0300-0700	Weather south of airport.
wed	30-Sep-15	1900-2130	Wind 0210.

Daily Runway Use Uncorrected (SDF) October 2015

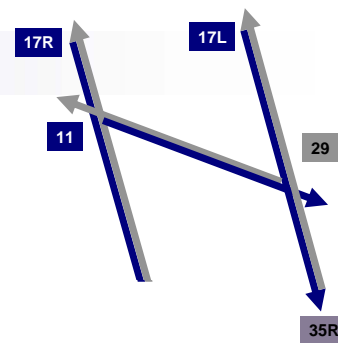
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Daily Runway Use (SDF)

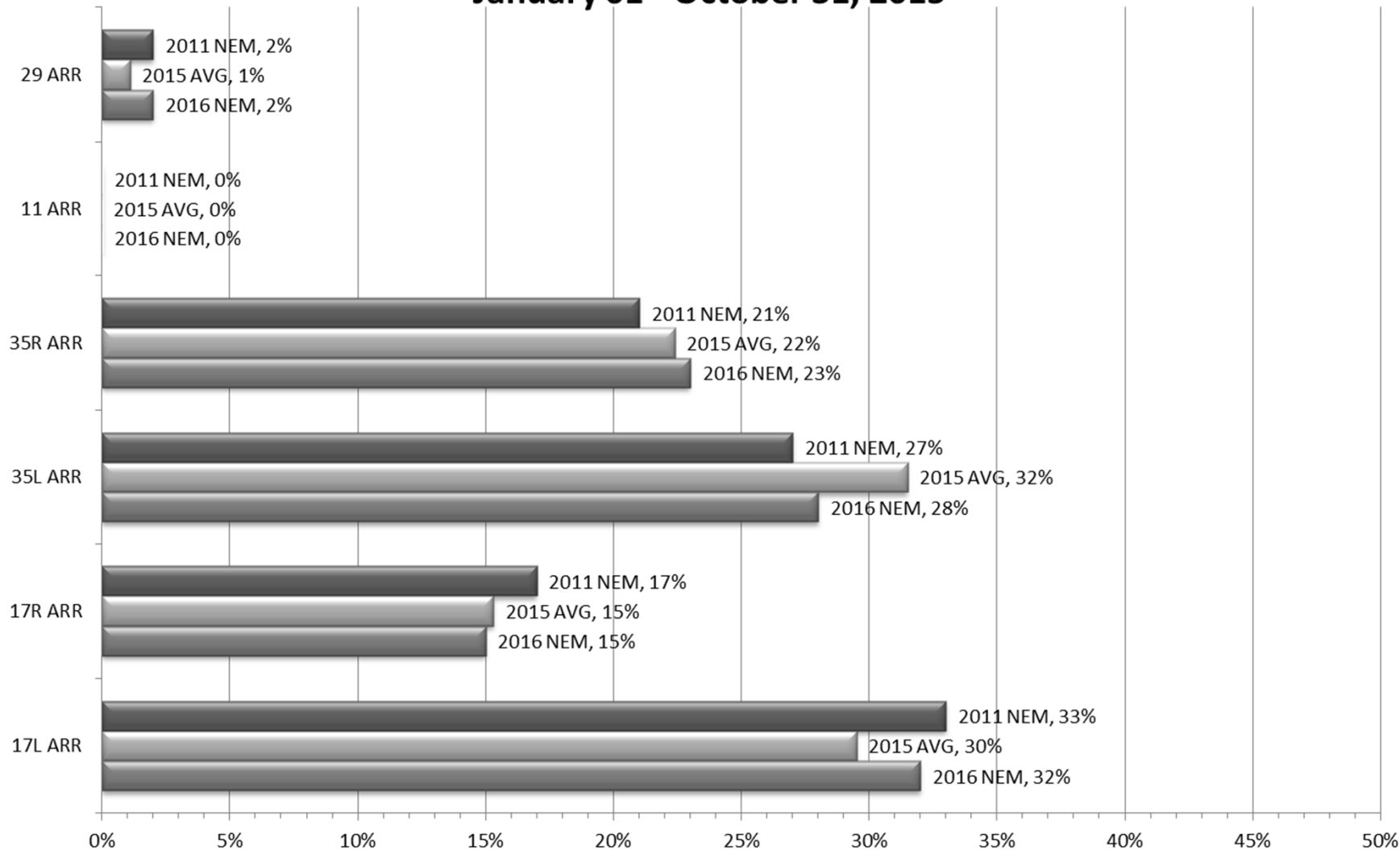
Tower Comments October 2015

Day	Date	Time	Comment
1-Oct-15	Thu		
2-Oct-15	Fri		
3-Oct-15	Sat		
4-Oct-15	Sun	0300-0500	Wind 0310, forecast 0109
5-Oct-15	Mon		
6-Oct-15	Tue	0930-1230	Runway closures & rubber removal.
7-Oct-15	Wed	0930-1000	Valid reason not documented.
8-Oct-15	Thu		
9-Oct-15	Fri		
10-Oct-15	Sat	0730-0900	Wind 0111
11-Oct-15	Sun		
12-Oct-15	Mon	0930-1030	Wind 2211G22
13-Oct-15	Tue	1130-1230	RWY/TWY closures, wind forecast 2211G20
13-Oct-15	Tue	1430-1530	Wind 3110G17
13-Oct-15	Tue	1830-2130	Wind 3113G18
14-Oct-15	Wed	1300-1630	Wind 2912G17
14-Oct-15	Wed	1900-2130	Wind 3011G18
15-Oct-15	Thu		
16-Oct-15	Fri	0730-0900	Wind forecast 358G14.
16-Oct-15	Fri	1830-2130	Wind 3311
17-Oct-15	Sat	0300-0700	Wind 3209
18-Oct-15	Sun		
19-Oct-15	Mon		
20-Oct-15	Tue		
21-Oct-15	Wed		
22-Oct-15	Thu	0930-1230	12 kt tail wind on short final.
23-Oct-15	Fri	1200-1230	Went early due to projected traffic at 1230.
23-Oct-15	Fri	2200-0000	Wind 1607
24-Oct-15	Sat	0000-0230	Wind 1510
25-Oct-15	Sun		
26-Oct-15	Mon		
27-Oct-15	Tue		
28-Oct-15	Wed	2200-0000	Wind 2207 wet runways
29-Oct-15	Thu	0000-0700	Wind 2810 wet runways
29-Oct-15	Thu	0930-1230	Wind 2518G 20
29-Oct-15	Thu	1600-1730	Wind 2917
30-Oct-15	Fri		
31-Oct-15	Sat		

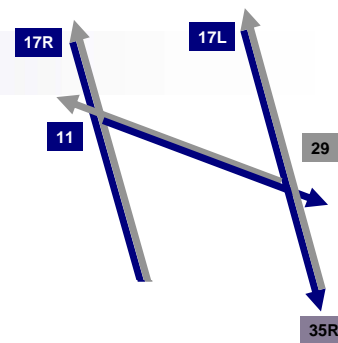
Runway Use (SDF Arrivals)



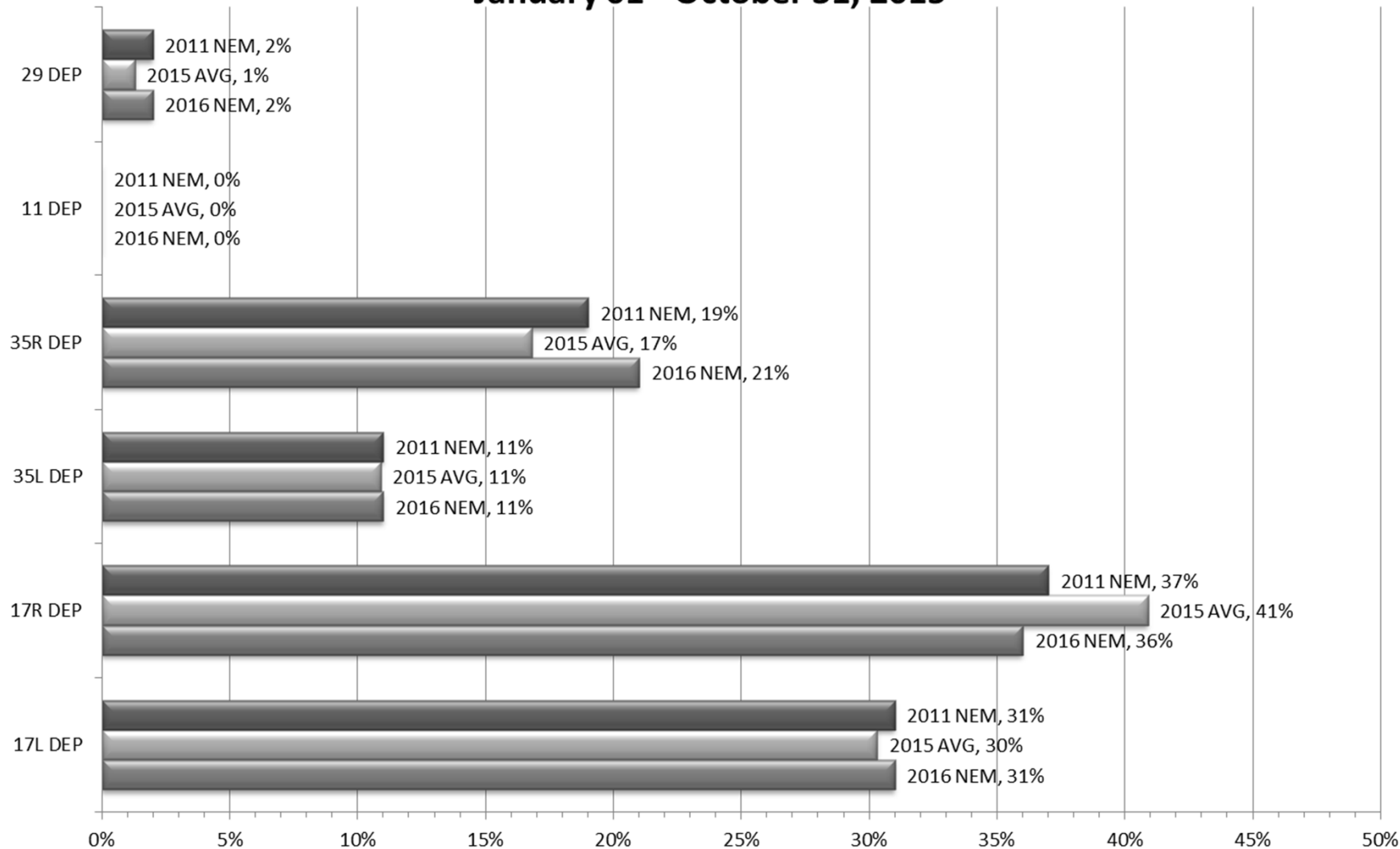
NEM vs. Actual January 01 - October 31, 2015

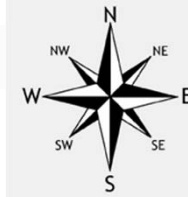


Runway Use (SDF Departures)



NEM vs. Actual January 01 - October 31, 2015



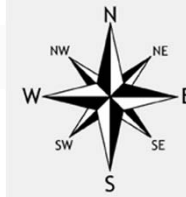


Runway Use 0930L-1230L_(SDF)

As of October 31, 2015

	Arrival Percentage by Runway							Arrival Count	Departure Percentage by Runway							Departure Count
	11	17L	17R	29	35L	35R	% From South		11	17L	17R	29	35L	35R	% To North	
Nov-13	0	29	12	0	39	20	59	721	0	26	19	3	12	40	52	437
Dec-13	0	14	13	0	42	31	73	943	0	14	16	0	9	61	70	460
Jan-14	0	27	21	2	29	21	50	682	0	28	21	4	19	37	56	401
Feb-14	0	13	11	7	37	32	69	669	0	19	11	7	15	48	63	359
Mar-14	0	25	21	7	29	18	47	675	0	30	18	4	7	41	48	408
Apr-14	0	33	19	5	23	20	43	700	0	39	19	6	9	27	36	416
May-14	0	32	25	0	24	19	43	706	0	36	22	1	5	36	41	387
Jun-14	0	27	22	0	36	15	51	643	0	36	20	2	10	32	42	389
Jul-14	0	12	12	0	44	32	76	733	0	12	10	0	20	58	78	410
Aug-14	0	13	2	0	54	31	85	673	0	11	6	0	27	56	83	407
Sep-14	0	14	8	0	38	40	78	668	0	11	11	0	20	58	78	388
Oct-14	0	30	20	0	25	25	50	767	0	35	16	0	5	44	49	414
Nov-14	0	11	15	8	44	22	66	610	0	16	14	11	10	49	59	335
Dec-14	0	22	13	0	38	27	65	959	0	24	16	1	8	51	59	373
Jan-15	0	17	6	0	45	32	77	619	0	15	8	3	22	52	74	313
Feb-15	0	14	18	0	37	31	68	619	0	12	15	2	10	61	71	317
Mar-15	0	9	17	0	47	27	74	662	0	10	15	0	28	47	75	396
Apr-15	0	20	15	14	37	14	51	667	0	24	21	16	23	16	39	371
May-15	0	28	23	0	38	11	49	656	0	33	27	0	19	21	40	358
Jun-15	0	21	22	0	42	15	57	683	0	30	22	0	17	31	48	349
Jul-15	0	12	25	0	42	21	63	827	0	17	21	0	15	47	62	403
Aug-15	0	15	25	0	38	22	60	712	0	20	19	0	15	46	61	365
Sep-15	0	7	24	0	36	33	69	796	0	11	20	0	13	56	69	407
Oct-15	0	19	31	0	26	24	50	784	0	20	25	0	2	53	55	411
Monthly Avg.	0	19	18	2	37	24	61		0	22	17	3	14	45	59	

Source: Louisville International Airport
Aircraft Flight Tracking and Noise Management System (AFTNMS)



Gate Compliance by Runway

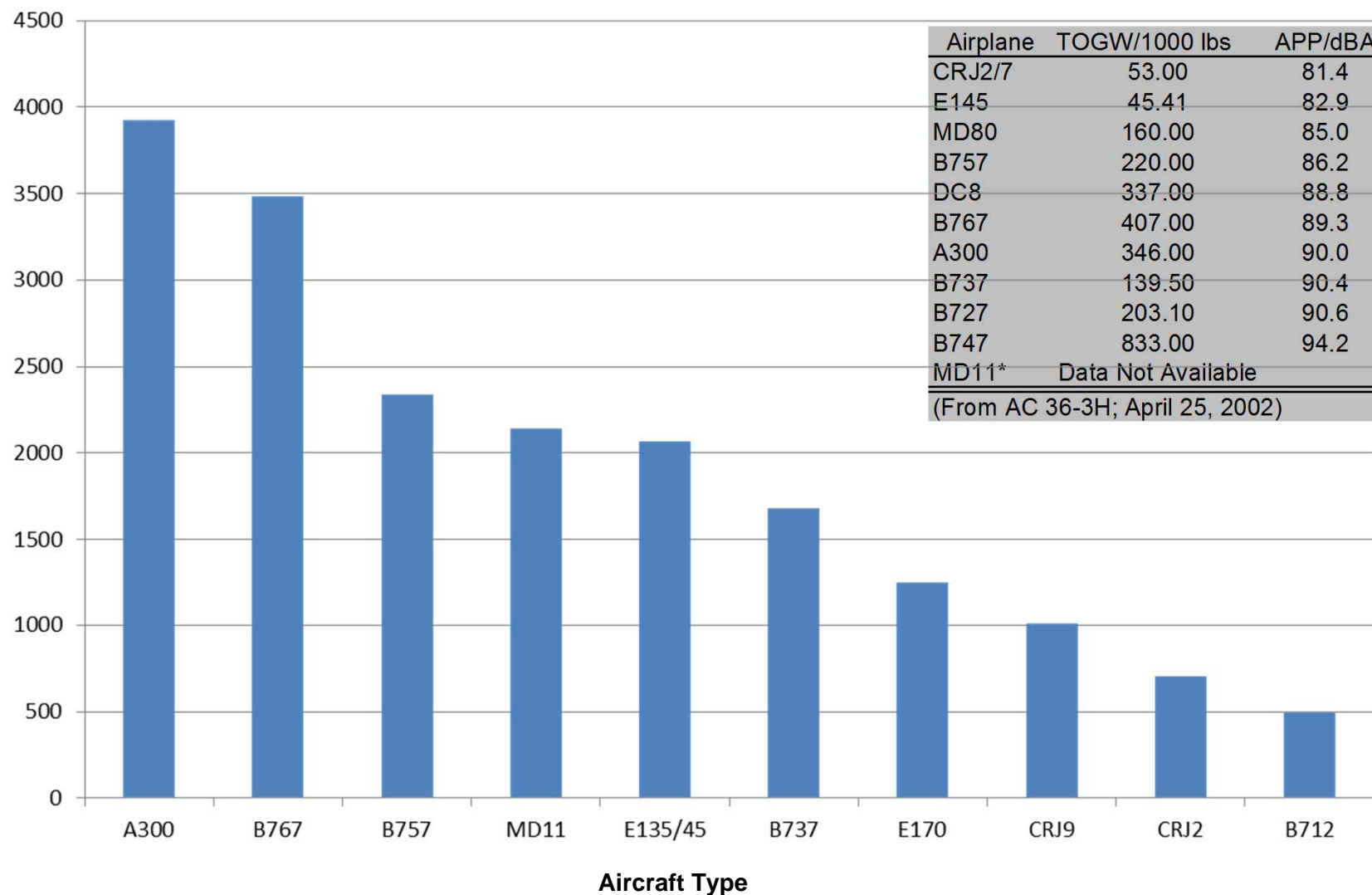
As of October 31, 2015

	ARRIVALS Percent Compliant					Departure Percent Compliant				
Month	17L	17R	35L	35R	ARR AVG	17L	17R	35L	35R	DEP AVG
Nov-13	77%	93%	80%	82%	83%	71%	91%	79%	92%	83%
Dec-13	82%	94%	90%	89%	89%	64%	87%	71%	89%	78%
Jan-14	78%	88%	86%	84%	84%	67%	91%	75%	89%	81%
Feb-14	80%	89%	86%	85%	85%	60%	90%	76%	89%	79%
Mar-14	74%	90%	79%	81%	81%	71%	86%	78%	87%	81%
Apr-14	79%	91%	82%	81%	83%	68%	81%	76%	86%	78%
May-14	75%	88%	78%	81%	81%	68%	85%	59%	82%	74%
Jun-14	82%	92%	86%	82%	86%	71%	89%	81%	94%	84%
Jul-14	79%	88%	78%	76%	80%	88%	89%	79%	92%	87%
Aug-14	84%	91%	82%	80%	84%	89%	85%	76%	90%	85%
Sep-14	81%	81%	81%	79%	81%	91%	88%	79%	92%	88%
Oct-14	82%	94%	88%	87%	88%	85%	88%	79%	92%	86%
Nov-14	80%	91%	91%	91%	88%	79%	92%	83%	87%	85%
Dec-14	91%	96%	93%	95%	94%	85%	89%	81%	88%	86%
Jan-15	80%	93%	90%	87%	88%	83%	93%	78%	88%	86%
Feb-15	80%	91%	87%	87%	86%	84%	93%	81%	92%	88%
Mar-15	78%	90%	88%	84%	85%	83%	88%	65%	86%	81%
Apr-15	83%	93%	80%	77%	83%	79%	86%	63%	82%	78%
May-15	79%	86%	84%	82%	83%	82%	87%	71%	90%	83%
Jun-15	80%	91%	87%	85%	86%	84%	89%	78%	91%	86%
Jul-15	86%	96%	88%	85%	89%	73%	86%	71%	87%	79%
Aug-15	81%	90%	82%	82%	84%	77%	88%	78%	88%	83%
Sep-15	79%	86%	84%	83%	83%	78%	88%	77%	91%	84%
Oct-15	82%	90%	88%	85%	86%	71%	88%	66%	86%	78%
24 Month Avg.					85%					82%

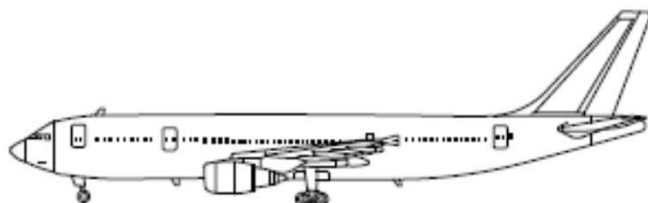
Source: Louisville International Airport
Aircraft Flight Tracking and Noise Management System (AFTNMS)

Operations by Aircraft Type (SDF) Only Top 10 Aircraft Types Shown

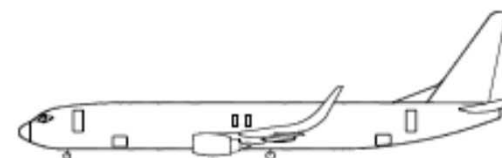
September / October 2015



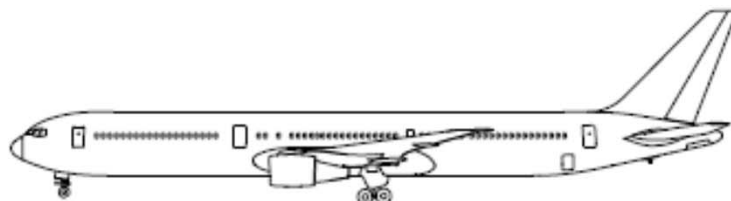
Sample Aircraft Types (SDF)



A300



B737



B767



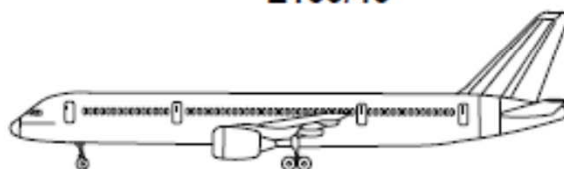
CRJ2



E135/45



E170



B757



MD80



MD11



CRJ9



**LOUISVILLE
REGIONAL
AIRPORT
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Louisville International Airport Noise Exposure Map Update

Community Noise Forum Meeting

November 23, 2015



Welcome and Introductions

- **Consultant Team Members**

- Gene Reindel, Principal-in-Charge
- Sean Doyle, Project Manager
- Marc Champigny, Forecast and Land Use Development
- Clair Nichols, Public Involvement Coordinator

- **Community Noise Forum**

- Round the table introductions
 - Name
 - Entity represented
 - Length of time on CNF
-

Louisville NEM Update

Consultant Project Team

- **HMMH**

- Project Management
- Noise Lead



- **C&S Companies**

- Aviation Forecast
- Land Use Verification



- **Guthrie/Mayes Public Relations**

- Community/CNF Liaison



Meeting Agenda

- **What is a Noise Exposure Map Update?**
 - **NEM Update Goals**
 - **Roles and Responsibilities**
 - **History of Part 150 at SDF**
 - **Public Participation Process**
 - **NEM Update Schedule**
 - **Beyond FAA Requirements for NEM**
 - **FAA Model - AEDT**
 - **Summary**
-

What is a Noise Exposure Map Update?

Airport Noise Compatibility Planning

- **Code of Federal Regulations (14 CFR) Part 150, “Airport Noise Compatibility Planning”**
 - Voluntary federal program
 - Over 250 airports have participated
 - Sets national standards for analysis
 - Provides access to federal funding
 - Aids in obtaining FAA implementation assistance
- **Part 150 has two principal technical elements**
 - Noise Exposure Map (NEM)
 - This project is an NEM update only
 - Noise Compatibility Program (NCP)
 - This project will not update the NCP



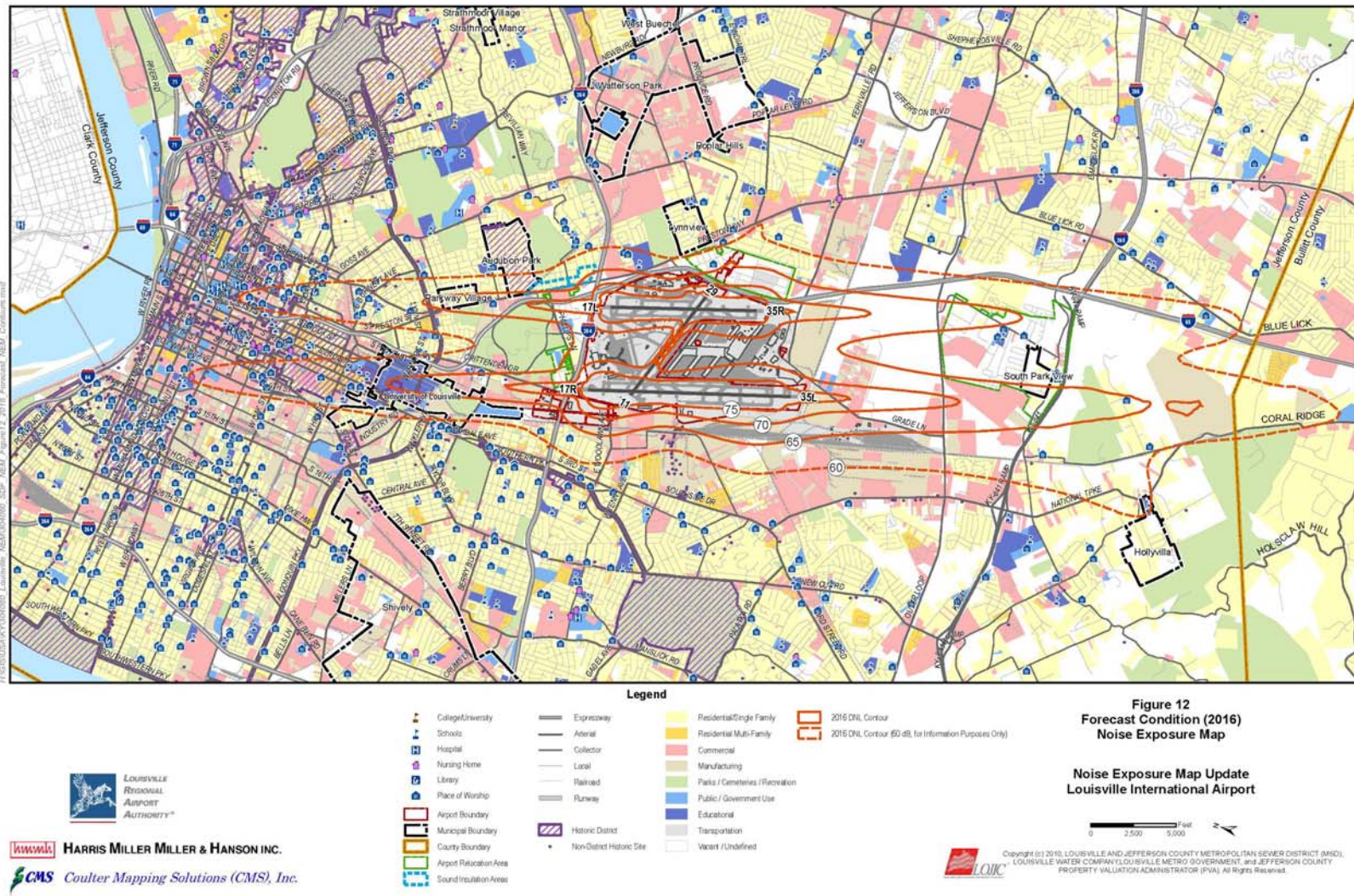
What is a Noise Exposure Map Update?

Noise Exposure Map (NEM)

- **The NEM describes:**
 - Airport layout and operation
 - Aircraft related noise exposure
 - Land uses in the airport environs
 - Noise/land use compatibility situation
 - **NEM must provide information for two timeframes**
 - Year of submission (2016)
 - Five-year forecast (2021)
 - **FAA Checklist**
 - Requires extensive documentation to comply
 - **Annual noise exposure depicted using “contours”**
-

What is a Noise Exposure Map Update?

FAA Accepted NEM Louisville International Airport – 2011



NEM Update Goals

Louisville NEM Update

- **Collect, analyze and report information regarding current and forecasted operations as it relates to:**
 - Aircraft noise
 - Land use compatibility
 - **Continue implementation of the Noise Compatibility Program**
 - **Public involvement**
 - Data and information sharing
-

Roles and Responsibilities

FAA's Noise Abatement Policy

Entity	Responsibility
U.S. Government	Noise emissions and flight procedures
Airport Proprietors	Plan / request implementation of noise abatement actions
State and Local Governments	Compatible land use planning, zoning, and housing regulations
Air Carriers (and other operators)	Comply with federal noise standards, and comply with noise abatement measures
Operators and Passengers	Bear the cost of noise reduction
Current and Prospective Residents	Understand airport noise and what steps can be taken to minimize its effect on people

Roles and Responsibilities

Louisville NEM Update

- **FAA**
 - Provides federal funding for NEM Update
 - Accepts NEM Update
 - **Authority – Airport Project Sponsor**
 - Contracts with consultant team
 - Certifies the NEM is accurate and complete
 - Submits NEM Update to the FAA for acceptance
 - **Consultant Team**
 - Conducts technical work
 - Generates NEM Update documentation per FAA requirements
-

Roles and Responsibilities

Louisville NEM Update

- **Community Noise Forum**

- The core advisory group
 - Receives regular project updates at bimonthly CNF meetings
 - Review and provide comments on project materials, for example:
 - Current aircraft operations (2014/2015)
 - Base case aircraft operations (2016)
 - Forecast aircraft operations (2021)
 - Existing and forecast land use within study area
 - Non-standard modeling inputs, if any
 - Review assumptions regarding alternative contours
 - Input on supplemental metrics
-

History of Part 150 at Louisville International Airport

- **Original NEM/NCP conducted in 1993, for 1991 base case and 1997 future conditions**
 - NEM accepted in October 1993
 - NCP approved in November 1994
 - Supplemental NCP approved in November 1995
 - **NEM/NCP update conducted in 2003 for 2003 base case and 2008 future conditions**
 - NEM accepted in November 2003
 - NCP approved in May 2004 for 20 measures in full and 8 measures in part out of 42 recommended
 - Record of Action issued August 2009 disapproving 3 additional measures
 - **NEM updated in 2011, for 2011 base case and 2016 future conditions**
 - NEM accepted in April 2011
-

Public Participation Process

- **Provide public with an opportunity for review of the Draft NEM Update and associated documentation**
 - **Request comments from public on Draft NEM Update**
 - **Have a public workshop:**
 - Overview of Draft NEM Update
 - One-on-one time with NEM Update project team
 - Information sharing
 - Education
-

NEM Update Schedule

Phase		Expected Completion Date
No.	Description	
1	Project Initiation	December 15, 2015
2	Data Collection and Forecast	May 15, 2016
3	Prepare Draft Noise Exposure Maps	September 15, 2016
4	Public Comment Period and Workshop	Sep-Oct, 2016
5	Prepare and Submit Noise Exposure Maps	November 15, 2016

Beyond FAA Requirements for NEM

- **Two supplemental noise metrics**
 - Number of aircraft noise events above 70 dB (N70)
 - Used to compare to outdoor speech interference
 - Alternative level to be set with CNF guidance
 - ***Note due to changes in the FAA noise model this metric may not be available***
 - Estimated time during a school day that instruction may be disrupted by aircraft noise at local educational facilities
-

Aviation Environmental Design Tool

- **As of May 29th 2015 all FAA sponsored aircraft noise evaluations must be conducted with the Aviation Environmental Design Tool (AEDT) version 2b**
 - This new tool replaces the Integrated Noise Model (INM) used for the previous SDF NEM update
 - **The underlying noise modeling properties remain unchanged between AEDT and INM, however substantial updates have been made effecting the noise modeling process**
-

Beyond FAA Requirements for NEM

- **Custom Model Track development and AEDT input formatting process provides:**
 - Full year of flight tracks (365 days) from the SDF flight tracking system
 - Sophisticated geometric algorithms convert flight track data recorded by the airport for every identified aircraft operation into AEDT model tracks
 - Models each operation on the specific runway that it actually used
 - Models each operation in the time-of-day in which that operation occurred
 - Selects the specific airframe and engine combination to model
 - **2014/2015 contours - adjust the number of modeled operations to agree with tower counts and airport records for a 2016 NEM submittal**
 - **2021 forecast contours - adjust the model to account for changes provided in the forecast**
-

Summary


NEM Update Process

- **Data collection (*Noise & Land Use Compatibility*)**
 - 365 days of aircraft operations (Noise)
 - Existing and forecast land use data (Land Use)
 - **Develop five-year forecast of aircraft operations**
 - **Develop noise model inputs**
 - **Run the Aviation Environmental Design Tool**
 - 2016 and 2021 noise exposure contours
 - Supplemental noise metrics
 - **Prepare draft Noise Exposure Map (NEM) documentation**
-



Thank You!

**Noise Exposure Map Update
Community Noise Forum Presentation
November 23, 2015**



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