Page 1	Page 3
PORT AUTHORITY OF NY & NEW JERSEY	APPEARANCES (Cont.):
NEW YORK COMMUNITY AVIATION ROUNDTABLE September 26, 2018 Kew Gardens, New York	Maria Figueroa Sharina Bryce Jackie Campbell Mike Anderson Clive Williams Dolores Orr Justin Connor
JANE ROSE REPORTING La Tonia Lewis, Court Reporter	Thomas Curry Dan Mundy Frieda Menos Patrick Evans Aidan Hughes Barbara Brown Conner Dunlevy Norman Jones Elaine Miller M. Chapoteau Andrew Brooks
FINAL COPY JANE ROSE REPORTING 1-800-825-3341	Jane Herndon Glenn Morse Edgar Mantel Terrence Cullen Suzanne Monteverdi
Page 2	Page 4
APPEARANCES:	1 Proceedings
Barbara Brown Bill Huisman Henry Schreiber Marie Becce Cindy Rogers Don Capalbi Susan Carroll Raida Hassain Allan Swisher Edward Braunstein Teresa Tai Jevaughn Williams Philippa Karteron Yvette Dennis Steven Jones James Hileman James Heyliger Beverly Brown Ralph Tamburra Andrew Weiss Len Schaner Stacy Gilbert	MR. SCHREIBER: Good evening, everyone. I want to thank everyone for being here. I am Henry Schreiber one of the co-chairs for the aviation roundtable. First thing we're going to do quickly if we can go around the room and introduce ourselves. MR. HUISMAN: Bill Huisman, Aviation Development Council, also facilitator for the New York Community Aviation Roundtable and also the JFK and LaGuardia communities. MS. BECCE: Maria Becce, I represent Congresswoman Grace Meng. MS. ORR: Dolores Orr, Community Board 14, the Rockaways. MR. MUNDY: Dan Mundy representing Congressman Meeks. MR. EDWARDS: Joseph Edwards, Congressman Meeks. MS. MILLER: Elaine Miller, citizen member, LaGuardia Community. MS. FIGUEROA: Maria Figueroa,

	Page 5		Page 7
1	Proceedings	1	Proceedings
2	MS. MENOS: Frieda Menos,	2	Authority.
3	Congressman Jeffries' office.	3	MR. HARDEN: Bill Harden, member of
4	MS. CARROLL: Susan Carroll	4	the Center of the National Association
5	representing Queens Borough President	5	(inaudible).
6	Melinda Katz on LaGuardia Committee.	6	MS. O'CONNOR: Wendy O'Connor, FAA
7	MR. CHEN: Ron Chen, member of New	7	headquarters for traffic services.
8	York City Assembly Professional Board.	8	MR. JONES: Steven Jones, Federal
9	MR. SWISHER: Allan Swisher for	9	
10		10	Aviation Administration.
11	Queens Borough President Melinda Katz.	11	MR. BOWMAN: Jim Bowman, Federal
	MS. KARTERON: Philippa Karteron,	12	Aviation Administration.
12 13	JFK Chamber of Commerce.	13	MR. BROOKS: Andrew Brooks, Federal
	MR. HILEMAN: James Hileman		Aviation Administration.
14	(inaudible).	14	MR. CONNOR: Justin Connor, office
15	MS. GREEN: Yvette Green	15	of Congressman Tom Suozzi and I have Cindy
16	(inaudible).	16	Rogers our assistant district director
17	MR. SCHANER: Len Schaner,	17	coming also.
18	Quietskies.net.	18	MR. CURRY: Tom Curry,
19	MS. GOLDENBERG: Jana Goldenberg,	19	representative of Kathleen Rice.
20	Queens Sense.	20	MR. WEISS: Andrew Weiss, Town of
21	MS. LASITA: Maria Lasita,	21	Hempstead.
22	(phonetic) Corona resident.	22	MR. SMITH: Dennis Smith, Whitestone
23	MR. FRANKEL: David Frankel, Roslyn	23	Bayside guest.
24	Heights.	24	MS. CHAPOTEAU: Marilyn Chapoteau
25	MR. CAPALBI: Don Capalbi,	25	for the Part 150 study.
1	Page 6 Proceedings	1	Page 8 Proceedings
2			
_	Congresswoman Meng	2	
3	Congresswoman Meng. MS_CII_REPT: Stacy_Gilbert_Port	2	MR. SCHREIBER: Bill, before you go,
3	MS. GILBERT: Stacy Gilbert, Port	3	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of
4	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations.	3 4	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead?
4 5	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port	3 4 5	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss.
4 5 6	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority.	3 4 5 6	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should
4 5 6 7	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes,	3 4 5 6 7	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table.
4 5 6 7 8	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky.	3 4 5 6 7 8	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port
4 5 6 7 8 9	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic)	3 4 5 6 7 8 9	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation.
4 5 6 7 8 9	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible).	3 4 5 6 7 8 9	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough
4 5 6 7 8 9 10	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria	3 4 5 6 7 8 9 10	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president.
4 5 6 7 8 9 10 11	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough	3 4 5 6 7 8 9 10 11 12	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting
4 5 6 7 8 9 10 11 12 13	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport	3 4 5 6 7 8 9 10 11 12 13	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and
4 5 6 7 8 9 10 11 12 13 14	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport Committee.	3 4 5 6 7 8 9 10 11 12 13	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and guests, I just wanted to mention that we
4 5 6 7 8 9 10 11 12 13 14 15	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport Committee. MEMBER BROWN: Stephanie Brown	3 4 5 6 7 8 9 10 11 12 13 14	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and guests, I just wanted to mention that we have a different room than we normally
4 5 6 7 8 9 10 11 12 13 14 15 16	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport Committee. MEMBER BROWN: Stephanie Brown representing Council Member Donovan	3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and guests, I just wanted to mention that we have a different room than we normally have here. But we want to thank Alan
4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport Committee. MEMBER BROWN: Stephanie Brown representing Council Member Donovan Richards.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and guests, I just wanted to mention that we have a different room than we normally have here. But we want to thank Alan Swisher and the Queens borough president's
4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport Committee. MEMBER BROWN: Stephanie Brown representing Council Member Donovan Richards. MR. HOPPENHAUER: Larry Hoppenhauer,	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and guests, I just wanted to mention that we have a different room than we normally have here. But we want to thank Alan Swisher and the Queens borough president's office, of course, for making this room
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport Committee. MEMBER BROWN: Stephanie Brown representing Council Member Donovan Richards. MR. HOPPENHAUER: Larry Hoppenhauer, citizen member.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and guests, I just wanted to mention that we have a different room than we normally have here. But we want to thank Alan Swisher and the Queens borough president's office, of course, for making this room available to us. I know that the Chairs
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport Committee. MEMBER BROWN: Stephanie Brown representing Council Member Donovan Richards. MR. HOPPENHAUER: Larry Hoppenhauer, citizen member. MS. MONTEVERDI: Suzanne Monteverdi	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and guests, I just wanted to mention that we have a different room than we normally have here. But we want to thank Alan Swisher and the Queens borough president's office, of course, for making this room available to us. I know that the Chairs would like to thank you.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport Committee. MEMBER BROWN: Stephanie Brown representing Council Member Donovan Richards. MR. HOPPENHAUER: Larry Hoppenhauer, citizen member. MS. MONTEVERDI: Suzanne Monteverdi representing Councilman Paul Vallone.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and guests, I just wanted to mention that we have a different room than we normally have here. But we want to thank Alan Swisher and the Queens borough president's office, of course, for making this room available to us. I know that the Chairs would like to thank you. In any case, we have restrooms
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport Committee. MEMBER BROWN: Stephanie Brown representing Council Member Donovan Richards. MR. HOPPENHAUER: Larry Hoppenhauer, citizen member. MS. MONTEVERDI: Suzanne Monteverdi representing Councilman Paul Vallone. MS. HOSSAIN: Raida Hossain	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and guests, I just wanted to mention that we have a different room than we normally have here. But we want to thank Alan Swisher and the Queens borough president's office, of course, for making this room available to us. I know that the Chairs would like to thank you. In any case, we have restrooms outside to the left if you need to leave
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport Committee. MEMBER BROWN: Stephanie Brown representing Council Member Donovan Richards. MR. HOPPENHAUER: Larry Hoppenhauer, citizen member. MS. MONTEVERDI: Suzanne Monteverdi representing Councilman Paul Vallone. MS. HOSSAIN: Raida Hossain representing State Senator Tony Ann	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and guests, I just wanted to mention that we have a different room than we normally have here. But we want to thank Alan Swisher and the Queens borough president's office, of course, for making this room available to us. I know that the Chairs would like to thank you. In any case, we have restrooms outside to the left if you need to leave for the restroom. And I will at times to
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport Committee. MEMBER BROWN: Stephanie Brown representing Council Member Donovan Richards. MR. HOPPENHAUER: Larry Hoppenhauer, citizen member. MS. MONTEVERDI: Suzanne Monteverdi representing Councilman Paul Vallone. MS. HOSSAIN: Raida Hossain representing State Senator Tony Ann Stavisky.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and guests, I just wanted to mention that we have a different room than we normally have here. But we want to thank Alan Swisher and the Queens borough president's office, of course, for making this room available to us. I know that the Chairs would like to thank you. In any case, we have restrooms outside to the left if you need to leave for the restroom. And I will at times to facilitate or move the meeting along,
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. GILBERT: Stacy Gilbert, Port Authority Government Relations. MS. MITCHELL: Kelly Mitchell, Port Authority. MR. HUGHES: Aidan Hughes, representing State Senator Todd Kaminsky. MR. CHALA: Ricki Chala (phonetic) (inaudible). MS. BOYE-CHARLES: Gloria Boye-Charles representing Borough President Katz for the JFK Airport Committee. MEMBER BROWN: Stephanie Brown representing Council Member Donovan Richards. MR. HOPPENHAUER: Larry Hoppenhauer, citizen member. MS. MONTEVERDI: Suzanne Monteverdi representing Councilman Paul Vallone. MS. HOSSAIN: Raida Hossain representing State Senator Tony Ann	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. SCHREIBER: Bill, before you go, was there somebody from the Town of Hempstead? MR. WEISS: Andrew Weiss. MR. SCHREIBER: Andrew, you should be sitting at the table. MS. HERNDON: Jane Herndon, Port Authority Aviation. MR. KRAMER: Dennis Kramer, borough president. MR. HUISMAN: While we're waiting for some other members to come in and guests, I just wanted to mention that we have a different room than we normally have here. But we want to thank Alan Swisher and the Queens borough president's office, of course, for making this room available to us. I know that the Chairs would like to thank you. In any case, we have restrooms outside to the left if you need to leave for the restroom. And I will at times to

	D A		D 44
	Page 9		Page 11
1	Proceedings	1	Proceedings
2	and diplomatic as we can. I would like	2	government agency was driven by
3	any Q and A when we do get to the Q and A	3	performance measurements that only
4	that it be done in a civil manner and I	4	captures how proficient the market is
5	thank you for that in advance.	5	moving taking people from point A to point
6	MR. SHAW: Paris Shaw.	6	B while making as much money for our
7	MS. BRYCE: Sharina Bryce.	7	economy as possible.
8	MR. MORSE: And Glenn Morse from	8	Now, we lost sight of what is
9	United Airlines.	9	important to our local communities the
10	MR. ANDERSON: Mike Anderson, the	10	agency, Port Authority, MTA. All our
11	Town of Hempstead.	11	local authorities have a duty to make sure
12	MR. SCHREIBER: So what we're going	12 13	we capture quality of life, that's not
13	to do, we're going to move around a little	14	being done at the highest level, but at
14	bit. We're going to move to	15	the lowest level. And that's really what
15	We're going to go right to agenda	16	my opinion is, the driving cause of why we
16 17	item number four. And as most of you know	17	are where we are right now. Having said
	the noise metric that's used in New York	17	that, there are small things we can
18 19	State to measure airplane noise is DNL day	19	incrementally change to change the
	and night levels. And in California, they	20	narrative to really take ownership of our
20 21	actually use a different method, it's	20	communities back and really prioritize our
22	CNEL. And Lynn Shyer (phonetic) actually	22	lives and our quality of lives in the
23	made a presentation about that at one of	23	communities. And this, for me, Bill
24	the LaGuardia meetings. And now taking up	24	Number 11277 would change how we capture
25	that cause is Assemblymember Ron Kim, so assemblyman, ready?	25	airplane noises. Like Warren has said, instead of using the DNL day/night average
25	assemblyman, ready?	20	instead of using the DNL day/hight average
	Page 10		Page 12
1	Proceedings	1	Proceedings
2	MR. KIM: Thank you, Bill. Thank	2	sound level, CNEL would penalize airplanes
3	you Warren, Barbara, the co-chairs, all	3	that are flown from 7:00 p.m. to
4	the representatives and officials that	4	10:00 p.m. Right now, under the current
5	have joined us and all the residents who	5	metrics there is no penalty for that time
6	have also taken the time to be here with	6	slot. There is a penalty of ten decibels
7	us tonight. Let me just begin by just	7	that are added to airplanes that are
8	thanking all of your efforts over the last	8	clearly flown from 10:00 p.m. to 7:00 a.m.
9	couple of years now coming together and	9	This new metrics would do the main change
10	addressing, you know, all of our	10	would be that we would add an extra
11	residents' concerns about the airplane	11	layer of penalty of airplanes that are
•		40	
12	noise. This is something that Maria, ever	12	flown between 7:00 p.m. to 10:00 p.m.,
12 13	noise. This is something that Maria, ever since I've been elected I've been getting	13	flown between 7:00 p.m. to 10:00 p.m., three more hours of five decibels of
			•
13	since I've been elected I've been getting	13 14 15	three more hours of five decibels of
13 14 15 16	since I've been elected I've been getting daily e-mails between you, Susan and	13 14 15 16	three more hours of five decibels of penalties in that time frame. This for me is critical. It may seem like a little, but when you add up
13 14 15 16 17	since I've been elected I ['] ve been getting daily e-mails between you, Susan and Maria, and a number of constituents	13 14 15 16 17	three more hours of five decibels of penalties in that time frame. This for me is critical. It may seem like a little, but when you add up those decibels, we would create a critical
13 14 15 16 17 18	since I've been elected I've been getting daily e-mails between you, Susan and Maria, and a number of constituents included in the audience today.	13 14 15 16 17 18	three more hours of five decibels of penalties in that time frame. This for me is critical. It may seem like a little, but when you add up those decibels, we would create a critical movement against the federal government
13 14 15 16 17 18 19	since I've been elected I've been getting daily e-mails between you, Susan and Maria, and a number of constituents included in the audience today. I grew up in Flushing. I never left Flushing. And I think everyone knows, you know, how it's gotten worse over the last	13 14 15 16 17 18 19	three more hours of five decibels of penalties in that time frame. This for me is critical. It may seem like a little, but when you add up those decibels, we would create a critical movement against the federal government that there is significant damage in terms
13 14 15 16 17 18 19 20	since I've been elected I've been getting daily e-mails between you, Susan and Maria, and a number of constituents included in the audience today. I grew up in Flushing. I never left Flushing. And I think everyone knows, you know, how it's gotten worse over the last few years. And I think	13 14 15 16 17 18 19 20	three more hours of five decibels of penalties in that time frame. This for me is critical. It may seem like a little, but when you add up those decibels, we would create a critical movement against the federal government that there is significant damage in terms of quality of life, airplane noise. And
13 14 15 16 17 18 19 20 21	since I've been elected I've been getting daily e-mails between you, Susan and Maria, and a number of constituents included in the audience today. I grew up in Flushing. I never left Flushing. And I think everyone knows, you know, how it's gotten worse over the last	13 14 15 16 17 18 19 20 21	three more hours of five decibels of penalties in that time frame. This for me is critical. It may seem like a little, but when you add up those decibels, we would create a critical movement against the federal government that there is significant damage in terms of quality of life, airplane noise. And hopefully, we will hopefully, we can
13 14 15 16 17 18 19 20 21 22	since I've been elected I've been getting daily e-mails between you, Susan and Maria, and a number of constituents included in the audience today. I grew up in Flushing. I never left Flushing. And I think everyone knows, you know, how it's gotten worse over the last few years. And I think	13 14 15 16 17 18 19 20 21	three more hours of five decibels of penalties in that time frame. This for me is critical. It may seem like a little, but when you add up those decibels, we would create a critical movement against the federal government that there is significant damage in terms of quality of life, airplane noise. And hopefully, we will hopefully, we can get support from the members around the
13 14 15 16 17 18 19 20 21 22 23	since I've been elected I've been getting daily e-mails between you, Susan and Maria, and a number of constituents included in the audience today. I grew up in Flushing. I never left Flushing. And I think everyone knows, you know, how it's gotten worse over the last few years. And I think A lot of that has to do with, you know, stuff that's out of our control within the last four years. There's been	13 14 15 16 17 18 19 20 21 22 23	three more hours of five decibels of penalties in that time frame. This for me is critical. It may seem like a little, but when you add up those decibels, we would create a critical movement against the federal government that there is significant damage in terms of quality of life, airplane noise. And hopefully, we will hopefully, we can get support from the members around the table. One immediate thing you can do is
13 14 15 16 17 18 19 20 21 22 23 24	since I've been elected I've been getting daily e-mails between you, Susan and Maria, and a number of constituents included in the audience today. I grew up in Flushing. I never left Flushing. And I think everyone knows, you know, how it's gotten worse over the last few years. And I think A lot of that has to do with, you know, stuff that's out of our control within the last four years. There's been a rapid change towards rewarding efficient	13 14 15 16 17 18 19 20 21 22 23 24	three more hours of five decibels of penalties in that time frame. This for me is critical. It may seem like a little, but when you add up those decibels, we would create a critical movement against the federal government that there is significant damage in terms of quality of life, airplane noise. And hopefully, we will hopefully, we can get support from the members around the table. One immediate thing you can do is ask our my colleagues, Ed Braunstein
13 14 15 16 17 18 19 20 21 22 23	since I've been elected I've been getting daily e-mails between you, Susan and Maria, and a number of constituents included in the audience today. I grew up in Flushing. I never left Flushing. And I think everyone knows, you know, how it's gotten worse over the last few years. And I think A lot of that has to do with, you know, stuff that's out of our control within the last four years. There's been	13 14 15 16 17 18 19 20 21 22 23	three more hours of five decibels of penalties in that time frame. This for me is critical. It may seem like a little, but when you add up those decibels, we would create a critical movement against the federal government that there is significant damage in terms of quality of life, airplane noise. And hopefully, we will hopefully, we can get support from the members around the table. One immediate thing you can do is

	Page 13		Page 15
1	Proceedings	1	Proceedings
2	completely on board. So if we can get our	2	I think it would be also helpful as well.
3	local electives, state senate members to	3	MR. GRAHAM: Dennis Graham. This
4	support this and also reach out to chair	4	new measure CNEL, does it separate day and
5	of the environmental committee, Steve	5	night noise?
6	Englebright from Long Island as well as	6	MR. SCHANER: It is the evening
7	Speaker Carl Heastie (phonetic) to support	7	noise. I mean, its main feature is the
8	this measure, that's one action we can	8	fact. Let me just make sure I understand
9	take in doing this. Thank you very much.	9	your question correctly.
10	MR. CURRY: I just want to	10	MR. GRAHAM: Well, the present
11	What's the expectation about the	11	levels of DNL are a combination of day and
12	bill passing?	12	night together and they come up with a
13	MR. KIM: This was introduced toward	13	measure. So this new level would it be
14	the end of the session. We did some	14	night and day together and then in
15	internal vetting with the members to	15	decibels or
16	analyze the noise of the environmental	16	MR. SCHANER: Right now, it is the
17	committee. And they actually understood,	17	average over a day, a typical day is the
18	they are receptive. So pursuant to	18	noise level from seven in the morning
19	section session 2019 because it's already	19	until 10 o'clock at night straight.
20	been done in California, there is already	20	Whatever the airplane noise is that's what
21	precedence. FAA had already accepted the	21	it is, that's what it is recorded at.
22	state metrics of California so we can make	22	That's how it's simulated from 10 o'clock
23	the same argument that the larger state is	23	at night to seven in the morning, you add
24	already doing this, we should follow suit.	24	ten DB for every airplane. But what's not
25	MS. CARROLL: If the CNEL bill is	25	penalized is quiet time when kids are
	Page 14		Page 16
1	_	1	•
1 2	Proceedings	1 2	Proceedings
	Proceedings passed, this is a question for the Port		Proceedings doing homework and people are resting or
2	Proceedings passed, this is a question for the Port Authority how this affects the Part 150	2	Proceedings doing homework and people are resting or whatever. And from seven in the evening
2 3	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150,	2 3	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour
2 3 4	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're	2 3 4	Proceedings doing homework and people are resting or whatever. And from seven in the evening
2 3 4 5	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150,	2 3 4 5	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the
2 3 4 5 6	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA.	2 3 4 5 6	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is
2 3 4 5 6 7	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL?	2 3 4 5 6 7	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the
2 3 4 5 6 7 8	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending	2 3 4 5 6 7 8	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night,
2 3 4 5 6 7 8	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we	2 3 4 5 6 7 8 9	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten.
2 3 4 5 6 7 8 9	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the	2 3 4 5 6 7 8 9	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine.
2 3 4 5 6 7 8 9 10	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted.	2 3 4 5 6 7 8 9 10	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely.
2 3 4 5 6 7 8 9 10 11	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted. MS. BECCE: Maria Becce for	2 3 4 5 6 7 8 9 10 11	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely. MR. SCHANER: For the same price you can have the rest. For the next three
2 3 4 5 6 7 8 9 10 11 12 13	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted. MS. BECCE: Maria Becce for Congresswoman Grace Meng. Assemblymember	2 3 4 5 6 7 8 9 10 11 12 13	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely. MR. SCHANER: For the same price you
2 3 4 5 6 7 8 9 10 11 12 13	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted. MS. BECCE: Maria Becce for Congresswoman Grace Meng. Assemblymember Kim, what action do you propose to get	2 3 4 5 6 7 8 9 10 11 12 13	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely. MR. SCHANER: For the same price you can have the rest. For the next three hours you get penalized and then over
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted. MS. BECCE: Maria Becce for Congresswoman Grace Meng. Assemblymember Kim, what action do you propose to get support from this; are you planning a	2 3 4 5 6 7 8 9 10 11 12 13 14	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely. MR. SCHANER: For the same price you can have the rest. For the next three hours you get penalized and then over the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted. MS. BECCE: Maria Becce for Congresswoman Grace Meng. Assemblymember Kim, what action do you propose to get support from this; are you planning a press conference? What would you expect	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely. MR. SCHANER: For the same price you can have the rest. For the next three hours you get penalized and then over the MR. GRAHAM: The reason why I bring
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted. MS. BECCE: Maria Becce for Congresswoman Grace Meng. Assemblymember Kim, what action do you propose to get support from this; are you planning a press conference? What would you expect the roundtable to do to help you with	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely. MR. SCHANER: For the same price you can have the rest. For the next three hours you get penalized and then over the MR. GRAHAM: The reason why I bring it up is because most of the healthcare
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted. MS. BECCE: Maria Becce for Congresswoman Grace Meng. Assemblymember Kim, what action do you propose to get support from this; are you planning a press conference? What would you expect the roundtable to do to help you with this?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely. MR. SCHANER: For the same price you can have the rest. For the next three hours you get penalized and then over the MR. GRAHAM: The reason why I bring it up is because most of the healthcare data is measured on nighttime noise. And
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted. MS. BECCE: Maria Becce for Congresswoman Grace Meng. Assemblymember Kim, what action do you propose to get support from this; are you planning a press conference? What would you expect the roundtable to do to help you with this? MR. KIM: I mean, any opportunities	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely. MR. SCHANER: For the same price you can have the rest. For the next three hours you get penalized and then over the MR. GRAHAM: The reason why I bring it up is because most of the healthcare data is measured on nighttime noise. And so if you don't separate them out and you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted. MS. BECCE: Maria Becce for Congresswoman Grace Meng. Assemblymember Kim, what action do you propose to get support from this; are you planning a press conference? What would you expect the roundtable to do to help you with this? MR. KIM: I mean, any opportunities to speak about this and to use this as a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely. MR. SCHANER: For the same price you can have the rest. For the next three hours you get penalized and then over the MR. GRAHAM: The reason why I bring it up is because most of the healthcare data is measured on nighttime noise. And so if you don't separate them out and you just get this big measurement and you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted. MS. BECCE: Maria Becce for Congresswoman Grace Meng. Assemblymember Kim, what action do you propose to get support from this; are you planning a press conference? What would you expect the roundtable to do to help you with this? MR. KIM: I mean, any opportunities to speak about this and to use this as a platform to talk about the airplane noise,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely. MR. SCHANER: For the same price you can have the rest. For the next three hours you get penalized and then over the MR. GRAHAM: The reason why I bring it up is because most of the healthcare data is measured on nighttime noise. And so if you don't separate them out and you just get this big measurement and you don't measure the nighttime noise that's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted. MS. BECCE: Maria Becce for Congresswoman Grace Meng. Assemblymember Kim, what action do you propose to get support from this; are you planning a press conference? What would you expect the roundtable to do to help you with this? MR. KIM: I mean, any opportunities to speak about this and to use this as a platform to talk about the airplane noise, I'm more than happy to come to the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely. MR. SCHANER: For the same price you can have the rest. For the next three hours you get penalized and then over the MR. GRAHAM: The reason why I bring it up is because most of the healthcare data is measured on nighttime noise. And so if you don't separate them out and you just get this big measurement and you don't measure the nighttime noise that's why I bring it up.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings passed, this is a question for the Port Authority how this affects the Part 150 and does this further delay the Part 150, this is if you're including if you're changing to CNEL? MR. BROOKS: So Andrew Brooks, FAA. The FAA can't comment on pending legislation. And to be honest, we wouldn't be able to answer that until the legislation were enacted. MS. BECCE: Maria Becce for Congresswoman Grace Meng. Assemblymember Kim, what action do you propose to get support from this; are you planning a press conference? What would you expect the roundtable to do to help you with this? MR. KIM: I mean, any opportunities to speak about this and to use this as a platform to talk about the airplane noise, I'm more than happy to come to the individual meetings and to different	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings doing homework and people are resting or whatever. And from seven in the evening to 10 o'clock at night, that three-hour period has made, in previous studies, a one-and-a-half DB difference in the overall day/night average, whether it is from seven in the morning to ten at night, straight airplane noise from seven to ten. MR. GRAHAM: I got it. That's fine. I understand completely. MR. SCHANER: For the same price you can have the rest. For the next three hours you get penalized and then over the MR. GRAHAM: The reason why I bring it up is because most of the healthcare data is measured on nighttime noise. And so if you don't separate them out and you just get this big measurement and you don't measure the nighttime noise that's why I bring it up. MR. HUISMAN: Any other questions on

	Page 17		Page 19
1	Proceedings	1	Proceedings
2	Queens Community Board 13. Does your	2	MR. SCHREIBER: Just one last
3	proposal take into consideration the	3	question Warren Schreiber. So this new
4	obviously simulating the platform but	4	metric, if it passes, this would only
5	you're dealing with two different scales,	5	apply to airplane noise, that's correct?
6	the scale is different in California it is	6	The reason I'm asking this, when we
7	a much bigger territory. I take that into	7	discussed
8	consideration the scaling and based on the	8	When we discussed this before the
9	federal response of California have you	9	city council, they were concerned that it
10	any anticipation what to expect as to the	10	might also have to apply to construction
11	response?	11	noise, what just airplane noise what
12	MR. KIM: I think it's my	12	are we
13	understanding that the federal government	13	MR. KIM: Right now I know there are
14	was receptive to working with California	14	some
15	to determine what best metric system they	15	Under the
16	can use. The current metric system was	16	The way that the bill it doesn't
17	created almost like thirty, almost 35	17	
18	years ago when the circumstances were very	18	We can further clarify that if
19	different and they didn't properly	19	that's a concern, we only want to be
20	capture, like you said, the operable scale	20	focused on airplane noise.
21	and the population that are severely	21	MR. SCHREIBER: Okay.
22	impacted from seven to ten p.m. Let's	22	MR. KIM: Differences to the bill
23	just put it this way we almost double	23	number, if there is any amendments, I
24	we almost triple the population in certain	24	assume this is our co-sponsor. If you
25	neighborhoods since 35 years ago. So more	25	have any tough questions you can ask
	Page 18		Page 20
1	•	1	
1 2	Proceedings	1 2	Page 20 Proceedings Braunstein.
	Proceedings lives and more community people lives are		Proceedings Braunstein.
2	Proceedings	2	Proceedings Braunstein. MR. SCHREIBER: We've just been
2 3	Proceedings lives and more community people lives are impacted. But the critical time period	2 3	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who
2 3 4	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you	2 3 4	Proceedings Braunstein. MR. SCHREIBER: We've just been
2 3 4 5	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add	2 3 4 5	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277.
2 3 4 5 6	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only	2 3 4 5 6	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add
2 3 4 5 6 7	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add	2 3 4 5 6 7	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything
2 3 4 5 6 7 8	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they	2 3 4 5 6 7 8	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add
2 3 4 5 6 7 8 9	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they	2 3 4 5 6 7 8 9	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill.
2 3 4 5 6 7 8 9	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to	2 3 4 5 6 7 8 9	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went
2 3 4 5 6 7 8 9 10	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it.	2 3 4 5 6 7 8 9 10	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you
2 3 4 5 6 7 8 9 10 11	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it. MR. HOPPENHAUER: Larry Hoppenhauer. I think my question is similar to one that was already asked and that is in	2 3 4 5 6 7 8 9 10 11	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you know, we're in the process of engaging the
2 3 4 5 6 7 8 9 10 11 12 13	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it. MR. HOPPENHAUER: Larry Hoppenhauer. I think my question is similar to one that	2 3 4 5 6 7 8 9 10 11 12	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you know, we're in the process of engaging the Environmental Conservation Committee and
2 3 4 5 6 7 8 9 10 11 12 13 14	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it. MR. HOPPENHAUER: Larry Hoppenhauer. I think my question is similar to one that was already asked and that is in	2 3 4 5 6 7 8 9 10 11 12 13 14	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you know, we're in the process of engaging the Environmental Conservation Committee and we're going to make this a priority next
2 3 4 5 6 7 8 9 10 11 12 13 14	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it. MR. HOPPENHAUER: Larry Hoppenhauer. I think my question is similar to one that was already asked and that is in California has the CNEL affected the noise	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you know, we're in the process of engaging the Environmental Conservation Committee and we're going to make this a priority next session to make sure that we have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it. MR. HOPPENHAUER: Larry Hoppenhauer. I think my question is similar to one that was already asked and that is in California has the CNEL affected the noise exposure maps? MR. KIM: Yes. MR. SCHANER: The answer is yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you know, we're in the process of engaging the Environmental Conservation Committee and we're going to make this a priority next session to make sure that we have something similar to what they have in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it. MR. HOPPENHAUER: Larry Hoppenhauer. I think my question is similar to one that was already asked and that is in California has the CNEL affected the noise exposure maps? MR. KIM: Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you know, we're in the process of engaging the Environmental Conservation Committee and we're going to make this a priority next session to make sure that we have something similar to what they have in California where they take more
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it. MR. HOPPENHAUER: Larry Hoppenhauer. I think my question is similar to one that was already asked and that is in California has the CNEL affected the noise exposure maps? MR. KIM: Yes. MR. SCHANER: The answer is yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you know, we're in the process of engaging the Environmental Conservation Committee and we're going to make this a priority next session to make sure that we have something similar to what they have in California where they take more consideration into account of airplane
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it. MR. HOPPENHAUER: Larry Hoppenhauer. I think my question is similar to one that was already asked and that is in California has the CNEL affected the noise exposure maps? MR. KIM: Yes. MR. SCHANER: The answer is yes. MR. HOPPENHAUER: The area that will	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you know, we're in the process of engaging the Environmental Conservation Committee and we're going to make this a priority next session to make sure that we have something similar to what they have in California where they take more consideration into account of airplane noise during hours later in the evening and the early morning. And you'll have my full support, I will be there with Ron and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it. MR. HOPPENHAUER: Larry Hoppenhauer. I think my question is similar to one that was already asked and that is in California has the CNEL affected the noise exposure maps? MR. KIM: Yes. MR. SCHANER: The answer is yes. MR. HOPPENHAUER: The area that will be included would get larger.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you know, we're in the process of engaging the Environmental Conservation Committee and we're going to make this a priority next session to make sure that we have something similar to what they have in California where they take more consideration into account of airplane noise during hours later in the evening and the early morning. And you'll have my
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it. MR. HOPPENHAUER: Larry Hoppenhauer. I think my question is similar to one that was already asked and that is in California has the CNEL affected the noise exposure maps? MR. KIM: Yes. MR. SCHANER: The answer is yes. MR. HOPPENHAUER: The area that will be included would get larger. MR. SCHANER: Well, that would be	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you know, we're in the process of engaging the Environmental Conservation Committee and we're going to make this a priority next session to make sure that we have something similar to what they have in California where they take more consideration into account of airplane noise during hours later in the evening and the early morning. And you'll have my full support, I will be there with Ron and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it. MR. HOPPENHAUER: Larry Hoppenhauer. I think my question is similar to one that was already asked and that is in California has the CNEL affected the noise exposure maps? MR. KIM: Yes. MR. SCHANER: The answer is yes. MR. HOPPENHAUER: The area that will be included would get larger. MR. SCHANER: Well, that would be the tendency, but where you are you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you know, we're in the process of engaging the Environmental Conservation Committee and we're going to make this a priority next session to make sure that we have something similar to what they have in California where they take more consideration into account of airplane noise during hours later in the evening and the early morning. And you'll have my full support, I will be there with Ron and we have other colleagues whose districts are impacted by airplane noise as well and we will bring them on board.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings lives and more community people lives are impacted. But the critical time period should be more. But not under this current metric system, I think also if you do, if you take the step, we can also add other improvements. This isn't the only metric system. We can also add what they did with a better metric system. If they get this done now we have precedence to actually work on it. MR. HOPPENHAUER: Larry Hoppenhauer. I think my question is similar to one that was already asked and that is in California has the CNEL affected the noise exposure maps? MR. KIM: Yes. MR. SCHANER: The answer is yes. MR. HOPPENHAUER: The area that will be included would get larger. MR. SCHANER: Well, that would be the tendency, but where you are you have to be where the airplanes are.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings Braunstein. MR. SCHREIBER: We've just been joined by Assemblyman Ed Braunstein, who is a co-sponsor of this bill, which is A11277. Assemblyman, you want to add anything This is the CNEL bill. MR. BRAUNSTEIN: I'm sure Ron went through the details of the bill. And, you know, we're in the process of engaging the Environmental Conservation Committee and we're going to make this a priority next session to make sure that we have something similar to what they have in California where they take more consideration into account of airplane noise during hours later in the evening and the early morning. And you'll have my full support, I will be there with Ron and we have other colleagues whose districts are impacted by airplane noise as well and

	Page 21		Page 23
1	Proceedings	1	
2	Assemblymember Kim, thank you for	2	Proceedings What we have been told that the Part
3	introducing the legislation. Assemblyman	3	150 study still has to use the INM model
4	Braunstein, thank you for your	4	
5		5	because that was the model that they started with. So we want to find out the
6	sponsorship. And Ed Ra thank you also.	6	
7	And now I'm going to turn this over to my	7	best for the presentation so we know what
8	co-chair, Barbara Brown.	8	the differences are and whether if the
	MEMBER BROWN: Thank you. Before we	9	
9	move forward, I do want to ask any members	10	If they had switched from one model to the other how would that have impacted
10	of the roundtable who came in after we	11	•
11	started to please make sure, one, that	12	or how would that impact the results of
12	you've signed in. And secondly, that you	13	the Part 150 study. And that will
13	sit in the circle so that if we do vote	14	There will be a Q and A for that.
14	for something we know who you are and have	15	And finally, we will be getting from the
15	your vote. If you are a member you should	16	FAA an update on the Northeast Corridor
16	be sitting at the table. Okay.	17	project. So Steven Jones is the person
17	Just going through the	18	who has coordinated all of this so Steven
18	Item two on the agenda says minutes.	19	is going to tell us who is speaking about
19	But the last roundtable meeting we did not	20	what and we'll move right into that.
20	have a quorum so, in essence, we don't	21	MR. JONES: Thank you, everybody.
21	have minutes. What I did send out to	22	Barbara has placed this request for the
22	every member was a transcript of the last	23	CLEEN and the AEDT versus INM. What we
23	meeting, 117 pages because although it	24	did was spoke to our headquarters and we
24	wasn't an official meeting, we had 117	25	have James Hileman, the chief scientist for the Federal Aviation Administration.
25	pages worth of discussion and information.	25	ioi the rederal Aviation Administration.
	Page 22		Page 24
1	Proceedings		
	i rocccungs	1	Proceedings
2	MR. SCHREIBER: Do we have printed	2	Proceedings So what we did was spoke to our
2 3			
	MR. SCHREIBER: Do we have printed	2	So what we did was spoke to our
3	MR. SCHREIBER: Do we have printed copies in the back here?	2 3	So what we did was spoke to our headquarters some people and we have James
3 4	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally	2 3 4	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist
3 4 5	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to	2 3 4 5	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and
3 4 5 6	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get	2 3 4 5 6	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious
3 4 5 6 7	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving	2 3 4 5 6 7	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation.
3 4 5 6 7 8	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along.	2 3 4 5 6 7 8	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you.
3 4 5 6 7 8	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold	2 3 4 5 6 7 8	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank
3 4 5 6 7 8 9	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we	2 3 4 5 6 7 8 9	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just
3 4 5 6 7 8 9 10	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items. So at this time, we're going to hear	2 3 4 5 6 7 8 9 10 11 12	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA.
3 4 5 6 7 8 9 10 11	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items.	2 3 4 5 6 7 8 9 10 11 12 13	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just by a brief introduction, I'm one of about half dozen chief scientists at the FAA.
3 4 5 6 7 8 9 10 11 12 13 14	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items. So at this time, we're going to hear several FAA presentations. The first one is on CLEEN, which is one of the	2 3 4 5 6 7 8 9 10 11 12 13 14	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just by a brief introduction, I'm one of about half dozen chief scientists at the FAA. We have various responsibilities for a
3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items. So at this time, we're going to hear several FAA presentations. The first one is on CLEEN, which is one of the initiatives of the FAA and they will be	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just by a brief introduction, I'm one of about half dozen chief scientists at the FAA. We have various responsibilities for a number of things. I'm the chief scientist
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items. So at this time, we're going to hear several FAA presentations. The first one is on CLEEN, which is one of the initiatives of the FAA and they will be giving you detailed information about that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just by a brief introduction, I'm one of about half dozen chief scientists at the FAA. We have various responsibilities for a number of things. I'm the chief scientist for environment and energy. I have
3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items. So at this time, we're going to hear several FAA presentations. The first one is on CLEEN, which is one of the initiatives of the FAA and they will be giving you detailed information about that with a Q and A answer.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just by a brief introduction, I'm one of about half dozen chief scientists at the FAA. We have various responsibilities for a number of things. I'm the chief scientist for environment and energy. I have responsibility for the environment and
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items. So at this time, we're going to hear several FAA presentations. The first one is on CLEEN, which is one of the initiatives of the FAA and they will be giving you detailed information about that with a Q and A answer. The second item AEDT versus INM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just by a brief introduction, I'm one of about half dozen chief scientists at the FAA. We have various responsibilities for a number of things. I'm the chief scientist for environment and energy. I have responsibility for the environment program of
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items. So at this time, we're going to hear several FAA presentations. The first one is on CLEEN, which is one of the initiatives of the FAA and they will be giving you detailed information about that with a Q and A answer. The second item AEDT versus INM model, that's a that's an important	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just by a brief introduction, I'm one of about half dozen chief scientists at the FAA. We have various responsibilities for a number of things. I'm the chief scientist for environment and energy. I have responsibility for the environment and energy research and development program of the FAA. And that covers a number of
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items. So at this time, we're going to hear several FAA presentations. The first one is on CLEEN, which is one of the initiatives of the FAA and they will be giving you detailed information about that with a Q and A answer. The second item AEDT versus INM model, that's a that's an important item because both airports are in the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just by a brief introduction, I'm one of about half dozen chief scientists at the FAA. We have various responsibilities for a number of things. I'm the chief scientist for environment and energy. I have responsibility for the environment program of
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items. So at this time, we're going to hear several FAA presentations. The first one is on CLEEN, which is one of the initiatives of the FAA and they will be giving you detailed information about that with a Q and A answer. The second item AEDT versus INM model, that's a that's an important	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just by a brief introduction, I'm one of about half dozen chief scientists at the FAA. We have various responsibilities for a number of things. I'm the chief scientist for environment and energy. I have responsibility for the environment and energy research and development program of the FAA. And that covers a number of
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items. So at this time, we're going to hear several FAA presentations. The first one is on CLEEN, which is one of the initiatives of the FAA and they will be giving you detailed information about that with a Q and A answer. The second item AEDT versus INM model, that's a that's an important item because both airports are in the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just by a brief introduction, I'm one of about half dozen chief scientists at the FAA. We have various responsibilities for a number of things. I'm the chief scientist for environment and energy. I have responsibility for the environment and energy research and development program of the FAA. And that covers a number of things including the CLEEN program that I'll talk about in this briefing as well as the AEDT model that I will talk about
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items. So at this time, we're going to hear several FAA presentations. The first one is on CLEEN, which is one of the initiatives of the FAA and they will be giving you detailed information about that with a Q and A answer. The second item AEDT versus INM model, that's a that's an important item because both airports are in the middle of a Part 150 study. And the Part 150 studies are using the INM model, however, AEDT is the newer model that was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just by a brief introduction, I'm one of about half dozen chief scientists at the FAA. We have various responsibilities for a number of things. I'm the chief scientist for environment and energy. I have responsibility for the environment and energy research and development program of the FAA. And that covers a number of things including the CLEEN program that I'll talk about in this briefing as well as the AEDT model that I will talk about in this briefing.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. SCHREIBER: Do we have printed copies in the back here? MEMBER BROWN: We're environmentally friendly so to save paper we sent it to you. So hopefully you will read it to get a sense of what went on last time. Moving right along. Item three, we're going to hold until the end because at this point, we don't have a quorum and so those are actionable items. So at this time, we're going to hear several FAA presentations. The first one is on CLEEN, which is one of the initiatives of the FAA and they will be giving you detailed information about that with a Q and A answer. The second item AEDT versus INM model, that's a that's an important item because both airports are in the middle of a Part 150 study. And the Part 150 studies are using the INM model,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	So what we did was spoke to our headquarters some people and we have James Hileman here, who is our chief scientist or technical advisor for environment and energy for the FAA. He has been gracious to come and provide this presentation. James, I will turn it over to you. MR. HILEMAN: Thanks, Steve. Thank you everyone for giving me a chance to talk about things going on with the FAA. I will stand here and float around. Just by a brief introduction, I'm one of about half dozen chief scientists at the FAA. We have various responsibilities for a number of things. I'm the chief scientist for environment and energy. I have responsibility for the environment and energy research and development program of the FAA. And that covers a number of things including the CLEEN program that I'll talk about in this briefing as well as the AEDT model that I will talk about

Page 25 Page 27 Proceedings In happy to walk-through the first part in CLEEN and stop, take questions and then I can walk-through the second part, it is one deck. It makes no difference, I can walk-through the whole thing. But more importantly, I will just get going. Because you guys are spending your evenings here as opposed to being with your families and I appreciate that. So just a little background, one slide, got to talk about metrics because it is important to the CLEEN program and AEDT. I'm going to talk about INM and AEDT. Thing poing to talk about INM and AEDT. And if people have clairfications along the way, I don't care I've done many, many briefings in my life. So community noise from aircraft. You guys obviously know quite a bit about two metrics or two types of metrics that we use the certify aircraft. All aircrafts that are produced Page 26 Proceedings Proceedings The proceedings that certification noise and the stages there are the certification noise made from today's are allowed to make. And there is a definite decrease in the amount of noise made from today's activation				
2 can — 3 I'm happy to walk-through the first 4 part in CLEEN and stop, take questions and then I can walk-through the second part, 6 it's one deck. It makes no difference, I can walk-through the whole thing. But it's one deck. It makes no difference, I can walk-through the whole thing. But more importantly, I will just going. 9 Because you guys are spending your evenings here as opposed to being with 11 your families and I appreciate that. 25 So just a little background, one silde, got to talk about metrics because it's important to the CLEEN program and the AEDT. Thr going to talk about INM and AEDT. Thr going to talk about INM and AEDT. Thr going to talk about INM and AEDT. Thr going to talk about lown along the way, I don't care I've done many, many briefings in my life. 9 So community noise from aircraft. 20 You guys obviously know quite a bit about community poise. But there is actually two metrics or two types of metrics that we use the certify aircraft. All aircrafts that are produced to make. Page 26 1 Proceedings 2 have to meet a certain maximum noise standard and it's been that way since the 1970's. And so we have a noise standard to — in order to meet the aircraft comes in and the two measurements made as the aircraft takes off. And all aircrafts has to meet the standard to — in order to meet the standard to — in order to meet the air worthiness requirements. It is the same as safety they veg to to meet a certain noise level. And all the poperation of a single aircraft and then the community exposure is set by all the operation of a single aircraft and then the community fev posoure is est by all the operation of a single aircraft and then the community fev posoure is est by all the operation of a single aircraft and then the community fev posoure is est by all the operation of a single aircraft and there in the community exposure for the day, accounting for DNL, accounts for 10 DB percent, the industry puts in more than 50 percent. And by doing that, we read the single potent with the single pote		Page 25		Page 27
I'm happy to walk-through the first part in CLEEN and stop, take questions and then I can walk-through the second part, it's one deck. It makes no difference, I can walk-through the whole thing. But more importantly, I will just get going. Because you guys are spending your evenings here as opposed to being with your families and I appreciate that. So just a little background, one site, got a little background is got a little background is got a little background is got a little got a little background is got a little got a little go	1	Proceedings	1	Proceedings
part in CLEEN and stop, take questions and then I can walk-through the second part, it's one deck. It makes no difference, I are an walk-through the whole thing. But rome importantly, I will just jet going. Because you guys are spending your evenings here as opposed to being with your families and I appreciate that. So just a little background, one side, got to talk about metrics because it is important to the CLEEN program and side, got to talk about metrics because it is irrepart to the CLEEN program and AEDT. I'm going to talk about INM and AEDT. I'm going to talk about INM and AEDT. And if people have clarifications along the way, I don't care I've done many, many briefings in my life. So community noise. But there is actually two metrics or two types of metrics that we in the FAA care about. So the first noise metric is that we use the certify aircraft. All aircrafts that are produced in the aircraft to meet the air worthiness requirements. It is the same as safely they veg ot to meet a certain noise level. And all the operation of a single aircraft and then the operation of a single aircraft and then the community reposure. So we have a certification requirement for the operation of a single aircraft and then the community reposure. So we have a certification requirement but the aircraft corriging the course of the day, accounting for DNL, accounts for 10 DB poerally, it's two every different metrics. 22 penalty, it's two every different metrics. 22 penalty, it's two every different metrics. 23 So commercial aircraft have actually accourment, put in less the some mount of noise made from today's aircraft them and what we're and lower fight make are allowed to make. And the manulation of the manulat	2	can	2	that certification noise and the stages
then I can walk-through the second part, it's one deck. It makes no difference, I can walk-through the whole thing. But 7 can walk-through the whole thing. But 7 more importantly, I will just get going. 8 Because you guys are spending your 9 evenings here as opposed to being with 10 evenings here as opposed to being with 10 your families and I appreciate that. 11 your families are allowed. 12 you guy so brously know quite a bit about 20 you guy so brously know quite a bit about 20 you guy so brously know quite a bit about 20 you guy so brously know quite a bit about 20 you guy so brously know quite a bit about 20 you guy so brously know quite a bit about 20 you guy so brously know quite a bit about 20 you guy so brously know quite a bit about 20 you guy so that you	3	I'm happy to walk-through the first	3	there are the certification requirements
odown, the amount of noise that aircrafts are allowed to make. And there is a definite decrease in the amount of noise make. And there is a definite decrease in the amount of noise make. And there is a definite decrease in the amount of noise make. And there is a definite decrease in the amount of noise make from today's aircraft versus those produced in the 11 your families and I appreciate that. So just a filte background, one 12 watch the movie All the President's Men. There is a wonderful scene in there where the conversation has to stop because there's an aircraft literally going over the top of the Watergate complex. They along the way, I don't care I've done 17 along the way, I don't care I've done 18 many, many briefings in my life. Bo community noise from aircraft. You guys obviously know quite a bit about 20 we in the FAA care about. So the first 23 we in the FAA care about. So the first 24 noise metric is that we use the certify 24 aircraft. All aircrafts that are produced Page 26 Page 26 Page 27 Page 28 Pag	4	part in CLEEN and stop, take questions and	4	from the FAA on the manufacturer. And you
odown, the amount of noise that aircrafts are allowed to make. And there is a definite decrease in the amount of noise make. And there is a definite decrease in the amount of noise make. And there is a definite decrease in the amount of noise make. And there is a definite decrease in the amount of noise make from today's aircraft versus those produced in the 11 your families and I appreciate that. So just a filte background, one 12 watch the movie All the President's Men. There is a wonderful scene in there where the conversation has to stop because there's an aircraft literally going over the top of the Watergate complex. They along the way, I don't care I've done 17 along the way, I don't care I've done 18 many, many briefings in my life. Bo community noise from aircraft. You guys obviously know quite a bit about 20 we in the FAA care about. So the first 23 we in the FAA care about. So the first 24 noise metric is that we use the certify 24 aircraft. All aircrafts that are produced Page 26 Page 26 Page 27 Page 28 Pag	5	then I can walk-through the second part,	5	can see over time we have rationed it
more importantly, I will just get going. Because you guys are spending your vernings here as opposed to being with your families and I appreciate that. So just a little background, one lit's important to the CLEEN program and lit's important to the CLEEN from aircraft. AEDT. I'm going to talk about INM and AEDT. And if people have clarifications along the way, I don't care I've done many, many briefings in my life. So community noise. But there is actually community noise. But there is actually two metrics or two types of metrics that we in the FAA care about. So the first olice metrics is that we use the certify aircraft. All aircrafts that are produced There's measurements that the aircraft that is based on landing/fake-off cycle. There's measurements that the aircraft a comes in and the two measurements made as the aircraft takes off. And all aircrafts has to meet the air worthiness requirements. It is the same as safety they've got to meet a certain noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a coretification requirement for the operation of a single aircraft and then the community prosposure is set by all the producted in the amount of noise made from today's aircraft versus those produced in the amount of noise made from today's aircraft versus those produced in the amount of noise made from today's aircraft versus those produced in the 1960's. If you want a reminder you can watch the movie All the President's Men. There is a wonderful scene in there where the top of the Watergate complex. They the top of the Watergate complex. They captured that in the movie. That's the experience in the 1970's because it was that loud. There is different operations today. The aircraft feet. What I need to note is that it lakes as while for new aircraft to entire feet. What I need to note is that it lakes as while for new aircraft some feet. What I need to note is that it lakes as while for new aircraft sare feet. What I need to note is that it lakes as while for	6		6	down, the amount of noise that aircrafts
Because you guys are spending your evenings here as opposed to being with your families and I appreciate that. So just a little background, one slide, got to talk about metrics because it's important to the CLEEN program and the conversation has to stop because the theory of the Watergate complex. They captured that in the movie. Threis a wonderful scene in there where the conversation has to stop because the conversation has to stop because the two profession in the conversation has to stop because the two stop because the theory stop and interest the flee on the stop of the Watergate complex. They captured that in the movie. Threis a wonderful scene in there where the conversation has to stop because the the ordered the conversation has to stop because the the order the same and to the conversation has to stop because the theory of the Watergate complex. They captured that in the movie. Threis a wonderful scene in there where the conversation has to stop because there is a wonderful scene in the roof of the Watergate complex. They captured that in the movie. Threis a wonderful scene in there where the conversation has to stop because there is a wonderful scene in the roof of the Watergate complex. There is a wonderful scene in the roof of the Watergate complex. They captured that in the movie. Threis a wonderful scene in there where the conversation has to stop because it was that loud. There is different operations today. The aircraft residually and in the work shall be a part to she in the conversation has to stop because it was that loud. There is different o	7	can walk-through the whole thing. But	7	are allowed to make.
evenings here as opposed to being with your families and I appreciate that. So just a filtle background, one slide, got to talk about metrics because it it's important to the CLEEM program and file AEDT. I'm going to talk about IMM and AEDT. And if people have clarifications along the way, I don't care I've done many, many briefings in my life. So community noise. But there is actually to community noise. But there is actually to wo metrics or two types of metrics that we in the FAA care about. So the first noise metric is that we use the certify aircraft. All aircrafts that are produced Page 26 Page 26 Page 26 Page 28	8	more importantly, I will just get going.	8	And there is a definite decrease in
your families and I appreciate that. So just a little background, one slide, got to talk about metrics because it's important to the CLEEN program and 15 AEDT. I'm going to talk about INM and 16 AEDT. And if people have clarifications along the way, I don't care I've done many, many briefings in my life. So community noise rom aircraft. You guys obviously know quite a bit about community noise. But there is actually aircraft and it's been that we use the certify aircraft. All aircrafts that are produced 25 that it based on landing/take-off cycle. There is a wonderful scene in there where the conversation has to stop because the conversation has to stop because the theory of the Watergate complex. They captured that in the movie. That's the experience in the 1970's because it was that loud. There is different operations today. The aircraft noise has gone down dramatically, that's a function of aircraft chonlogy and their fleet. What I need to note is that it takes a while for new aircraft to enter the fleet and penetrate the fleet. And to see the standard of the watergate complex. They captured that in the movie. That's the experience in the 1970's because it was that loud. There is different operations today. The aircraft noise has gone down dramatically, that's a function of aircraft theonlogy and their fleet. What I need to note is that it takes a while for new aircraft to enter the fleet and penetrate the fleet. And to be a great extent the newest aircraft coming off the assembly line are those in the lover right hand, arcrafts such as the aircraft takes off. And all aircrafts and the two measurements made as the aircraft takes off. And all aircrafts has to meet the standard to — in order to meet the air worthiness requirements. It is the same as safety they've got to meet a certain noise level. And all the community exposure is set by all the operation of a single aircraft and then the community exposure is set by all the operation of a single aircraft and have a cutting the course of the day, and noi	9	Because you guys are spending your	9	the amount of noise made from today's
So just a little background, one slide, got to talk about metrics because it is important to the CLEEN program and AEDT. I'm going to talk about IMM and AEDT. And if people have clarifications along the way, I don't care I've done many, many briefings in my life. So community noise. But there is actually two metrics or two types of metrics that we in the FAA care about. So the first we in the FAA care about. So the first aircraft. All aircrafts that are produced Page 26 Page 26 Page 26 Page 28 Page 28 Page 28 Page 28 Proceedings at proceedings at that is based on landing/take-off cycle. There's measurements that the aircraft to meet the air worthiness requirements. It is the same sarefly they've got to meet a certain noise level. And all the meet the air worthiness requirements. It is the same sa safety they've got to meet a certain noise level. And all the meet the air carft contribute to the noise you guys know that. Now the other set of metrics is in terms of community exposure is set by all the operations during the course of the day. 20 and what we're become much, much wider since the 24 And so we work with them and what we're and so we have a counting for DNL, accounts for 10 DB accommend, much, much wider since the 24 And so we work with them and what we're and so we have a counting the course of the day. 20 And so we work with them and what we're and so we work with the mand what we're and so we work with the mand what we're and so we work with the mand what we're and so we have with the mand what we're and so we work with the mand what we're and so we have a certification requirement for the community exposure is set by all the poperation of a single aircraft and then for the community exposure is set by all the poperation of a single aircraft and then for the community exposure is set by all the poperation of a single aircraft and then for the community exposure is set by all the poperation of a single aircraft and then for the community exposure is set by all the poperation of a single airc	10	evenings here as opposed to being with	1	aircraft versus those produced in the
slide, got to talk about metrics because it's important to the CLEEN program and AEDT. I'm going to talk about INM and AEDT. And if people have clarifications along the way, I don't care I've done many, many briefings in my life. By along the way, I don't care I've done many, many briefings in my life. So community noise from aircraft. You guys obviously know quite a bit about community noise. But there is actually two metrics or two types of metrics that community noise metric is that we use the certify aircraft. All aircrafts that are produced the fleet and penetrate the fleet. And to the residue of the meet a certain maximum noise standard and it's been that way since the 1970's. And so we have a noise standard that is based on landing/take-off cycle. There's measurements that the aircraft comes in and the two measurements made as the aircraft takes off. And all the accuments is the same as safety they've got to meet a certain noise level. And all the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day. The aircraft the chicology and their fleet. What I need to note is that it takes a while for new aircraft to enter the fleet and penetrate the fleet. And to the fleet and penetrate the fleet. And		your families and I appreciate that.	1	
it's important to the CLEEN program and AEDT. I'm going to talk about INM and AEDT. And if people have clarifications along the way, I don't care I've done many, many briefings in my life. 8 many, many briefings in my life. 9 So community noise from aircraft. 20 You guys obviously know quite a bit about community noise. But there is actually two metrics or two types of metrics that 23 we in the FAA care about. So the first 23 moise metric is that we use the certify 24 aircraft. All aircrafts that are produced Page 26 1 Proceedings 2 have to meet a certain maximum noise 3 standard and it's been that way since the 4 1970's. And so we have a noise standard 5 that is based on landing/take-off cycle. 5 There's measurements that the aircraft takes off. And all aircraft 5 has to meet the standard to in order to meet the air worthiness requirements. It is the same as safely they've got to meet 13 sources of the aircraft contibute to the noise you guys know that. Now the other set of metrics is in terms of community exposure is set by all the community exposure is set by all the operations for DNL, accounts for 10 DB 20 sources of the day. So commercial aircraft and them the community that we're become much, much, much wider since the 24 And so we work with the more. They captured that the produced in the conversation has to stop because there san aircraft the top of the produced that in the porvie. That the prof is the top of the top of the time top of the severence in the 1970's because it was that loud. There is different mere in the prof is proving that in the prof is proving the prof is		So just a little background, one		watch the movie All the President's Men.
AEDT. I'm going to talk about INM and AEDT. And if people have clarifications along the way, I don't care I've done along the way, I don't care I've done many, many briefings in my life. So community noise from aircraft. You guys obviously know quite a bit about community noise. But there is actually two metrics or two types of metrics that we in the FAA care about. So the first noise metric is that we use the certify aircraft. All aircrafts that are produced Page 26 Page 26 Page 28 Page 28 Page 28 Proceedings a great extent the newest aircraft coming off the assembly line are those in the lower right hand, aircrafts such as the lower right hand, aircrafts such as the lower right hand, aircrafts are dramatically quieter and that's because of a the aircraft takes off. And all aircrafts has to meet the standard to — in order to meet the air worthiness requirements. It is the same as safety they've got to meet a certain noise level. And all the leterns of community exposure is set by all the operations during the course of the day, operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, operation of a single aircraft and the succounts for 10 DB penalty, it's two very different metrics. And so we work with them and what we're and so work with them and what we're	13	slide, got to talk about metrics because	1	There is a wonderful scene in there where
AEDT. And if people have clarifications along the way, I don't care I've done many, many briefings in my life. By many, many briefings in my life. So community noise from aircraft. You guys obviously know quite a bit about community noise. But there is actually two metrics or two types of metrics that we in the FAA care about. So the first aircraft. All aircrafts that are produced Page 26 Page 26 Page 26 Page 28 Proceedings Ae that is based on landing/take-off cycle. There's measurements that the aircraft comes in and the two measurements made as the aircraft takes off. And all aircrafts has to meet the standard to — in order to meet the air worthiness requirements. It is the same as safety they've got to meet a certain noise level. And all the terms of community exposure. So we have a certification requirement for the operations to a single aircraft and then is poperation of a single aircraft and the single aircraft and the some accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. AEDT. And of prove way has a community exposure of the day, accounting for DNL, accounts for 10 DB percent. And so we way a vaccounting for DNL, accounts for 10 DB penalty, it's two very different metrics. AEDT. And on't captured that in the movie. That's the experience in the 1970's because it was that in the movie. That's the experience in the 1970's because it was that loud. There is different metrics and idifferent metric suitifferent metrics. And the experience in the 1970's because it was that loud. There is different metrics. And the experience in the 1970's because it was that loud. There is different metrics and idifferent metric. Page 28 Page 28 Page 28 Page 28 Page 28 Proceedings a great extent the newest aircraft coming off the assembly line are those in the lever right and, aircraft such that's proceedings and great extent the newest aircraf		it's important to the CLEEN program and	1	the conversation has to stop because
along the way, I don't care I've done many, many briefings in my life. So community noise from aircraft. You guys obviously know quite a bit about community noise. But there is actually two metrics or two types of metrics that we in the FAA care about. So the first we in the FAA care about. So the first noise metric is that we use the certify aircraft. All aircrafts that are produced Page 26 Page 26 Proceedings have to meet a certain maximum noise standard and it's been that way since the 1970's beat way since the 1970's has to meet the standard to — in order to more the air worthiness requirements. It is the same as safety they've got to meet the standard community exposure. So we have a certification requirement for the operations today. The aircraft habout. There is different operations today. The aircraft technology and their fleet. What I need to note is that it takes a while for new aircraft technology and their fleet. What I need to note is that it takes a while for new aircraft to enter the fleet and penetrate the fleet. And to the fleet and p			1	
many, many briefings in my life. So community noise from aircraft. You guys obviously know quite a bit about community noise. But there is actually two metrics or two types of metrics that we in the FAA care about. So the first aircraft. All aircrafts that are produced Page 26 Page 26 Page 28 Page 28 Page 28 Proceedings a grain additional from the fleet and penetrate the fleet. And to the fleet and penetrate the fleet and penetrate the fleet. And to the fleet and penetrate the fleet and penetrate the fleet. And to the fleet and penetrate the fleet and penetrate the fleet. And to the fleet and penetrate the fleet and penetrate the fleet. And to the fleet and penetrate the fleet and penetrate the fleet. And to the fleet and penetrate the fleet and penetrate the fleet and penetrate the fleet and penetrate the fleet. And to the fleet and penetrate the fleet and penetrate the fleet and penetrate the fleet. And to the fleet and penetrate the fleet and penetrate the fleet and penetrate the fleet and penetrate the fleet. And to the fleet and penetrate the fleet and penetrate the fleet and penetrate the fleet. What is a function of a fleet what is a great a great extent the newest aircraft coming off the assembly line are those in				
So community noise from aircraft. You guys obviously know quite a bit about community noise. But there is actually two metrics or two types of metrics that we in the FAA care about. So the first noise metric is that we use the certify aircraft. All aircrafts that are produced Page 26 Page 26 Page 28 Proceedings And so we have a noise standard of that is based on landing/take-off cycle. There's measurements that the aircraft comes in and the two measurements made as the aircraft takes off. And all aircrafts has to meet the standard to — in order to meet the aircraft takes off the aircraft technology and their fleet. What I need to note is that it takes a while for new aircraft to enter the fleet and penetrate the fleet. And to enter fleet takes of And so we have a roise standard of the engine options. Those aircrafts are dramatically quieter and that's because of all the technology that's gone in		along the way, I don't care I've done	1	
You guys obviously know quite a bit about community noise. But there is actually two metrics or two types of metrics that we in the FAA care about. So the first noise metric is that we use the certify aircraft. All aircrafts that are produced Page 26 Page 26 Page 28 Proceedings have to meet a certain maximum noise standard and it's been that way since the 1970's. And so we have a noise standard that is based on landingfalke-off cycle. There's measurements that the aircraft takes off. And all aircrafts as the aircraft takes off. And all aircrafts as the aircraft takes off. And all aircrafts as the aircraft to meet the same as safety they've got to meet a certain noise level. And all the 1s work the other set of metrics is in terms of community exposure is set by all the operations drived mere the send that is the community exposure is set by all the operation of a single aircraft have actually become much, much, much wider since the		many, many briefings in my life.	1	That's the experience in the 1970's
21 community noise. But there is actually 22 two metrics or two types of metrics that 23 we in the FAA care about. So the first 24 noise metric is that we use the certify 25 aircraft. All aircrafts that are produced Page 26 Page 28 Pa				
two metrics or two types of metrics that we in the FAA care about. So the first noise metric is that we use the certify aircraft. All aircrafts that are produced Page 26 Page 26 Page 28 Proceedings have to meet a certain maximum noise standard and it's been that way since the fleet and penetrate the fleet. And to proceedings have to meet a certain maximum noise standard and it's been that way since the fleet and penetrate the fleet. And to Page 28 Page 28 Page 28 Page 28 Page 28 Page 28 Proceedings a great extent the newest aircraft coming off the assembly line are those in the lower right hand, aircrafts such as the lower right hand, aircrafts are the aircraft caming we free opinos. Those aircraft coming off the assembly line are those in the lower right hand, aircrafts are the aircraft take soff. So what wa and the EAA are doing we're going to continue that trend. We have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnersh				
we in the FAA care about. So the first noise metric is that we use the certify aircraft. All aircrafts that are produced Page 26 Page 28 Page 26 Page 28 Page 26 Page 26			1	noise has gone down dramatically, that's a
Page 26 Page 26 Page 26 Page 28 Page 26 Page 28 Page 26 Pag				
Page 26 Page 28 Proceedings have to meet a certain maximum noise standard and it's been that way since the 1970's. And so we have a noise standard that is based on landing/take-off cycle. There's measurements that the aircraft of the aircraft takes off. And all aircrafts the side safety begins to meet the standard to — in order to meet the air worthiness requirements. It is the same as safety they've got to meet a certain noise level. And all the sources of the aircraft contribute to the noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, a accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. Page 28 Proceedings a great extent the newest aircraft coming off the assembly line are those in the lower right hand, aircrafts such as the Being 737, the Max 787 and the A320 and other engine options. Those aircrafts are dramatically quieter and that's because of all the technology that's gone into their development. So what we and the FAA are doing we're going to continue that trend. We have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the feedral government, put in less than 50 percent. And by doing that, we know that industry has a vested interest in seeing these products get into the know that industry has a vested interest in seeing these products get into the feet, they have skin in the game too. And so we work with them and what we're		we in the FAA care about. So the first		
Page 26 Page 28 Proceedings have to meet a certain maximum noise standard and it's been that way since the 1970's. And so we have a noise standard that is based on landing/take-off cycle. There's measurements that the aircraft comes in and the two measurements made as the aircraft takes off. And all aircrafts has to meet the standard to in order to meet the air worthiness requirements. It is the same as safety they've got to meet a certain noise level. And all the sources of the aircraft contribute to the noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. Page 28 Proceedings a great extent the newest aircraft coming off the assembly line are those in the lower right hand, aircrafts such as the lower right hand, aircraft such as the lower right hand, aircraft such as the lower right hand, aircrafts such as the lower right hand, aircrafts such as the lower right hand, aircraft such as the lower right hand, aircraft such as the lower right hand, aircrafts such as the lower right hand, aircrafts such as the lower right hand, aircrafts as the lower right hand, aircrafts agentalise. All lower right hand the newest aircraft and the allower right hand. Allower right hand to have lower right hand the Na20 and other engine options. Those aircraft acted other regine options. So what we and the FAA are doing we're going to continuous lower emissions, energy and noise progra				takes a while for new aircraft to enter
1 Proceedings 2 have to meet a certain maximum noise 3 standard and it's been that way since the 4 1970's. And so we have a noise standard 5 that is based on landing/take-off cycle. 6 There's measurements that the aircraft 7 comes in and the two measurements made as 8 the aircraft takes off. And all aircrafts 9 has to meet the standard to in order to 10 meet the air worthiness requirements. It 11 is the same as safety they've got to meet 12 a certain noise level. And all the 13 sources of the aircraft contribute to the 14 noise you guys know that. 15 Now the other set of metrics is in 16 terms of community exposure. So we have a 17 certification requirement for the 18 operation of a single aircraft and then 19 the community exposure is set by all the 20 operations during the course of the day, 21 accounting for DNL, accounts for 10 DB 22 penalty, it's two very different metrics. 23 So commercial aircraft that way since the 24 development. 3 a great extent the newest aircraft coming off the assembly line are those in the 10 off the assembly line are those in the 10 ower right hand, aircrafts such as the 10 lower right hand, aircraft such as the 10 lower right hand, aircraft such as the 10 lower right hand, aircraft and the Al20 and 10 lower right hand, aircraft and the Al20 and 10 lower right hand, aircrafts ach 10 lower right hand, aircrafts such as the 10 lower right hand, a	25	aircraft. All aircrafts that are produced	25	the fleet and penetrate the fleet. And to
1 Proceedings 2 have to meet a certain maximum noise 3 standard and it's been that way since the 4 1970's. And so we have a noise standard 5 that is based on landing/take-off cycle. 6 There's measurements that the aircraft 7 comes in and the two measurements made as 8 the aircraft takes off. And all aircrafts 9 has to meet the standard to in order to 10 meet the air worthiness requirements. It 11 is the same as safety they've got to meet 12 a certain noise level. And all the 13 sources of the aircraft contribute to the 14 noise you guys know that. 15 Now the other set of metrics is in 16 terms of community exposure. So we have a 17 certification requirement for the 18 operation of a single aircraft and then 19 the community exposure is set by all the 20 operations during the course of the day, 21 accounting for DNL, accounts for 10 DB 22 penalty, it's two very different metrics. 23 So commercial aircraft that way since the 24 development. 3 a great extent the newest aircraft coming off the assembly line are those in the 10 off the assembly line are those in the 10 lower right hand, aircrafts such as the 10 lower right hand, aircrafts such as the 10 lower right hand, aircrafts such as the 10 other engine options. Those aircrafts are 10 dother engine options. Those aircrafts are 11 dramatically quieter and that's because of 12 all the technology that's gone into their 13 development. So what we and the FAA are doing 11 we're going to continue that trend. We 12 have a program called the CLEEN program 13 it's continuous lower emissions, energy 14 and noise program. This is a 15 public/private partnership a true 16 partnership with industry, where industry 17 certification requirement for the 18 We, the federal government, put in less 18 that the aircraft and then 19 than 50 percent. And by doing that, we 19 than 50 percent. And by doing that, we 19 than 50 percent. And by doing that, we 19 than 50 percent. And by doing that, we 20 accounting for DNL, accounts for 10 DB 21 know that industry has a vested interes		Page 26		Page 28
have to meet a certain maximum noise standard and it's been that way since the 1970's. And so we have a noise standard that is based on landing/take-off cycle. There's measurements that the aircraft comes in and the two measurements made as the aircraft takes off. And all aircrafts has to meet the standard to in order to meet the air worthiness requirements. It is the same as safety they've got to meet a certain noise level. And all the sources of the aircraft contribute to the noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a certification requirement for the operation of a single aircraft and then the community exposure is set by all the companion of DNL, accounts for 10 DB accounting for DNL, accounts for 10 DB commercial aircraft have actually become much, much, much wider since the arguard extent the newest aircraft coming off the assembly line are those in the lower right hand, aircrafts such as the lower right hand, aircrafts and the vere going to continue that trend. We we're going to continue that trend. We have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partn		•		
standard and it's been that way since the 1970's. And so we have a noise standard that is based on landing/take-off cycle. 5 Hard is based on landing/take-off cycle. 6 There's measurements that the aircraft comes in and the two measurements made as 8 the aircraft takes off. And all aircrafts 9 has to meet the standard to in order to 10 meet the air worthiness requirements. It 11 is the same as safety they've got to meet 12 a certain noise level. And all the 13 sources of the aircraft contribute to the 14 noise you guys know that. 15 Now the other set of metrics is in 16 terms of community exposure. So we have a 17 certification requirement for the 18 operations of a single aircraft and then 19 certification requirement for the 20 operations during the course of the day, 21 accounting for DNL, accounts for 10 DB 22 penalty, it's two very different metrics. 23 So commercial aircraft have actually 24 become much, much wider since the 25 Indicate the sasembly line are those in the 16 lower right hand, aircrafts such as the 16 lower right hand, aircrafts and the A320 and 16 the A320 and 17 other engine options. Those aircrafts are 16 dramatically quieter and that's because of 18 all the technology that's gone into their 19 development. 10 So what we and the FAA are doing 11 we're going to continue that trend. We 12 have a program called the CLEEN program 13 it's continuous lower emissions, energy 14 and noise program. This is a 15 public/private partnership a true 16 partnership with industry, where industry 17 has to put in over 50 percent of the cost. 18 Ve, the federal government, put in less 19 than 50 percent, the industry puts in more 20 operations during the course of the day, 21 accounting for DNL, accounts for 10 DB 22 penalty, it's two very different metrics. 23 So commercial aircraft have actually 24 become much, much wider since the 25 And so we work with them and what we're		<u> </u>		
1970's. And so we have a noise standard that is based on landing/take-off cycle. 5 that is based on landing/take-off cycle. 6 There's measurements that the aircraft comes in and the two measurements made as the aircraft takes off. And all aircrafts that the aircraft to the in order to the air worthiness requirements. It that is the same as safety they've got to meet the air worthiness requirements. It that is the same as safety they've got to meet the air craft contribute to the and the collection of the aircraft contribute to the the aircraft contribute to the the air craft contribute to the the aircraft contribute to the the aircraft contribute to the the aircraft contribute to the the terms of community exposure. So we have a the community exposure is set by all the the conductions during the course of the day, accounting for DNL, accounts for 10 DB the community exposure is exposured the conductions during the course of the day, accounting the course of the day, accounti				
that is based on landing/take-off cycle. There's measurements that the aircraft comes in and the two measurements made as the aircraft takes off. And all aircrafts has to meet the standard to in order to meet the air worthiness requirements. It is the same as safety they've got to meet a certain noise level. And all the sources of the aircraft contribute to the noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB Seing 737, the Max 787 and the A320 and other engine options. Those aircrafts are dramatically quieter and that's because of all the technology that's gone into their development. So what we and the FAA are doing we're going to continue that trend. We have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB commercial aircraft have actually become much, much, much wider since the				
There's measurements that the aircraft comes in and the two measurements made as the aircraft takes off. And all aircrafts the air worthiness requirements. It to meet the same as safety they've got to meet to a certain noise level. And all the sources of the aircraft contribute to the noise you guys know that. Now the other set of metrics is in to terms of community exposure. So we have a operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB to the community exposure is set of metrics. So commercial aircraft have actually to the standard to in order to the community exposure is set by all the technology that's gone into their development. So what we and the FAA are doing we're going to continue that trend. We have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we accounting for DNL, accounts for 10 DB to penalty, it's two very different metrics. So commercial aircraft have actually to the seeing these products get into the fleet, they have skin in the game too. And so we work with them and what we're			1	
comes in and the two measurements made as the aircraft takes off. And all aircrafts has to meet the standard to in order to meet the air worthiness requirements. It is the same as safety they've got to meet a certain noise level. And all the sources of the aircraft contribute to the noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a certification requirement for the operation of a single aircraft and then operations during the course of the day, accounting for DNL, accounts for 10 DB community, it's two very different metrics. read of all the technology that's gone into their development. So what we and the FAA are doing we're going to continue that trend. We have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we accounting for DNL, accounts for 10 DB community, it's two very different metrics. community exposure is set by all the so commercial aircraft have actually become much, much, much wider since the dramatically quieter and that's because of all the technology that's gone into their development. So what we and the FAA are doing we're going to continue that trend. We have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent, the industry has a vested interest in seeing these products get into the fleet, they have skin in the game too. And so we work with them and what we're		•	1	
the aircraft takes off. And all aircrafts has to meet the standard to in order to meet the air worthiness requirements. It is the same as safety they've got to meet a certain noise level. And all the sources of the aircraft contribute to the noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a poperation of a single aircraft and then operations during the course of the day, accounting for DNL, accounts for 10 DB shade of the aircraft takes off. And all aircrafts all the technology that's gone into their development. So what we and the FAA are doing we're going to continue that trend. We have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we accounting for DNL, accounts for 10 DB accounting for DNL, accounts for 10 DB so commercial aircraft have actually become much, much wider since the All the technology that's gone into their development. So what we and the FAA are doing we're going to continue that trend. We have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent, And by doing that, we accounting for DNL, accounts for 10 DB than 50 percent. And by doing that, we accounting for DNL, accounts for 10 DB accounting for DNL, accounts for 10 DB And so we work with them and what we're			1	
has to meet the standard to in order to meet the air worthiness requirements. It is the same as safety they've got to meet a certain noise level. And all the sources of the aircraft contribute to the noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. So what we and the FAA are doing we're going to continue that trend. We have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent. And by doing that, we know that industry has a vested interest in seeing these products get into the So commercial aircraft have actually become much, much wider since the actually development. So what we and the FAA are doing we're going to continue that trend. We have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent. And by doing that, we accounting for DNL, accounts for 10 DB know that industry has a vested interest in seeing these products get into the fleet, they have skin in the game too. And so we work with them and what we're				
meet the air worthiness requirements. It is the same as safety they've got to meet a certain noise level. And all the sources of the aircraft contribute to the noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. So we work with them and what we're going to continue that trend. We have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we fleet, they have skin in the game too. And so we work with them and what we're	_			
is the same as safety they've got to meet a certain noise level. And all the sources of the aircraft contribute to the noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB percent discounting the course of the day, so commercial aircraft have actually become much, much, much wider since the noise you guys know that. 12 have a program called the CLEEN program it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we than 50 percent. And by doing that, we show that industry has a vested interest in seeing these products get into the fleet, they have skin in the game too. And so we work with them and what we're			1	·
a certain noise level. And all the sources of the aircraft contribute to the noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. So commercial aircraft have actually become much, much, much wider since the noise you guys know that. 13 it's continuous lower emissions, energy it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we line counting for DNL, accounts for 10 DB penalty, it's two very different metrics. So commercial aircraft have actually become much, much, much wider since the		•		
sources of the aircraft contribute to the noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. So commercial aircraft have actually become much, much, much wider since the noise you guys know that. 13 it's continuous lower emissions, energy and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we show that industry has a vested interest in seeing these products get into the fleet, they have skin in the game too. And so we work with them and what we're		, , ,		5 5
noise you guys know that. Now the other set of metrics is in terms of community exposure. So we have a certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. So commercial aircraft have actually become much, much, much wider since the noise you guys know that. and noise program. This is a public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we know that industry has a vested interest in seeing these products get into the fleet, they have skin in the game too. And so we work with them and what we're				
Now the other set of metrics is in terms of community exposure. So we have a certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. So commercial aircraft have actually become much, much, much wider since the 15 public/private partnership a true partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we know that industry has a vested interest in seeing these products get into the fleet, they have skin in the game too. And so we work with them and what we're				
terms of community exposure. So we have a certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we know that industry has a vested interest penalty, it's two very different metrics. So commercial aircraft have actually become much, much, much wider since the 16 partnership with industry, where industry has to put in over 50 percent of the cost. We, the federal government, put in less than 50 percent. And by doing that, we know that industry has a vested interest in seeing these products get into the fleet, they have skin in the game too. And so we work with them and what we're				. •
certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. So commercial aircraft have actually become much, much wider since the some single aircraft and then that the course of the cost. We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we know that industry has a vested interest in seeing these products get into the fleet, they have skin in the game too. And so we work with them and what we're				
operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. So commercial aircraft have actually become much, much, much wider since the Note to detail the document of the day. We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we know that industry has a vested interest in seeing these products get into the fleet, they have skin in the game too. And so we work with them and what we're		terms of community exposure. So we have a		
the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. So commercial aircraft have actually become much, much, much wider since the than 50 percent, the industry puts in more than 50 percent. And by doing that, we know that industry has a vested interest in seeing these products get into the fleet, they have skin in the game too. And so we work with them and what we're			1 1/	
operations during the course of the day, 20 than 50 percent. And by doing that, we 21 accounting for DNL, accounts for 10 DB 22 penalty, it's two very different metrics. 23 So commercial aircraft have actually 26 become much, much, much wider since the 27 than 50 percent. And by doing that, we 28 know that industry has a vested interest 29 in seeing these products get into the 29 fleet, they have skin in the game too. 29 And so we work with them and what we're	17	certification requirement for the		
21 accounting for DNL, accounts for 10 DB 22 penalty, it's two very different metrics. 23 So commercial aircraft have actually 24 become much, much, much wider since the 25 know that industry has a vested interest 26 in seeing these products get into the 27 fleet, they have skin in the game too. 28 And so we work with them and what we're	17 18	certification requirement for the operation of a single aircraft and then	18	We, the federal government, put in less
penalty, it's two very different metrics. 22 in seeing these products get into the 23 So commercial aircraft have actually 24 become much, much, much wider since the 25 in seeing these products get into the 26 fleet, they have skin in the game too. 27 And so we work with them and what we're	17 18 19	certification requirement for the operation of a single aircraft and then the community exposure is set by all the	18 19	We, the federal government, put in less than 50 percent, the industry puts in more
So commercial aircraft have actually 23 fleet, they have skin in the game too. 24 become much, much, much wider since the 23 And so we work with them and what we're	17 18 19 20	certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day,	18 19 20	We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we
become much, much, much wider since the 24 And so we work with them and what we're	17 18 19 20 21	certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB	18 19 20 21	We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we know that industry has a vested interest
7 and 50 We Work With them and What Work	17 18 19 20 21 22	certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics.	18 19 20 21 22	We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we know that industry has a vested interest in seeing these products get into the
working on are our technologies that	17 18 19 20 21 22 23	certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. So commercial aircraft have actually	18 19 20 21 22 23	We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we know that industry has a vested interest in seeing these products get into the fleet, they have skin in the game too.
	17 18 19 20 21 22 23 24	certification requirement for the operation of a single aircraft and then the community exposure is set by all the operations during the course of the day, accounting for DNL, accounts for 10 DB penalty, it's two very different metrics. So commercial aircraft have actually become much, much, much wider since the	18 19 20 21 22 23 24	We, the federal government, put in less than 50 percent, the industry puts in more than 50 percent. And by doing that, we know that industry has a vested interest in seeing these products get into the fleet, they have skin in the game too. And so we work with them and what we're

			_
	Page 29		Page 31
1	Proceedings	1	Proceedings
2	reduce fuel emissions and noise.	2	to us and introducing fuel burn is also
3	We're also using this program to	3	important both from an airline economics
4	work on with the industry, advance on	4	perspective and also from a climate
5	alternative fuel. And we work with	5	perspective.
6	industry to conduct ground and/or flight	6	The last straw there we have a goal
7	test to show that the technologies are	7	of technologies that would enter in the
8	certifiable and can be introduced into the	8	service. We, thus far, have some
9	fleet. And this is important because	9	technologies entered in the service. But
10	there is not necessarily an economic	10	we're working with industry and you have
11	incentive to develop some of these	11	certain windows that you have to hit in
12	technologies. So by the government	12	order for the technology to be operated.
13	working with the private sector, we're	13	These are multibillion dollar programs
14	helping to incentivize these technologies	14	that are offering to buy the manufacturers
15	to enter the fleet faster than they would	15	and they have certain windows where the
16	have on their own in these market forces.	16	technology has to be available to go on to
17	We set up the CLEEN air program in	17	the industry. So while some of our
18	five-year phases. The first five-year	18	technologies aren't getting in right now,
19	phases from 2010 to 2015.	19	they are available for the next aircraft
20	We're currently in the second phase	20	lines that come out.
21	2016 to 2020. We're laying down the	21	MS. MENOS: Frieda Menos,
22	groundwork for a third phase from 2021 to	22	Congressman Jeffries. You mentioned
23	2025. These are all included within the	23	something about the funding, can you just
24	president's budget. So the budget that we	24	repeat that again? What was fully funded?
25	had for phase one and phase two that's the	25	Both parts are
	naanen pinaee ene ena pinaee me mane ane		2011. points and
	Page 30		Page 32
1	Proceedings	1	Proceedings
2	FAA contribution for phase one and phase	2	MR. HILEMAN: So the moneys that you
3	two of the program, the FAA would have	3	see up here
4	invested roughly \$225 million matched with	4	The question was about the funding.
5	industry that equates that to nearly half	5	So the phase one program is obviously
6	a billion of investment and technology	6	already money already spent because that's
7	reducing noise emissions and fuel. We	7	in the past.
8	have a noise reduction goal and an	8	The phase two program is funded.
9	emissions reduction goal and fuel burn	9	The expectation with the current budget
10	reduction goal shown on the screen here.	10	sitting on the hill would be that it would
11	That would take the noise levels from that	11	meet the hundred million dollar level
12	previous chart I showed you that was 25 DB	12	shown there.
13	below stage five.	13	Phase three budget levels are not
14	So if you follow the mouse, the goal	14	shown here because they are still in
15	would be to get down here. Now, I'll tell	15	development as people here pay attention
16	you right now that noise reduction is an	16	to what's going on in Washington, they
17	incredibly hard thing to do. I've been	17	know that there is a bit of a difference
18	working on technology development for	18	between what the administration wants and
19	about 20 years now and I know it's hard to	19	what congress wants. Phase three is TBD,
20	believe but it's an incredibly hard thing	20	but it is included in the present budget.
21	to do to get to introduce to an aircraft.	21	MR. HOPPENHAUER: On the noise
22	But we're working very hard on it and then	22	overcome reduction goal, we're currently
23	obviously emissions are very important, we	23	in
24	need to keep emissions from the fleet	24	You said that the planes they are
25	being reduced. Air quality is important	25	producing here are stage five aircraft,

	Page 33		Page 35
1	Proceedings	1	Proceedings
2	does that mean they have the 25 DB noise	2	we also have a website shown here,
3	reduction?	3	faa.gov/go/cleen. Those have the full
4	MR. HILEMAN: The 25 DB cumulative	4	list of technologies.
5	noise reduction is the goal for the	5	I think the fact sheet has all the
6	program. That is our goal that we're	6	technologies and provides this information
7	going to achieve. The aircrafts that are	7	and more. But what I'm covering here in
8	in production is shown on the previous	8	technologies that specifically have noise
9	slide and those aircrafts are the ones	9	benefit is that I was told was the primary
10	seen here. This is not an all	10	interest. So we've worked with Boeing to
11	encompassing list, this is select Boeing	11	develop what's called an adaptive training
12	and Airbus aircraft. And obviously there	12	edge. What this could potentially do is
13	are other manufacturers such as, RDA,	13	
14		14	tweak the airflow geometry such that you
15	Gulfstream to name just a few. You can	15	can achieve the additional benefit of 2 DB
16	see that the levels I'm eyeballing them	16	and fuel reduction. The use of new
17	off the chart are anywhere from stage five	17	material for the nozzle on the engine.
	minus eight to stage five minus 15.	18	This could deal a 2 DB direct noise
18	Again, I'm eyeballing this.		benefit, but it would enable engines to go
19	MR. HUISMAN: Can I make a	19	to a more efficient design. That more
20	suggestion? I know people want to ask	20	efficient design burns less fuel and would
21	questions and you were willing to take	21	result in less noise. So it is an amazing
22	questions during the presentation. Can	22	technology. We've worked very closely
23	you just wait and hold your question,	23	with Brett and Whitney on the turbo fan.
24	write it down if you need to. Wait until	24	This is an engine concept that's in
25	the presentation ends.	25	operation right now. We were working with
	Page 34		Page 36
1	Proceedings	1	Proceedings
2	MR. HILEMAN: Great idea. I will go	2	them to expand it's applicability to
3	through the full deck to make sure we get	3	larger aircraft and to go over the large
4	everything covered. I appreciate that.	4	
			reductions to a larger part of the fleet
5		5	reductions to a larger part of the fleet. We've worked very closely with
5 6	MR. HUISMAN: Thank you much.	5 6	We've worked very closely with
6	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program	1	We've worked very closely with General Electric first in the development
6 7	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight	6 7	We've worked very closely with General Electric first in the development of the open motor engine. We did an
6 7 8	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And	6 7 8	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel
6 7	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase	6 7	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found
6 7 8 9 10	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase	6 7 8 9	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage
6 7 8 9 10 11	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a	6 7 8 9 10 11	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial
6 7 8 9 10 11 12	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an	6 7 8 9 10 11 12	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five
6 7 8 9 10 11 12 13	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an engine different engine components.	6 7 8 9 10 11	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five requirement with margin. So we thought
6 7 8 9 10 11 12 13	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an engine different engine components. The CLEEN technology is changing the	6 7 8 9 10 11 12 13	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five requirement with margin. So we thought that was a pretty good success. We're
6 7 8 9 10 11 12 13 14	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an engine different engine components. The CLEEN technology is changing the flight (inaudible) system in the cockpit	6 7 8 9 10 11 12 13	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five requirement with margin. So we thought that was a pretty good success. We're current
6 7 8 9 10 11 12 13 14 15	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an engine different engine components. The CLEEN technology is changing the flight (inaudible) system in the cockpit and then improve combustion (inaudible)	6 7 8 9 10 11 12 13 14	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five requirement with margin. So we thought that was a pretty good success. We're current That was part of CLEEN phase one.
6 7 8 9 10 11 12 13 14 15 16	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an engine different engine components. The CLEEN technology is changing the flight (inaudible) system in the cockpit and then improve combustion (inaudible) the engine and (inaudible) emissions.	6 7 8 9 10 11 12 13 14 15 16	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five requirement with margin. So we thought that was a pretty good success. We're current That was part of CLEEN phase one. We're currently working with GE to figure
6 7 8 9 10 11 12 13 14 15 16 17	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an engine different engine components. The CLEEN technology is changing the flight (inaudible) system in the cockpit and then improve combustion (inaudible) the engine and (inaudible) emissions. Phase two covers similar ground on	6 7 8 9 10 11 12 13 14 15 16 17	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five requirement with margin. So we thought that was a pretty good success. We're current That was part of CLEEN phase one. We're currently working with GE to figure out how we could further reduce fan noise.
6 7 8 9 10 11 12 13 14 15 16 17 18	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an engine different engine components. The CLEEN technology is changing the flight (inaudible) system in the cockpit and then improve combustion (inaudible) the engine and (inaudible) emissions. Phase two covers similar ground on the project on fuselage redesign. So I	6 7 8 9 10 11 12 13 14 15 16 17 18	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five requirement with margin. So we thought that was a pretty good success. We're current That was part of CLEEN phase one. We're currently working with GE to figure out how we could further reduce fan noise. What has happened over the course of time
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an engine different engine components. The CLEEN technology is changing the flight (inaudible) system in the cockpit and then improve combustion (inaudible) the engine and (inaudible) emissions. Phase two covers similar ground on the project on fuselage redesign. So I have two slides to talk a bit more about	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five requirement with margin. So we thought that was a pretty good success. We're current That was part of CLEEN phase one. We're currently working with GE to figure out how we could further reduce fan noise. What has happened over the course of time over the last few decades, if you go back
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an engine different engine components. The CLEEN technology is changing the flight (inaudible) system in the cockpit and then improve combustion (inaudible) the engine and (inaudible) emissions. Phase two covers similar ground on the project on fuselage redesign. So I have two slides to talk a bit more about the technology that are here. This is not	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five requirement with margin. So we thought that was a pretty good success. We're current That was part of CLEEN phase one. We're currently working with GE to figure out how we could further reduce fan noise. What has happened over the course of time over the last few decades, if you go back to the 1970's and you heard an aircraft
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an engine different engine components. The CLEEN technology is changing the flight (inaudible) system in the cockpit and then improve combustion (inaudible) the engine and (inaudible) emissions. Phase two covers similar ground on the project on fuselage redesign. So I have two slides to talk a bit more about the technology that are here. This is not an all-encompassing list. I was very	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five requirement with margin. So we thought that was a pretty good success. We're current That was part of CLEEN phase one. We're currently working with GE to figure out how we could further reduce fan noise. What has happened over the course of time over the last few decades, if you go back to the 1970's and you heard an aircraft taking off, all you heard was the jet
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an engine different engine components. The CLEEN technology is changing the flight (inaudible) system in the cockpit and then improve combustion (inaudible) the engine and (inaudible) emissions. Phase two covers similar ground on the project on fuselage redesign. So I have two slides to talk a bit more about the technology that are here. This is not an all-encompassing list. I was very happy to see that the fact sheet for the	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five requirement with margin. So we thought that was a pretty good success. We're current That was part of CLEEN phase one. We're currently working with GE to figure out how we could further reduce fan noise. What has happened over the course of time over the last few decades, if you go back to the 1970's and you heard an aircraft taking off, all you heard was the jet exhaust that was a very loud large rumble.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. HUISMAN: Thank you much. MR. HILEMAN: So the CLEEN program itself, we're in partnership with eight different companies I'm shown here. And this covers both the first five-year phase and the second five-year phase. The phase one technology is focused on a revolutionary engine design, an engine different engine components. The CLEEN technology is changing the flight (inaudible) system in the cockpit and then improve combustion (inaudible) the engine and (inaudible) emissions. Phase two covers similar ground on the project on fuselage redesign. So I have two slides to talk a bit more about the technology that are here. This is not an all-encompassing list. I was very	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	We've worked very closely with General Electric first in the development of the open motor engine. We did an actual engine test in a wind tunnel facility and measured the noise and found out that it could actually meet the stage four requirements on the substantial margin, it would also meet the stage five requirement with margin. So we thought that was a pretty good success. We're current That was part of CLEEN phase one. We're currently working with GE to figure out how we could further reduce fan noise. What has happened over the course of time over the last few decades, if you go back to the 1970's and you heard an aircraft taking off, all you heard was the jet

	D 07		· .
	Page 37		Page 39
1	Proceedings	1	Proceedings
2	also going to hear the fan from the front	2	their findings and they report to whoever
3	of the engine. The technology development	3	is available here in the bottom. So they
4	that has been done for the last couple	4	looked at the impact on fuel burn and
5	decades is focused on going to larger	5	noise out to 2050 for these technologies.
6	diameter engine, reduce the fan exit	6	They looked at the phase one clean
7	velocity that makes the jet noise less.	7	technologies for this initial report
8	Now we have to deal with fan noise. This	8	that's shown here and also in the lower
9	is what technology is about you solve one	9	right. That report was put out in 2015.
10	problem such that then you can work on	10	So the clean phase two technologies
11	other problems all in the interest of	11	had not been evaluated, they're currently
12	bringing all the noise down.	12	going to evaluate clean phase two
13	We are also working with Aurora	13	technologies. The key result is that if
14	Flight Sciences, which was bought last	14	the CLEEN phase two technologies were
15	year by the Boeing company and developing	15	fully introduced into the fleet, there
16	a different fuselage configuration one	16	would be 22 million gallons of jet fuel
17	that is (inaudible) lifting. So that the	17	saved. This is going to be equivalent to
18	fuselage actually lifts which makes the	18	taking 1.7 million cars off the road
19	aircraft more efficient and lighter.	19	between 2025 and 2050. And there would be
20	Lighter aircrafts are quite better, they	20	a 13 percent decrease of (inaudible) the
21	don't have as much thrust. It also could	21	land area and this is for that initial
22	enable a revolutionary concept of putting	22	\$125 million investment by the federal
23	the engines above the fuselage, which is	23	government with industry. So we're
24	something that in the FAA the technology	24	looking for these technologies to say the
25	development for technologies that are	25	least. So that's what I have in the CLEEN
	Page 38		Page 40
1	Proceedings	1	Proceedings
2	fairly close and ready for entering in the	2	program. Again, I can deep dive, but I'm
3	service, NASA focuses us more on	3	going to go through AEDT to be mindful of
4	technologies that are further out. And I	4	your time and be respectful of my time
5	could tell you more about other	5	here with you.
6	technologies we're developing. I will	6	So I want to shift gears completely.
7	note that one of the technologies that we	7	So that was the CLEEN program, it is a
8	matured in CLEEN general electric is a low	8	public/private partnership between the FAA
9	knots combuster. That is actually on	9	and industry to accelerate the
10	every single Boeing 737 Max leaving the	10	technologies of their fleet. So another
11	assembly line and it had over a 60 percent	11	thing we do in my office is we have
12	reduction in knots submissions. So there	12	responsibilities for the Aviation
13	it's clearly successful and will reduce	13	Environmental Design Tool, AEDT. Prior to
14	nitrogen oxide pollution.	14	that my office had responsibility for the
15	So the other thing we've done	15	Integrated Noise Model. So the Integrated
16	besides working directly with the	16	Noise Model is the FAA's legacy tool.
17	industry. I'm the program manager for the	17	It's introduced in 1978 and it was the
18	(inaudible) Center of Excellence. Georgia	18	regulatory tool through to the middle of
19	Tech is one of our members and we asked	19	2015.
20	Georgia Tech to go through and do an	20	So anything that was done during
21	assessment of the CLEEN technologies to	21	that period of time uses INM. It is also
22	estimate how they would enter the fleet,	22	used by hundreds upon hundreds of
23	what their benefits would be and basically	23	international users. And it's actually
24	go through and do an independent check of	24	(inaudible) some foreign countries. And
I _			
25	what industry has said. They published	25	its methodology is based upon

	D 44		D 40
	Page 41		Page 43
1	Proceedings	1	Proceedings
2	international agreed upon standards. And	2	engine technology. We've used it for FAA,
3	it is the basis for AEDT noise and	3	CLEEN and NASA programs. And there's a
4	performance calculations.	4	website here where you can learn more.
5	So what happened in about 2004,	5	Download it, anything else. The website
6	five, there was a realization that we had	6	is aedt.faa.gov.
7	a tool for noise, tools for emissions and	7	We have a plan for AEDT to continue
8	tools to do regional noise and tools to do	8	its developments, specifically geared
9	local noise and tools to do global noise.	9	towards improving noise calculations.
10	And we realized it is one aircraft. So we	10	When INM was developed and subsequently
11	enter from having INM in a variety of	11	AEDT, it was really focused in on modeling
12	tools to instead going with AEDT. So AEDT	12	DNL 56 because that was the best data we
13	was developed and was released to replace	13	had and that's where the majority of the
14	all of our legacy tools for environmental	14	issues were in the 1970's.
15	assessments. So we had magenta which is a	15	We are currently going through and
16	global noise tool. INM, local noise tool.	16	approving its ability to model noise at a
17	Then NIRS regional noise tool. We had	17	lower DNL. There is a very appropriate
18	EDMS which is a local emissions tool and	18	tool for modeling DNL 55, but that is not
19	then SAGE, a global emissions tool.	19	to say we can't make it better. That's a
20	AEDT replaces all these tools for	20	large part of the program.
21	environmental compliance, research and	21	So we're adding noise and
22	policy analysis. So this is one word that	22	performance information for additional
23	is used for the program and needs and it	23	aircraft types. We're improving take-off
24	is the tool that we're continuing to	24	weight and thrust modeling. We're
25	develop. It's the aviation and	25	improving the aircraft performance module
	Page 42		Page 44
1	Proceedings	1	Proceedings
2			FIOCEEUIIUS
	environmental design tool. And there	2	
3	environmental design tool. And there actually was a guestion associated with	2 3	and we're laying groundwork to more
3 4	actually was a question associated with		and we're laying groundwork to more explicitly consider all of the sources of
	actually was a question associated with that which was what was the acronym name.	3	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine
4	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a	3 4	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology
4 5	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over	3 4 5	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy
4 5 6	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than	3 4 5 6	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been
4 5 6 7	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities	3 4 5 6 7	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National
4 5 6 7 8	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States.	3 4 5 6 7 8	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which
4 5 6 7 8 9	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn,	3 4 5 6 7 8 9	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on
4 5 6 7 8 9	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously.	3 4 5 6 7 8 9	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which
4 5 6 7 8 9 10	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions,	3 4 5 6 7 8 9 10	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those
4 5 6 7 8 9 10 11	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions, for the nation or the globe. We use it at	3 4 5 6 7 8 9 10 11	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those features. It can compute a variety of
4 5 6 7 8 9 10 11 12 13	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions, for the nation or the globe. We use it at all of these spaces. It is used for air	3 4 5 6 7 8 9 10 11 12 13	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those
4 5 6 7 8 9 10 11 12 13	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions, for the nation or the globe. We use it at all of these spaces. It is used for air space and airport design and planning.	3 4 5 6 7 8 9 10 11 12 13	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those features. It can compute a variety of metrics such as number of above calculations for some metrics. And it's
4 5 6 7 8 9 10 11 12 13 14	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions, for the nation or the globe. We use it at all of these spaces. It is used for air space and airport design and planning. Any review under the National	3 4 5 6 7 8 9 10 11 12 13 14	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those features. It can compute a variety of metrics such as number of above calculations for some metrics. And it's A-rated (inaudible) noise, AMC (inaudible)
4 5 6 7 8 9 10 11 12 13 14 15 16	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions, for the nation or the globe. We use it at all of these spaces. It is used for air space and airport design and planning.	3 4 5 6 7 8 9 10 11 12 13 14 15 16	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those features. It can compute a variety of metrics such as number of above calculations for some metrics. And it's A-rated (inaudible) noise, AMC (inaudible) rated noise exposure level. We build
4 5 6 7 8 9 10 11 12 13 14 15 16 17	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions, for the nation or the globe. We use it at all of these spaces. It is used for air space and airport design and planning. Any review under the National Environmental Policy Act would require the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those features. It can compute a variety of metrics such as number of above calculations for some metrics. And it's A-rated (inaudible) noise, AMC (inaudible) rated noise exposure level. We build capability to look at environmental
4 5 6 7 8 9 10 11 12 13 14 15 16 17	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions, for the nation or the globe. We use it at all of these spaces. It is used for air space and airport design and planning. Any review under the National Environmental Policy Act would require the use of AEDT. We use it to inform the standard	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those features. It can compute a variety of metrics such as number of above calculations for some metrics. And it's A-rated (inaudible) noise, AMC (inaudible) rated noise exposure level. We build
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions, for the nation or the globe. We use it at all of these spaces. It is used for air space and airport design and planning. Any review under the National Environmental Policy Act would require the use of AEDT. We use it to inform the standard setting process to make noise in emissions	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those features. It can compute a variety of metrics such as number of above calculations for some metrics. And it's A-rated (inaudible) noise, AMC (inaudible) rated noise exposure level. We build capability to look at environmental justice populations. Such that we can better understand communities that are
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions, for the nation or the globe. We use it at all of these spaces. It is used for air space and airport design and planning. Any review under the National Environmental Policy Act would require the use of AEDT. We use it to inform the standard setting process to make noise in emissions standards within the international civil	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those features. It can compute a variety of metrics such as number of above calculations for some metrics. And it's A-rated (inaudible) noise, AMC (inaudible) rated noise exposure level. We build capability to look at environmental justice populations. Such that we can better understand communities that are impacted by changes in on basically
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions, for the nation or the globe. We use it at all of these spaces. It is used for air space and airport design and planning. Any review under the National Environmental Policy Act would require the use of AEDT. We use it to inform the standard setting process to make noise in emissions standards within the international civil organizations committee on aviation	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those features. It can compute a variety of metrics such as number of above calculations for some metrics. And it's A-rated (inaudible) noise, AMC (inaudible) rated noise exposure level. We build capability to look at environmental justice populations. Such that we can better understand communities that are impacted by changes in on basically anything.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions, for the nation or the globe. We use it at all of these spaces. It is used for air space and airport design and planning. Any review under the National Environmental Policy Act would require the use of AEDT. We use it to inform the standard setting process to make noise in emissions standards within the international civil	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those features. It can compute a variety of metrics such as number of above calculations for some metrics. And it's A-rated (inaudible) noise, AMC (inaudible) rated noise exposure level. We build capability to look at environmental justice populations. Such that we can better understand communities that are impacted by changes in on basically anything. And then we have upgraded and
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	actually was a question associated with that which was what was the acronym name. So AEDT is a commuter program as a graphical user interface, there is over 300 licenses out to the world. More than half the licenses are actually to entities outside the United States. It computes noise, fuel burn, emissions and air quality simultaneously. It is able to do it in airport, regions, for the nation or the globe. We use it at all of these spaces. It is used for air space and airport design and planning. Any review under the National Environmental Policy Act would require the use of AEDT. We use it to inform the standard setting process to make noise in emissions standards within the international civil organizations committee on aviation environmental protection. And we also use	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	and we're laying groundwork to more explicitly consider all of the sources of noises from aircraft, not just the engine noise. So there had been some methodology updates since INM, so there are legacy capabilities within NIRS that have been brought over. NIRS is used for National Environmental Policy Abnormality, which requires certain types of graphics on certain types of and it has those outputs. It is not an INM and it now has those features. It can compute a variety of metrics such as number of above calculations for some metrics. And it's A-rated (inaudible) noise, AMC (inaudible) rated noise exposure level. We build capability to look at environmental justice populations. Such that we can better understand communities that are impacted by changes in on basically anything.

	Page 45		Page 47
1	_	1	•
1	Proceedings		Proceedings
2	experienced on the ground. Honestly the	2	I can answer as many questions as
3	only thing that would affect noise between	3	these gentleman think that's useful and
4	INM and the last bullet point and that's	4	Steve can take anything that we're not
5	minor, it's not really a large difference.	5	able to address down.
6	So the INM calculations are the same as	6	MR. HUISMAN: James, before we open
7	the AEDT calculations or the current	7	up the questions, which we will
8	version. Functionality, we're getting	8	momentarily, will this presentation be
9	ready to release a new version of AEDT,	9	available to this group, can we get a copy
10	AEDT 3A. The current version is 2D.	10	of it? And you mentioned the website
11	We're hoping to release 3A this calendar	11	address, that's on the presentation.
12	year and it's going to have a more	12	MR. HILEMAN: There is a couple of
13	accurate and unified model aircraft	13	slides that have web links at the bottom.
14	performance. And it's going to have	14	MR. HUISMAN: Any questions?
15	improved aircraft take-off wait and	15	(Inaudible speaker.)
16	take-off thrust modeling. And then it	16	MR. HILEMAN: The question is about
17	will deal with the speed of the aircraft	17	designing and any technologies dealing
18	on take-off. We're also including some	18	with deicing. CLEEN program does not deal
19	fleet database updates so whenever we do	19	with deicing?
20	any one of these we update the database.	20	MR. BRAUNSTEIN: Assemblyman Ed
21	So we will have the 737 Max, the	21	Braunstein, Northeast Queens. In
22	Gulfstream G650 and Boeing aircraft.	22	Northeast Queens for the FAA, we've been
23	So this is my closing slide, you	23	experiencing I believe, it's either the
24	know, noise from aircraft has been reduced	24	Whitestone or the Tennis Climb, either one
25	considerably on a per operation basis.	25	for about three weeks in a row now. It
	considerably on a per operation bacie.		ioi agoat anos mosile in a few flow. It
	Page 46		Page 48
1	Proceedings	1	Proceedings
2	That's obvious from looking at the	2	seems to me like from 6 o'clock in the
3	certification data. It is also obvious	3	morning until midnight every single day.
4	that noise remains a challenge. And I	4	I don't understand why
5	will note that the first aircraft noise	5	And I get the same e-mail when I
6	editorial was written four years prior to	6	reach out to Jennifer Solomon that says
7	the first commercial flight, this is 1911	7	well, we make these decisions based on
8	was that first editorial. 1915 was the	8	weather patterns and flights at JFK. But
9	first flight. Here we are 107 years later	9	I don't understand
	·	10	. don't diddiotalid
10	and this is still a challenge. So we have		l see
11	and this is still a challenge. So we have	11	I see Llook at web trackers I see JFK's
11	a comprehensive approach within the FAA to		I look at web trackers I see JFK's
11 12	a comprehensive approach within the FAA to try to address this challenge. We know	12	I look at web trackers I see JFK's flight configurations continuing to
11 12 13	a comprehensive approach within the FAA to try to address this challenge. We know it's been a challenge for a long time.	12 13	I look at web trackers I see JFK's flight configurations continuing to change. But it never changed for
11 12 13 14	a comprehensive approach within the FAA to try to address this challenge. We know it's been a challenge for a long time. The technology is essential to achieve	12 13 14	I look at web trackers I see JFK's flight configurations continuing to change. But it never changed for Northeast Queens pretty much the northeast
11 12 13 14 15	a comprehensive approach within the FAA to try to address this challenge. We know it's been a challenge for a long time. The technology is essential to achieve additional introductions. We need to	12 13 14 15	I look at web trackers I see JFK's flight configurations continuing to change. But it never changed for Northeast Queens pretty much the northeast climb 18 hours a day I believe that in the
11 12 13 14 15 16	a comprehensive approach within the FAA to try to address this challenge. We know it's been a challenge for a long time. The technology is essential to achieve additional introductions. We need to introduce a new set of source and we also	12 13 14 15 16	I look at web trackers I see JFK's flight configurations continuing to change. But it never changed for Northeast Queens pretty much the northeast climb 18 hours a day I believe that in the Whitestone Climb there are two other
11 12 13 14 15 16 17	a comprehensive approach within the FAA to try to address this challenge. We know it's been a challenge for a long time. The technology is essential to achieve additional introductions. We need to introduce a new set of source and we also need to be able to model them more	12 13 14 15 16 17	I look at web trackers I see JFK's flight configurations continuing to change. But it never changed for Northeast Queens pretty much the northeast climb 18 hours a day I believe that in the Whitestone Climb there are two other departures that can be available, that can
11 12 13 14 15 16 17	a comprehensive approach within the FAA to try to address this challenge. We know it's been a challenge for a long time. The technology is essential to achieve additional introductions. We need to introduce a new set of source and we also need to be able to model them more accurately so you can get a better	12 13 14 15 16 17	I look at web trackers I see JFK's flight configurations continuing to change. But it never changed for Northeast Queens pretty much the northeast climb 18 hours a day I believe that in the Whitestone Climb there are two other departures that can be available, that can be used at the same time at JFK. Am I
11 12 13 14 15 16 17 18 19	a comprehensive approach within the FAA to try to address this challenge. We know it's been a challenge for a long time. The technology is essential to achieve additional introductions. We need to introduce a new set of source and we also need to be able to model them more accurately so you can get a better understanding of noise and also so we are	12 13 14 15 16 17 18 19	I look at web trackers I see JFK's flight configurations continuing to change. But it never changed for Northeast Queens pretty much the northeast climb 18 hours a day I believe that in the Whitestone Climb there are two other departures that can be available, that can be used at the same time at JFK. Am I right?
11 12 13 14 15 16 17 18 19	a comprehensive approach within the FAA to try to address this challenge. We know it's been a challenge for a long time. The technology is essential to achieve additional introductions. We need to introduce a new set of source and we also need to be able to model them more accurately so you can get a better understanding of noise and also so we are in a better position to think about how	12 13 14 15 16 17 18 19 20	I look at web trackers I see JFK's flight configurations continuing to change. But it never changed for Northeast Queens pretty much the northeast climb 18 hours a day I believe that in the Whitestone Climb there are two other departures that can be available, that can be used at the same time at JFK. Am I right? MR. HILEMAN: I will just note that
11 12 13 14 15 16 17 18 19 20 21	a comprehensive approach within the FAA to try to address this challenge. We know it's been a challenge for a long time. The technology is essential to achieve additional introductions. We need to introduce a new set of source and we also need to be able to model them more accurately so you can get a better understanding of noise and also so we are in a better position to think about how noise can be reduced. So I really do	12 13 14 15 16 17 18 19 20 21	I look at web trackers I see JFK's flight configurations continuing to change. But it never changed for Northeast Queens pretty much the northeast climb 18 hours a day I believe that in the Whitestone Climb there are two other departures that can be available, that can be used at the same time at JFK. Am I right? MR. HILEMAN: I will just note that I'm with the office of environment and
11 12 13 14 15 16 17 18 19 20 21	a comprehensive approach within the FAA to try to address this challenge. We know it's been a challenge for a long time. The technology is essential to achieve additional introductions. We need to introduce a new set of source and we also need to be able to model them more accurately so you can get a better understanding of noise and also so we are in a better position to think about how noise can be reduced. So I really do appreciate the opportunity to come and	12 13 14 15 16 17 18 19 20 21 22	I look at web trackers I see JFK's flight configurations continuing to change. But it never changed for Northeast Queens pretty much the northeast climb 18 hours a day I believe that in the Whitestone Climb there are two other departures that can be available, that can be used at the same time at JFK. Am I right? MR. HILEMAN: I will just note that I'm with the office of environment and energy so I have nothing to do with Monica
11 12 13 14 15 16 17 18 19 20 21 22 23	a comprehensive approach within the FAA to try to address this challenge. We know it's been a challenge for a long time. The technology is essential to achieve additional introductions. We need to introduce a new set of source and we also need to be able to model them more accurately so you can get a better understanding of noise and also so we are in a better position to think about how noise can be reduced. So I really do appreciate the opportunity to come and talk. It's important to communicate what	12 13 14 15 16 17 18 19 20 21 22 23	I look at web trackers I see JFK's flight configurations continuing to change. But it never changed for Northeast Queens pretty much the northeast climb 18 hours a day I believe that in the Whitestone Climb there are two other departures that can be available, that can be used at the same time at JFK. Am I right? MR. HILEMAN: I will just note that I'm with the office of environment and energy so I have nothing to do with Monica Levy.
11 12 13 14 15 16 17 18 19 20 21	a comprehensive approach within the FAA to try to address this challenge. We know it's been a challenge for a long time. The technology is essential to achieve additional introductions. We need to introduce a new set of source and we also need to be able to model them more accurately so you can get a better understanding of noise and also so we are in a better position to think about how noise can be reduced. So I really do appreciate the opportunity to come and	12 13 14 15 16 17 18 19 20 21 22	I look at web trackers I see JFK's flight configurations continuing to change. But it never changed for Northeast Queens pretty much the northeast climb 18 hours a day I believe that in the Whitestone Climb there are two other departures that can be available, that can be used at the same time at JFK. Am I right? MR. HILEMAN: I will just note that I'm with the office of environment and energy so I have nothing to do with Monica

	<u> </u>		
	Page 49		Page 51
1	Proceedings	1	Proceedings
2	briefing because this kind of talks to	2	of Community Board 13. So having answered
3	that a little bit.	3	that about the CLEEN program, would it be
4	MS. CARROLL: Susan Carroll	4	a fair statement to say that it's kind of
5	representing Borough President Melinda	5	futile for us who are looking for benefits
6	Katz. I just want to know since you're	6	in our communities that are inundated with
7	lead scientist, are you involved with the	7	emissions and so forth. Would it be a
8	noise survey that FAA is undergoing	8	fair statement to say that any kind of
9	because you know as	9	efforts we make to mitigate these events
10	MR. HILEMAN: What's your question?	10	would be futile given the fact that you
11	MS. CARROLL: I'm just asking if	11	have already said all of this depends on
12	you're involved in that survey, that's	12	the ongoing technology and design that
13	supposed to be coming out. As I'm sure	13	you're developing? So how dare us even
14	you know there has been a lot of questions	14	talk about these emissions when, in fact,
15	about the DNL metric and whether or not	15	it is contingent on your ongoing
16	it's obsolete. I know that people have	16	scientific technology and developments?
17	been waiting for the results of this study	17	MR. HILEMAN: Well, actually, I
18	so I just wanted to know.	18	respectfully disagree with you. So the
19	MR. HILEMAN: Yes, I am a part of	19	way that we have dealt with so if you
20	that.	20	go back again to the 1970's, not only were
21	MS. CARROLL: You have no other	21	the engines horribly loud, you can
22	information?	22	actually see the aircraft before you hear
23	MR. HILEMAN: The report is under	23	it because of the black soot coming out of
24	review by the FAA department.	24	the engines, you would actually see the
25	MR. MUNDY: Just a quick question,	25	pollution coming out of the engines.
	Page 50		Page 52
	•		
1	Proceedings	1	Proceedings
2	so the clean technologies that are being	2	Through technology, you look at a modern
3	developed and, you know, you're coming out	3	aircraft taking off, you can't see the
4	with better fuel consumption and lower	4	plane anymore. You can actually see the
5	noise, are those, you know, goals going to	5	difference between an A380 and a 737. The
6	be mandates for the industry to the top or	6	technology that we've developed through
7	separate discussions and maybe have it in	7	this program on the 737 Max on the
8	there? So is that something that they are	8	assembly line everyday is a 60 percent
9	going to adopt or is that our goal to	9	reduction in knots. And I think,
10	develop that technology?	10	something like a 60 percent reduction in
11	MR. HILEMAN: That's a great	11	black (inaudible). So the fact that we
12	question. We need to be clear on these	12	spent that money and made those
13	things. These are actually the	13	developments means that aircraft taking
	•	1	
14	operational goals that we set out when we	14	off are leading to less pollution that
14 15	operational goals that we set out when we setup the program. Then we ask industry	15	affects all of our lives. So I think it's
14 15 16	operational goals that we set out when we setup the program. Then we ask industry to respond to these goals and, you know,	15 16	affects all of our lives. So I think it's necessary to make these as future
14 15 16 17	operational goals that we set out when we setup the program. Then we ask industry to respond to these goals and, you know, provide technologies that can help us move	15 16 17	affects all of our lives. So I think it's necessary to make these as future aircrafts are also quieter and less
14 15 16 17 18	operational goals that we set out when we setup the program. Then we ask industry to respond to these goals and, you know, provide technologies that can help us move them. There is actually no mandates	15 16 17 18	affects all of our lives. So I think it's necessary to make these as future aircrafts are also quieter and less polluting. If we don't make these
14 15 16 17 18 19	operational goals that we set out when we setup the program. Then we ask industry to respond to these goals and, you know, provide technologies that can help us move them. There is actually no mandates implied by this. There is nothing about	15 16 17 18 19	affects all of our lives. So I think it's necessary to make these as future aircrafts are also quieter and less polluting. If we don't make these investments, we're due to having continued
14 15 16 17 18 19 20	operational goals that we set out when we setup the program. Then we ask industry to respond to these goals and, you know, provide technologies that can help us move them. There is actually no mandates implied by this. There is nothing about standard setting implied with these goals.	15 16 17 18 19 20	affects all of our lives. So I think it's necessary to make these as future aircrafts are also quieter and less polluting. If we don't make these investments, we're due to having continued pollution.
14 15 16 17 18 19 20 21	operational goals that we set out when we setup the program. Then we ask industry to respond to these goals and, you know, provide technologies that can help us move them. There is actually no mandates implied by this. There is nothing about standard setting implied with these goals. It is just aspirational goals to guide the	15 16 17 18 19 20 21	affects all of our lives. So I think it's necessary to make these as future aircrafts are also quieter and less polluting. If we don't make these investments, we're due to having continued pollution. MS. BECCE: Maria Becce. I have one
14 15 16 17 18 19 20 21 22	operational goals that we set out when we setup the program. Then we ask industry to respond to these goals and, you know, provide technologies that can help us move them. There is actually no mandates implied by this. There is nothing about standard setting implied with these goals. It is just aspirational goals to guide the program.	15 16 17 18 19 20 21 22	affects all of our lives. So I think it's necessary to make these as future aircrafts are also quieter and less polluting. If we don't make these investments, we're due to having continued pollution. MS. BECCE: Maria Becce. I have one major question if you can just expand on
14 15 16 17 18 19 20 21 22 23	operational goals that we set out when we setup the program. Then we ask industry to respond to these goals and, you know, provide technologies that can help us move them. There is actually no mandates implied by this. There is nothing about standard setting implied with these goals. It is just aspirational goals to guide the program. MR. MUNDY: Okay. Great. Thank	15 16 17 18 19 20 21 22 23	affects all of our lives. So I think it's necessary to make these as future aircrafts are also quieter and less polluting. If we don't make these investments, we're due to having continued pollution. MS. BECCE: Maria Becce. I have one major question if you can just expand on and then I have others that are integrated
14 15 16 17 18 19 20 21 22 23 24	operational goals that we set out when we setup the program. Then we ask industry to respond to these goals and, you know, provide technologies that can help us move them. There is actually no mandates implied by this. There is nothing about standard setting implied with these goals. It is just aspirational goals to guide the program. MR. MUNDY: Okay. Great. Thank you.	15 16 17 18 19 20 21 22 23 24	affects all of our lives. So I think it's necessary to make these as future aircrafts are also quieter and less polluting. If we don't make these investments, we're due to having continued pollution. MS. BECCE: Maria Becce. I have one major question if you can just expand on and then I have others that are integrated with each other concerning economic
14 15 16 17 18 19 20 21 22 23	operational goals that we set out when we setup the program. Then we ask industry to respond to these goals and, you know, provide technologies that can help us move them. There is actually no mandates implied by this. There is nothing about standard setting implied with these goals. It is just aspirational goals to guide the program. MR. MUNDY: Okay. Great. Thank	15 16 17 18 19 20 21 22 23	affects all of our lives. So I think it's necessary to make these as future aircrafts are also quieter and less polluting. If we don't make these investments, we're due to having continued pollution. MS. BECCE: Maria Becce. I have one major question if you can just expand on and then I have others that are integrated

	Page 53		Page 55
1	Proceedings	1	Proceedings
2	that noise reduction is very hard, can you	2	I'm thinking about is the NexGen
3	just expand on that a little bit? Why	3	technology coming in is more efficient in
4	Can you give us a couple of ideas	4	the sky. Although each individual
5	why it is so hard?	5	aircraft will be quieter if there is more
6	MR. HILEMAN: Absolutely, so from	6	aircrafts in the sky the quantity of noise
7	technological standpoints the reason why	7	doesn't change.
8	noise reduction is difficult is you have	8	MR. HILEMAN: Obviously, if you have
9	multiple sources. So you have an aircraft	9	two resources that is louder than one
10	that's taking off and what you hear	10	resource. If you have four it's going to
11	coming what you hear depending how old	11	be louder than two and so on. That goes
12	the aircraft is, you will hear the engine	12	without saying. So what we're doing is
13	exhaust and you will hear the fan. Those	13	we're working on a variety of them, one is
14	are two different sources of noise. If	14	to reduce noise at the source. We're also
15	you want to deal with them, you have to	15	working with researchers at MIT and Meyer
16	deal with them separately. When the	16	to figure out operational procedures and
17	aircraft is approaching you will hear the	17	are there opportunities there to get noise
18	high lift system, the things that deploy	18	reductions. Then we're developing the
19	off the wings and you will hear the	19	modeling that you saw here and also the
20	landing gear. So what you have to do is	20	science of understanding. And we're
21	find ways to make everything more	21	bringing these together to try to develop
22	aerodynamically smooth. But that's really	22	solutions to reduce noise.
23	hard with something like a landing gear.	23	Now, I can't comment on, you know,
24	So how do you do that? It's a matter of	24	if you have many more operations what that
25	thinking this through and how you deal	25	does to noise, that's a choice by a number
			,
	Page 54		Page 56
1	Proceedings	1	Proceedings
2	with the aerodynamics. And from the	2	of other entities. But my work here at
3	engine side we have tremendous strides in	3	this program is to understand and develop
4	reducing the jet velocity, the air coming	4	solutions.
5	out of the back engine. That's like the	5	MR. WEISS: But for an individual
6	large reductions in jet noise.	6	aircraft specifically as opposed to the
7	Now, we have the fan being the	7	sky, just so I understand, your work is
8	largest thing on the aircraft and we have	8	based on the noise of the individual
9	to think about how do we bring down that	9	aircraft, not as the sky as a whole.
10	noise. So it's a matter of it's lack	10	MR. HILEMAN: Yes, we're focused on
11	of technology. Where soon as you get one	11	reducing the noise from individual
12	something else pops up and you have to	12	operation not the entire cumulative
13	beat that one and that one. It's not to	13	operation.
14	say it's not possible, the trend I showed	14	MR. EVANS: Good evening. My name
15	earlier showed that it is very much	15	is Patrick Evans representing Congressman
16	possible and there is continued	16	Meeks. My question relates to the noise
17	improvements. It's just hard, it's	17	model, the INM model versus the AEDT
18	difficult, it's definitely possible, but	18	model. My question is: Given that this
19	not easy.	19	roll out seemed to take place sometime
20	MR. WEISS: Andrew Weiss, Town of	20	around 2015 why wasn't and then it
21	Hempstead. Just a quick question, I know	21	showed through your presentation that the
22	that you talked a lot about trying to	22	AEDT model is significantly superior to
23	reduce noise on individual aircrafts, but	23	the INM model. Why wasn't the AEDT model
24	is there any discussion where the thought	24	chosen as the preferred model for the Part
25	process about quantity, one of the things	25	150 studies that are being undertaken at

	Page 57		Page 59
1	Proceedings	1	Proceedings
2	JFK and LaGuardia airports?	2	Authority has repeatedly expressed a
3	MR. BROOKS: Andrew Brooks with the	3	commitment to, in the currency, use the
4	FAA. So as Jim mentioned AEDT became the	4	latest version of AEDT. It is actually
5	official model of record in May of 2015.	5	fortunate the way it's sequencing out
6	As you recall the Part 150 studies	6	because of the new capabilities of AEDT 3A
7	actually started prior to that. So the	7	as Jim discussed advanced the model even
8	kickoff meeting that we had with	8	more.
9	consultants for the New York studies was	9	So, you know, really the idea was to
10	actually October 28, 2014. I remember it	10	get something, get a framework, get it
11	because I'm a Giants fan and the Giants	11	going as soon as possible to start moving
12	won the series, so that's how I know for	12	towards a compatibility program and
13	sure that that's when it happened.	13	implementing that as it develops. And
14	So I don't want to talk about this	14	then as the program goes on and is updated
15	year or last year, but we'll talk about	15	to keep it more current.
16	2014 all you want. I know specifically	16	MR. HILEMAN: I would just follow
17	that's when that occurred. Soon following	17	that by reiterating something I said, I
18	the New Jersey studies had their kickoff,	18	know I talked a lot. I said a number of
19	we started up the tact meeting in early	19	things. Had they gone forward with the
20	2015. The roundtable efforts got underway	20	AEDT at the time, you would not get a
21	in 2015, all of that was tied into that.	21	different number, they are essentially the
22	However, the technical development of the	22	same results so it's essentially the same
23	model, the core model that generated the	23	model. I love AEDT. There is a lot of
24	actual maps that we accepted was well	24	great things INM cannot, but for this
25	underway by May of 2015. So we had	25	particular purpose, it doesn't get much
	Page 58		D 00
	1 490 00		Page 60
1	•	1	
1 2	Proceedings	1 2	Page 60 Proceedings different.
	Proceedings already done a full data pool. When I say		Proceedings different.
2	Proceedings	2	Proceedings
2 3	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their	2 3	Proceedings different. UNIDENTIFIED SPEAKER: My question
2 3 4	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and	2 3 4	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN
2 3 4 5	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the	2 3 4 5	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the
2 3 4 5 6	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and	2 3 4 5 6	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like
2 3 4 5 6 7	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all	2 3 4 5 6 7	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly
2 3 4 5 6 7 8 9	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to	2 3 4 5 6 7 8 9	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes
2 3 4 5 6 7 8	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT.	2 3 4 5 6 7 8	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies?
2 3 4 5 6 7 8 9	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series	2 3 4 5 6 7 8 9	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent
2 3 4 5 6 7 8 9 10	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time	2 3 4 5 6 7 8 9 10 11 12 13	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that
2 3 4 5 6 7 8 9 10 11	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time the decision was made to stay with INM	2 3 4 5 6 7 8 9 10 11	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that graphic in the upper right hand corner
2 3 4 5 6 7 8 9 10 11 12	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time the decision was made to stay with INM because it would have resulted in a	2 3 4 5 6 7 8 9 10 11 12 13	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that graphic in the upper right hand corner goes from the 1950's through to the early
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time the decision was made to stay with INM because it would have resulted in a substantial schedule delay to the Part 150	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that graphic in the upper right hand corner
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time the decision was made to stay with INM because it would have resulted in a substantial schedule delay to the Part 150 processes, all four of them to transition	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that graphic in the upper right hand corner goes from the 1950's through to the early 1970's. And what it is, it is the penetration of jet aircraft into the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time the decision was made to stay with INM because it would have resulted in a substantial schedule delay to the Part 150 processes, all four of them to transition to AEDT at that time. But the commitment	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that graphic in the upper right hand corner goes from the 1950's through to the early 1970's. And what it is, it is the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time the decision was made to stay with INM because it would have resulted in a substantial schedule delay to the Part 150 processes, all four of them to transition to AEDT at that time. But the commitment is that Part 150 is not a one-shot deal, it is a regulation that speaks to the noise exposure map; in other words, as you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that graphic in the upper right hand corner goes from the 1950's through to the early 1970's. And what it is, it is the penetration of jet aircraft into the airline. There is no technology that I can envision that would transform from
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time the decision was made to stay with INM because it would have resulted in a substantial schedule delay to the Part 150 processes, all four of them to transition to AEDT at that time. But the commitment is that Part 150 is not a one-shot deal, it is a regulation that speaks to the noise exposure map; in other words, as you start implementing the program over the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that graphic in the upper right hand corner goes from the 1950's through to the early 1970's. And what it is, it is the penetration of jet aircraft into the airline. There is no technology that I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time the decision was made to stay with INM because it would have resulted in a substantial schedule delay to the Part 150 processes, all four of them to transition to AEDT at that time. But the commitment is that Part 150 is not a one-shot deal, it is a regulation that speaks to the noise exposure map; in other words, as you start implementing the program over the course of time and other changes to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that graphic in the upper right hand corner goes from the 1950's through to the early 1970's. And what it is, it is the penetration of jet aircraft into the airline. There is no technology that I can envision that would transform from flying in prop to flying in chair. It took 15 years to turn over the entire
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time the decision was made to stay with INM because it would have resulted in a substantial schedule delay to the Part 150 processes, all four of them to transition to AEDT at that time. But the commitment is that Part 150 is not a one-shot deal, it is a regulation that speaks to the noise exposure map; in other words, as you start implementing the program over the course of time and other changes to operations of the airport, the data	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that graphic in the upper right hand corner goes from the 1950's through to the early 1970's. And what it is, it is the penetration of jet aircraft into the airline. There is no technology that I can envision that would transform from flying in prop to flying in chair. It took 15 years to turn over the entire fleet. There is a time, I can't give you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time the decision was made to stay with INM because it would have resulted in a substantial schedule delay to the Part 150 processes, all four of them to transition to AEDT at that time. But the commitment is that Part 150 is not a one-shot deal, it is a regulation that speaks to the noise exposure map; in other words, as you start implementing the program over the course of time and other changes to operations of the airport, the data underlying the map becomes old, too old to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that graphic in the upper right hand corner goes from the 1950's through to the early 1970's. And what it is, it is the penetration of jet aircraft into the airline. There is no technology that I can envision that would transform from flying in prop to flying in chair. It took 15 years to turn over the entire fleet. There is a time, I can't give you an exact timeline because it is going to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time the decision was made to stay with INM because it would have resulted in a substantial schedule delay to the Part 150 processes, all four of them to transition to AEDT at that time. But the commitment is that Part 150 is not a one-shot deal, it is a regulation that speaks to the noise exposure map; in other words, as you start implementing the program over the course of time and other changes to operations of the airport, the data underlying the map becomes old, too old to rely on to make decisions and you need to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that graphic in the upper right hand corner goes from the 1950's through to the early 1970's. And what it is, it is the penetration of jet aircraft into the airline. There is no technology that I can envision that would transform from flying in prop to flying in chair. It took 15 years to turn over the entire fleet. There is a time, I can't give you an exact timeline because it is going to depend on a lot of things involving
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings already done a full data pool. When I say "we", I mean, the Port Authority and their consultants with FAA supporting them and the majority of the structure of the model, the actual base case analysis and the development of the fleet mix was all underway by the time INM transitioned to AEDT. So we actually engaged in a series of internal discussions and at the time the decision was made to stay with INM because it would have resulted in a substantial schedule delay to the Part 150 processes, all four of them to transition to AEDT at that time. But the commitment is that Part 150 is not a one-shot deal, it is a regulation that speaks to the noise exposure map; in other words, as you start implementing the program over the course of time and other changes to operations of the airport, the data underlying the map becomes old, too old to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings different. UNIDENTIFIED SPEAKER: My question is about this technology, CLEEN technology. The newer jets coming off the timeline, what does the timeline look like for the planes coming off the assembly line to permeating to the dominant planes that you see going over the skies? MR. HILEMAN: That's an excellent question. That's the reason I showed that graphic in the upper right hand corner, it is just to maintain some level. So that graphic in the upper right hand corner goes from the 1950's through to the early 1970's. And what it is, it is the penetration of jet aircraft into the airline. There is no technology that I can envision that would transform from flying in prop to flying in chair. It took 15 years to turn over the entire fleet. There is a time, I can't give you an exact timeline because it is going to

	D 04		В 00
	Page 61		Page 63
1	Proceedings	1	Proceedings
2	do and the ability of their fleet.	2	have a smaller aircraft that's noisy being
3	MR. HUISMAN: I'm just going to ask	3	replaced by a larger aircraft that may be
4	everybody to use the microphone. These	4	the same noise that is louder. It's
5	microphones are a little bit different,	5	actually more complicated than that
6	you actually have to speak into the head	6	because one aircraft may be replacing
7	for best results.	7	one-and-a-half smaller aircrafts. So
8	MEMBER BROWN: Thank you. I'm going	8	there is a lot of complicating factors
9	to use my teacher voice today. So your	9	that have to be taken into account. I'm
10	office is improving technologies to reduce	10	not saying that's exactly
11	sound and that seems to some of us on the	11	MS. BECCE: Mary Becce. In your
12	ground to be	12	corporation, going to the aviation with
13	That's great if the size of the	13	Pratt Whitney, Rolls Royce, do they ever
14	airplane remains constant. But it almost	14	discuss with you what they would like to
15	sometimes seem like a zero gain, the sound	15	see in terms of economic incentives? Can
16	is reduced but the planes are getting	16	congress be of any help in providing
17	bigger. So my question is how are you	17	economic incentives to these corporations
18	factoring size of airplanes into the	18	to advance the technology that we're
19	technologies that you're implementing	19	talking about because your models are
20	because the A380s and that ilk more and	20	evaluating impact and noise after 2050 and
21	more of them are flying over us and so	21	I'm not getting any younger. And I'm just
22	they seem as noisy as maybe 20, 30 years	22	curious on a practical level can congress
23	ago, a plane you might see 20, 30 years	23	be of any help with economic incentives?
24	ago.	24	MR. HILEMAN: I would never tell
25	MR. HILEMAN: I'm not sure if this	25	congress what they should or should not
	Page 62		Page 64
	5		1 age 04
1		1	•
1 2	Proceedings	1 2	Proceedings
	Proceedings answers your question, but the noise		Proceedings spend their money on, definitely not in a
2	Proceedings	2	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN
2 3	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with	2	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable
2 3 4	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there	2 3 4	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a
2 3 4 5	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with	2 3 4 5	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft
2 3 4 5 6	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there	2 3 4 5 6	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has
2 3 4 5 6 7	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air	2 3 4 5 6 7	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this
2 3 4 5 6 7 8	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there	2 3 4 5 6 7 8	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has
2 3 4 5 6 7 8	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting	2 3 4 5 6 7 8 9	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those
2 3 4 5 6 7 8 9	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question.	2 3 4 5 6 7 8 9	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help
2 3 4 5 6 7 8 9 10	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger	2 3 4 5 6 7 8 9 10	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not
2 3 4 5 6 7 8 9 10 11	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger planes seem as noisy and noisier as planes	2 3 4 5 6 7 8 9 10 11	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not the total solution but noise of the
2 3 4 5 6 7 8 9 10 11 12	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger planes seem as noisy and noisier as planes that were flying over us before. So	2 3 4 5 6 7 8 9 10 11 12	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not the total solution but noise of the package.
2 3 4 5 6 7 8 9 10 11 12 13	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger planes seem as noisy and noisier as planes that were flying over us before. So before the and we keep hearing that	2 3 4 5 6 7 8 9 10 11 12 13	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not the total solution but noise of the package. MR. HUISMAN: We have one more
2 3 4 5 6 7 8 9 10 11 12 13 14	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger planes seem as noisy and noisier as planes that were flying over us before. So before the and we keep hearing that planes are getting quieter, but they're	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not the total solution but noise of the package. MR. HUISMAN: We have one more question and then the next presentation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger planes seem as noisy and noisier as planes that were flying over us before. So before the and we keep hearing that planes are getting quieter, but they're also getting bigger so the quiet if the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not the total solution but noise of the package. MR. HUISMAN: We have one more question and then the next presentation. MR. CURRY: Tom Curry, Senator
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger planes seem as noisy and noisier as planes that were flying over us before. So before the and we keep hearing that planes are getting quieter, but they're also getting bigger so the quiet if the planes that were flying 10, 15 years ago	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not the total solution but noise of the package. MR. HUISMAN: We have one more question and then the next presentation. MR. CURRY: Tom Curry, Senator Rice's office. Just talking about Bill
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger planes seem as noisy and noisier as planes that were flying over us before. So before the and we keep hearing that planes are getting quieter, but they're also getting bigger so the quiet if the planes that were flying 10, 15 years ago got quieter, we would have quieter skies.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not the total solution but noise of the package. MR. HUISMAN: We have one more question and then the next presentation. MR. CURRY: Tom Curry, Senator Rice's office. Just talking about Bill was talking about we would like to see the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger planes seem as noisy and noisier as planes that were flying over us before. So before the and we keep hearing that planes are getting quieter, but they're also getting bigger so the quiet if the planes that were flying 10, 15 years ago got quieter, we would have quieter skies. MR. HILEMAN: So the CLEEN program	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not the total solution but noise of the package. MR. HUISMAN: We have one more question and then the next presentation. MR. CURRY: Tom Curry, Senator Rice's office. Just talking about Bill was talking about we would like to see the new planes with new technology kind of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger planes seem as noisy and noisier as planes that were flying over us before. So before the and we keep hearing that planes are getting quieter, but they're also getting bigger so the quiet if the planes that were flying 10, 15 years ago got quieter, we would have quieter skies. MR. HILEMAN: So the CLEEN program is focused on reducing the noise, single aisle versus twin aisles, one aisle, versus two aisles. What you're pointing	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not the total solution but noise of the package. MR. HUISMAN: We have one more question and then the next presentation. MR. CURRY: Tom Curry, Senator Rice's office. Just talking about Bill was talking about we would like to see the new planes with new technology kind of permeate the market. Is there any way
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger planes seem as noisy and noisier as planes that were flying over us before. So before the and we keep hearing that planes are getting quieter, but they're also getting bigger so the quiet if the planes that were flying 10, 15 years ago got quieter, we would have quieter skies. MR. HILEMAN: So the CLEEN program is focused on reducing the noise, single aisle versus twin aisles, one aisle,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not the total solution but noise of the package. MR. HUISMAN: We have one more question and then the next presentation. MR. CURRY: Tom Curry, Senator Rice's office. Just talking about Bill was talking about we would like to see the new planes with new technology kind of permeate the market. Is there any way that the technology can be retrofitted to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger planes seem as noisy and noisier as planes that were flying over us before. So before the and we keep hearing that planes are getting quieter, but they're also getting bigger so the quiet if the planes that were flying 10, 15 years ago got quieter, we would have quieter skies. MR. HILEMAN: So the CLEEN program is focused on reducing the noise, single aisle versus twin aisles, one aisle, versus two aisles. What you're pointing out is it's very hard to do a baseline comparison. What I would say, it is not	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not the total solution but noise of the package. MR. HUISMAN: We have one more question and then the next presentation. MR. CURRY: Tom Curry, Senator Rice's office. Just talking about Bill was talking about we would like to see the new planes with new technology kind of permeate the market. Is there any way that the technology can be retrofitted to planes that are already in use? MR. HILEMAN: That's something we actually considered. In the CLEEN program
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings answers your question, but the noise metric here is based on the certification noise and the certification varies with aircraft take-off weight. So that there is an accounting for weight here in the certification metric. And so that there is a correction for that within our air units. Not quite sure if that is getting precisely to your question. MEMBER BROWN: Well, the larger planes seem as noisy and noisier as planes that were flying over us before. So before the and we keep hearing that planes are getting quieter, but they're also getting bigger so the quiet if the planes that were flying 10, 15 years ago got quieter, we would have quieter skies. MR. HILEMAN: So the CLEEN program is focused on reducing the noise, single aisle versus twin aisles, one aisle, versus two aisles. What you're pointing out is it's very hard to do a baseline	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings spend their money on, definitely not in a public forum. I would say that the CLEEN program has actually received considerable bipartisan orders over the years as a mechanism of dealing with aircraft emissions. It's one thing that has brought both parties together in this program. I'm assuming it is because those folks think it is something that can help deal with noise and emissions, it is not the total solution but noise of the package. MR. HUISMAN: We have one more question and then the next presentation. MR. CURRY: Tom Curry, Senator Rice's office. Just talking about Bill was talking about we would like to see the new planes with new technology kind of permeate the market. Is there any way that the technology can be retrofitted to planes that are already in use? MR. HILEMAN: That's something we

	Page 65		Page 67
1 Pro	oceedings	1	Proceedings
	etrofitted. We do have some of	2	the Northeast Corridor. We last updated
00414 80 10	ded. You can imagine that it	3	the NYCAR on April 11th on the Northeast
4 is rather di		4	Corridor so we thought we would give you a
5 It's	modit to	5	new update. We also updated the LaGuardia
	737, there is only so much	6	subcommittee I believe on May 31st as well
i ano a	er that wing. You can't go	7	on the Northeast Corridor on the FAA's
- p	m to put an engine under that	8	initiatives for this project. I am with
oxpoor and	vould hit the ground. So there	9	airport services and Bill Harden
iiiig as it i	things that can be retrofitted	10	(inaudible), who is running the computer
G., G. G. C. C.	nings cannot. And that is	11	is my colleague and we work with Ralph
	that we consider. Within CLEEN	12	Tamburra from the Port Authority as well
	our second five-year, we	13	on the Northeast Corridor and also our
p,	e working with Delta technical	14	industry partners.
5.515.5	they have a problem with the	15	So the purpose of the Northeast
	npany, they developed a spray	16	Corridor basically which encompasses
1 0009 00	out on the fan blades to make	17	Washington D.C. to Boston along the
	cient. It doesn't help with	18	Atlantic coast is to improve execution of
	t does reduce fuel burn.	19	today's operations, try to complete all
-	do look at things that can be	20	scheduled operations that the airlines
	That's a hard thing to do	21	have scheduled and operate on time with
	f the fact that you just have	22	the ability and also improve critical
	gs get set by aircraft through	23	operations such as weather conditions.
	process. And it's just really	24	Our time frame is October 2017 to December
	in and rip out this and put in	25	2021. And part one, one example of our
	Page 66		Page 68
1 Prod	ceedings	1	Proceedings
2 this other ted	chnology, it's easier to do	2	critical one phase of our critical
3 it from a clea	an sheet.	3	weather example, Brett's going to go over
	R BROWN: Thank you very much.	4	which would be the Teterboro/White Plains
	nelpful. We're going to get	5	escape routes, the climb escape routes
	oint so that you will have them.	6	that's critical to this and then we will
	nd that you have further	7	go into more details later down.
8 questions if	you forward them to Warren or	8	So what is included in the Northeast
_	et them to Steven Jones to	9	Corridor scope? We have four initiatives,
	nat any other questions that	10	we have airports, airspace procedures,
	ave are answered. We are	11	tactical initiatives, tools and
_	t this point to the update on	12	technology. Airspace and procedures are
	st Corridor. And while that's	13	pretty much the one I'm going to focus on
	ou have anything to setup or	14	today. We have other initiatives in there
15		15	that we will not be briefing on today.
	at's being done, members,	16	They don't involve the community on a lot
	your hand high so we can get	17	of those they're more within the FAA,
18 a count.		18	internal FAA. So the first one we're
	PPENHAUER: I think quorum is	19	going to update you on is the offshore
50 percent p		20	airspace redesign, which is predominantly
	AUNSTEIN: We don't have	21	over the ocean and is above 18,000 feet
-	lus one. We're ten short.	22	to improve airspace efficiency in a
	O'CONNOR: I'm Wendy O'Connor	23	constrained offshore airspace. We have a
	My briefing is not as	24	lot of aircraft that flies from oversees,
25 scientific as	James. I will update you on	25	as you know, it helps us get that aircraft

	Page 69		Page 71
1	Proceedings	1	Proceedings
2	in and out of that particular area. The	2	is subject to some configuration at JFK.
3	design was completed on March 2018 and the	3	It comes with benefits and full support
4	implementation is no later than	4	dispersion of runway 13 departure uses
5	December 2019.	5	already published procedures. It does
6	We've also been working on the	6	reduce average departure delay reducing
7	Northeast Corridor initiative of the east	7	emissions and providing benefit to the
8	coast high altitude routes. This is to	8	traveling public. This one, like I said,
9	help basically the whole mass across the	9	is dependent on JFK's configuration. We
10	United States. This endeavor it's	10	want to see greater use of this as it also
11	basically combining up the southern	11	disperses the noise, modifies the 22
12	portion of it with the Florida and the	12	missed approach to deconflict with Newark
13	Atlantic coast to measure these together a	13	runway GPS approach. For those of you who
14	little bit better, to separate the routes	14	are not aware, missed approach is an
15	a little bit better, to make it more	15	approach that an aircraft makes that he
16	efficient and predictable along the	16	cannot complete meaning he cannot land.
17	Atlantic coast. Those are predominantly	17	There is a confliction between those
18	above. Those are all above 18,000 feet.	18	aircrafts landing number 22 to LaGuardia
19	This just gives another example of how	19	and the potential of RY 29 and Newark.
20	we're combining up the southern portion	20	This would allow Newark to operate more
21	and the northern portion on the route	21	efficiently, but we have a little work to
22	segregations and making it more efficient	22	do on this one to try to resolve it, we
23	in conversions of the routes in our	23	have not resolved this particular issue.
24	airspace.	24	Okay. I just want to say thank you,
25	MR. TAMBURRA: Thanks, Wendy. Ralph	25	we're going to continue to do those
1	Page 70 Proceedings	1	Page 72 Proceedings
2	Tamburra. This is one of the first	2	updates. And I guess we will take any
3	initiatives we discussed. What it is, is	3	questions.
4	an escape route as we would call it for	4	MR. HUISMAN: Any questions?
5	primarily the Teterboro/White Plains	5	MS. CARROLL: Susan Carroll
6	departures. Why we pick those aircrafts,	6	representing Queens Borough President
7	they are typically corporate aircrafts	7	Melinda Katz. I have a question. I see
8	they have high performance capabilities	8	that you're encouraging wider use using
9	and it is a little hard to see on the	9	the three simultaneously. But I was
10	side. But basically, we would use	10	reading the Tennis documents that was
11	existing routes to take up to New York	11	signed on October 2, 2012. And in those
12	City up to higher altitudes and turn	12	documents from six years ago, it stated
13	around their course. How this benefits	13	that it was always the operate that was
14	the New York operation particularly during	14	always the standard operating procedure to
15	severe weather season like we're	15	use those three climbs when JFK is on a
16	experiencing tonight, it reduces the	16	certain runway integration. That used to
17	number of aircraft on certain routes which	17	be conventional climbs and now it's
18	would allow the major airports to run more	18	Tennis. So if this was always the
19	efficiency and run closer to on time. We	19	procedure, why is there pushing out why
20	did test this, one flight was tested, some	20	hasn't it been more widely used? Why
21	modification was necessary, which will be	21	you're saying you want to increase use?
22	done.	22	MR. TAMBURRA: You are correct in
23	The second one that we're going to	23	that statement. There are many factors
24	discuss tonight is the LaGuardia 13	24	why one climb would be chosen over the
	departures use Tennis Goldman and Nathans	25	other. On a day like today it would be
25	departures use Terrilis Goldman and Mathans		orior. On a day into today it would be

	Page 73		Page 75
1	Proceedings	1	Proceedings
2	normal procedure, maybe a three climb	2	the procedure was.
3	procedure. But if there is thunderstorms	3	MS. W. O'CONNOR: Like I said,
4	blocking one of those routes and there is	4	there's a rhyme and reason why we use
5	air traffic, we would actually change the	5	particular routes which we've alluded to
6	normal procedure and use a different one.	6	or already talked about which would be
7	I'm not saying that was the cause of the	7	weather conditions or it would be wind
8	reduction of the three climb. There has	8	conditions or the airport configurations
9	been a refocus of trying to use this as	9	to get the aircraft off in arrival state.
10	much as possible understanding the noise	10	MR. BRAUNSTEIN: Any historical
11	benefits.	11	data? I just want to know if it's
12	UNIDENTIFIED SPEAKER: Part of the	12	historically stayed the same as the
13	drive and using the three together more	13	Whitestone Climb or if it's continued. It
14	often is because of the change in the	14	seems to me the Whitestone Climb is being
15	rules that air traffic controllers have	15	more and more
16	that allows them to depart two aircrafts	16	MR. TAMBURRA: I've been involved in
17	basically closer together because they	17	aviation in New York since 1982.
18	diverge within two miles.	18	Whitestone Climb has been the primary
19	MS. CARROLL: I guess I was just	19	climb off the water for all those years.
20	confused because that's how it was done	20	It varies at times based on winds.
21	before. So I understand what you're	21	Typically in New York summertime winds are
22	saying about thunderstorms and I	22	south and southwest that leads to the
23	understand about CLEEN air, but there are	23	configurations which forces 13 departure.
24	times I've seen Tennis being used by	24	We do not use runway 22 for departure. We
25	itself.	25	use it very infrequently because of that
	Dava 74		
			Page 76
	Page 74		Page 76
1	Proceedings	1	Proceedings
2	Proceedings MR. BRAUNSTEIN: Is there a set	2	Proceedings it causes us to use configurations like we
2 3	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate	2 3	Proceedings it causes us to use configurations like we land runway four to part 13 in the
2 3 4	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know	2 3 4	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13
2 3 4 5	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems	2 3 4 5	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or
2 3 4 5 6	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from	2 3 4 5 6	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest.
2 3 4 5 6 7	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with	2 3 4 5 6 7	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by
2 3 4 5 6 7 8	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three	2 3 4 5 6 7 8	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to
2 3 4 5 6 7 8 9	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here	2 3 4 5 6 7 8 9	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account
2 3 4 5 6 7 8 9	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage	2 3 4 5 6 7 8 9	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the
2 3 4 5 6 7 8 9 10	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target?	2 3 4 5 6 7 8 9 10	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb.
2 3 4 5 6 7 8 9 10 11	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily.	2 3 4 5 6 7 8 9 10 11	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's
2 3 4 5 6 7 8 9 10 11 12 13	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily. I would have to look at the data to see	2 3 4 5 6 7 8 9 10 11 12	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's the primary climb and I don't have the
2 3 4 5 6 7 8 9 10 11 12 13 14	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily. I would have to look at the data to see for the last three weeks how the unit was	2 3 4 5 6 7 8 9 10 11 12 13 14	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's the primary climb and I don't have the data to say, but it just seems to me that
2 3 4 5 6 7 8 9 10 11 12 13 14	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily. I would have to look at the data to see for the last three weeks how the unit was used and why it was used to give you a	2 3 4 5 6 7 8 9 10 11 12 13 14	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's the primary climb and I don't have the data to say, but it just seems to me that especially after three weeks it just seems
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily. I would have to look at the data to see for the last three weeks how the unit was used and why it was used to give you a better answer. We don't have a normal	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's the primary climb and I don't have the data to say, but it just seems to me that especially after three weeks it just seems like it's being used more and more. And
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily. I would have to look at the data to see for the last three weeks how the unit was used and why it was used to give you a better answer. We don't have a normal percentage on other factors that go in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's the primary climb and I don't have the data to say, but it just seems to me that especially after three weeks it just seems like it's being used more and more. And as a representative for my area, I need to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily. I would have to look at the data to see for the last three weeks how the unit was used and why it was used to give you a better answer. We don't have a normal percentage on other factors that go in there that we kind of alluded to which	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's the primary climb and I don't have the data to say, but it just seems to me that especially after three weeks it just seems like it's being used more and more. And as a representative for my area, I need to do my due diligence and I will followup to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily. I would have to look at the data to see for the last three weeks how the unit was used and why it was used to give you a better answer. We don't have a normal percentage on other factors that go in there that we kind of alluded to which would be weather, winds, so forth.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's the primary climb and I don't have the data to say, but it just seems to me that especially after three weeks it just seems like it's being used more and more. And as a representative for my area, I need to do my due diligence and I will followup to see if there is historical data of how
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily. I would have to look at the data to see for the last three weeks how the unit was used and why it was used to give you a better answer. We don't have a normal percentage on other factors that go in there that we kind of alluded to which would be weather, winds, so forth. MR. BRAUNSTEIN: Because I mean we	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's the primary climb and I don't have the data to say, but it just seems to me that especially after three weeks it just seems like it's being used more and more. And as a representative for my area, I need to do my due diligence and I will followup to see if there is historical data of how frequently it has been used. And I'm
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily. I would have to look at the data to see for the last three weeks how the unit was used and why it was used to give you a better answer. We don't have a normal percentage on other factors that go in there that we kind of alluded to which would be weather, winds, so forth. MR. BRAUNSTEIN: Because I mean we were here a few weeks ago the last meeting	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's the primary climb and I don't have the data to say, but it just seems to me that especially after three weeks it just seems like it's being used more and more. And as a representative for my area, I need to do my due diligence and I will followup to see if there is historical data of how frequently it has been used. And I'm curious to see if it's consistent or if
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily. I would have to look at the data to see for the last three weeks how the unit was used and why it was used to give you a better answer. We don't have a normal percentage on other factors that go in there that we kind of alluded to which would be weather, winds, so forth. MR. BRAUNSTEIN: Because I mean we were here a few weeks ago the last meeting or two meetings before that where there	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's the primary climb and I don't have the data to say, but it just seems to me that especially after three weeks it just seems like it's being used more and more. And as a representative for my area, I need to do my due diligence and I will followup to see if there is historical data of how frequently it has been used. And I'm curious to see if it's consistent or if it's being used more frequently.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily. I would have to look at the data to see for the last three weeks how the unit was used and why it was used to give you a better answer. We don't have a normal percentage on other factors that go in there that we kind of alluded to which would be weather, winds, so forth. MR. BRAUNSTEIN: Because I mean we were here a few weeks ago the last meeting or two meetings before that where there was a breakdown. You used Tennis ten	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's the primary climb and I don't have the data to say, but it just seems to me that especially after three weeks it just seems like it's being used more and more. And as a representative for my area, I need to do my due diligence and I will followup to see if there is historical data of how frequently it has been used. And I'm curious to see if it's consistent or if it's being used more frequently. MR. TAMBURRA: Again, the only thing
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings MR. BRAUNSTEIN: Is there a set percentage of the time that you anticipate using the Whitestone Climb that you know of, can you give me that number? It seems to me like the last few weeks, aside from the last couple of hours we had with Tennis, it seems like every day for three weeks maybe we get a couple of hours here and there. Is there, like, a percentage of the time where you target? MS. W. O'CONNOR: Not necessarily. I would have to look at the data to see for the last three weeks how the unit was used and why it was used to give you a better answer. We don't have a normal percentage on other factors that go in there that we kind of alluded to which would be weather, winds, so forth. MR. BRAUNSTEIN: Because I mean we were here a few weeks ago the last meeting or two meetings before that where there	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings it causes us to use configurations like we land runway four to part 13 in the northeast, we land runway 22 to part 13 when the winds are out to the south or even the southwest. The Whitestone is driven more by JFK's configurations. You have to actually take the two of them into account to see why the Whitestone, but the Whitestone is the most used climb. MR. BRAUNSTEIN: I understand it's the primary climb and I don't have the data to say, but it just seems to me that especially after three weeks it just seems like it's being used more and more. And as a representative for my area, I need to do my due diligence and I will followup to see if there is historical data of how frequently it has been used. And I'm curious to see if it's consistent or if it's being used more frequently.

	Page 77		Page 79
1	Proceedings	1	Proceedings
2	catch a break after tonight because as the	2	more experimental. We're using that to
3	thunderstorms roll through, the winds will	3	think about what could be done with
4	probably be out in the northwest, which	4	procedures. And so we've used that with
5	typically happens. That's another point	5	an MOU at Massport to think about what can
6	which I should make. Typically,	6	be done about procedures with the existing
7	fall/winter months you don't see runway 13	7	fleet to reduce noise. And one of the
8	departures often. It's typically	8	things we're currently looking at is
9	spring/summer operation. So that's one	9	dispersion. Now, remind you that this
10	thing.	10	research may turn out to be it's one of
11	MR. CURRY: Tom Curry from	11	the things we're thinking about and I have
12	Congressman Rice's office. I waited for	12	no idea what other research were had. But
13	you guys to make this presentation, but	13	it's something that we're currently
14	this may kind of get into this as well,	14	looking at.
15	you spoke a lot about how technology was	15	MR. SCHREIBER: First, I want to
16	going to be driving how we're going to be	16	thank everyone for the preparation. I
17	reducing noise for airplanes. And we	17	just want to say one thing before I hand
18	appreciate the research that's been made,	18	this over to Barbara. She has more
19	but throughout that time, it's also that	19	information on this. Once again,
20	the frequency of planes flying over the	20	unfortunately, we don't have a quorum.
21	communities have increased. I mean, it's	21	And that's the problem constantly. And we
22	not just one big fly annoying you, it's a	22	work really hard to attain quorum, we have
23	hundred little flies annoying you. That's	23	interesting presentation. This is
24	a lot of complaints I received for my	24	important stuff, this is
25	district, that's number one.	25	I mean information is important.
	diction, that a frame of one.		
	Page 78		Page 80
	· ·		1 age 00
1	Proceedings	1	Proceedings
1 2	_	1 2	
	Proceedings		Proceedings
2	Proceedings Number two, the district that we	2	Proceedings When you have information, you can decide
2 3	Proceedings Number two, the district that we represent is on the south shore of Long	2 3	Proceedings When you have information, you can decide on a cause of action and you can decide on
2 3 4	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK.	2 3 4	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The
2 3 4 5	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is	2 3 4 5	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members
2 3 4 5 6	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal	2 3 4 5 6	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out
2 3 4 5 6 7	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know	2 3 4 5 6 7	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We
2 3 4 5 6 7 8	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples,	2 3 4 5 6 7 8	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not
2 3 4 5 6 7 8 9	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at	2 3 4 5 6 7 8 9 10	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same
2 3 4 5 6 7 8 9	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues?	2 3 4 5 6 7 8 9 10 11	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that
2 3 4 5 6 7 8 9 10 11 12 13	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do	2 3 4 5 6 7 8 9 10 11 12 13	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have
2 3 4 5 6 7 8 9 10 11	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do not have any studies from dispersal of the	2 3 4 5 6 7 8 9 10 11 12 13	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have something that will help. I'm going to
2 3 4 5 6 7 8 9 10 11 12 13	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do not have any studies from dispersal of the routes and so forth. And that aspect from	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have something that will help. I'm going to turn it over to Barbara to explain some of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do not have any studies from dispersal of the routes and so forth. And that aspect from our perspective I'm not sure for the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have something that will help. I'm going to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do not have any studies from dispersal of the routes and so forth. And that aspect from our perspective I'm not sure for the noise emissions if you had something.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have something that will help. I'm going to turn it over to Barbara to explain some of the steps that we'd like to consider taking.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do not have any studies from dispersal of the routes and so forth. And that aspect from our perspective I'm not sure for the noise emissions if you had something. MR. HILEMAN: So what I'm going to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have something that will help. I'm going to turn it over to Barbara to explain some of the steps that we'd like to consider taking. MEMBER BROWN: The two items under
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do not have any studies from dispersal of the routes and so forth. And that aspect from our perspective I'm not sure for the noise emissions if you had something. MR. HILEMAN: So what I'm going to decide is research. Sometimes when you do	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have something that will help. I'm going to turn it over to Barbara to explain some of the steps that we'd like to consider taking. MEMBER BROWN: The two items under item three we have two applications for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do not have any studies from dispersal of the routes and so forth. And that aspect from our perspective I'm not sure for the noise emissions if you had something. MR. HILEMAN: So what I'm going to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have something that will help. I'm going to turn it over to Barbara to explain some of the steps that we'd like to consider taking. MEMBER BROWN: The two items under
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do not have any studies from dispersal of the routes and so forth. And that aspect from our perspective I'm not sure for the noise emissions if you had something. MR. HILEMAN: So what I'm going to decide is research. Sometimes when you do research, you find out that there is nothing there. So remember that but we've	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have something that will help. I'm going to turn it over to Barbara to explain some of the steps that we'd like to consider taking. MEMBER BROWN: The two items under item three we have two applications for membership JFK IBID, JFK and the Greater Flushing Chamber of Commerce. Those two
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do not have any studies from dispersal of the routes and so forth. And that aspect from our perspective I'm not sure for the noise emissions if you had something. MR. HILEMAN: So what I'm going to decide is research. Sometimes when you do research, you find out that there is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have something that will help. I'm going to turn it over to Barbara to explain some of the steps that we'd like to consider taking. MEMBER BROWN: The two items under item three we have two applications for membership JFK IBID, JFK and the Greater
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do not have any studies from dispersal of the routes and so forth. And that aspect from our perspective I'm not sure for the noise emissions if you had something. MR. HILEMAN: So what I'm going to decide is research. Sometimes when you do research, you find out that there is nothing there. So remember that but we've been working with MIT for the last few years to put together a conceptual noise	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have something that will help. I'm going to turn it over to Barbara to explain some of the steps that we'd like to consider taking. MEMBER BROWN: The two items under item three we have two applications for membership JFK IBID, JFK and the Greater Flushing Chamber of Commerce. Those two entities applied for membership over nine months ago. So, in other words, we could
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do not have any studies from dispersal of the routes and so forth. And that aspect from our perspective I'm not sure for the noise emissions if you had something. MR. HILEMAN: So what I'm going to decide is research. Sometimes when you do research, you find out that there is nothing there. So remember that but we've been working with MIT for the last few years to put together a conceptual noise evaluation, something that accounts for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have something that will help. I'm going to turn it over to Barbara to explain some of the steps that we'd like to consider taking. MEMBER BROWN: The two items under item three we have two applications for membership JFK IBID, JFK and the Greater Flushing Chamber of Commerce. Those two entities applied for membership over nine months ago. So, in other words, we could have had a couple of babies here and these
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings Number two, the district that we represent is on the south shore of Long Island, so it's mainly affected by JFK. Can anyone speak to how the FAA is studying a more wide a wider dispersal of flights over the area? And I know every little move you make at JFK ripples, I know it affects LaGuardia and moves at LaGuardia will affect Stewart or Teterboro or whatever. But have there been studies that can speak to those issues? MS. W. O'CONNOR: So currently we do not have any studies from dispersal of the routes and so forth. And that aspect from our perspective I'm not sure for the noise emissions if you had something. MR. HILEMAN: So what I'm going to decide is research. Sometimes when you do research, you find out that there is nothing there. So remember that but we've been working with MIT for the last few years to put together a conceptual noise	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings When you have information, you can decide on a cause of action and you can decide on how to mitigate some of the noise. The last LaGuardia meeting we were two members short. We made phone calls, we sent out digital Evites. We had people RSVP. We could not have done more and we did not obtain a quorum. And tonight the same problem. We had a couple of items that should have been voted on and we're just not able to do that and it's really disappointing and we do think we have something that will help. I'm going to turn it over to Barbara to explain some of the steps that we'd like to consider taking. MEMBER BROWN: The two items under item three we have two applications for membership JFK IBID, JFK and the Greater Flushing Chamber of Commerce. Those two entities applied for membership over nine months ago. So, in other words, we could

	Page 81		Page 83
1	Proceedings	1	Proceedings
2	decision. So the coordinating committee	2	attend meetings? How many of you as
3	is at our next meeting and we do meet in	3	members would be in favor of that? So
4		4	
5	between. We have a lot of meetings in	5	that's a lot of hands. Anybody here who
6	between these roundtable meetings. We	6	would feel strongly against that?
7	will be reviewing that and we may		MS. KARTERON: Philippa Karteron,
8	be we'll see, but we may be invoking a	7	JFK. I have a question. The suspension
	section constitution which will allow	8	is that where it includes the absence, how
9	us to make a decision about those entities	9	is that going to be since many of us
10	because they have been waiting a long	10	attend other there is something called
11	time, they filed all their papers and	11	an excused absence so how is that going to
12	they're still waiting for us to get back	12	be incorporated?
13	to them.	13	MEMBER BROWN: We said two in a row.
14	The second item, the non-attendance	14	The other thing, as an entity if someone
15	of members recommendations for handling.	15	who can't attend should send an alternate
16	We discussed this at the last NYCAR	16	so that they we're not here suffering
17	meeting which was back in April. Each of	17	because there are no alternates or regular
18	our airport committee meetings at each	18	members here. And there are some entities
19	of our airport committee meeting we had	19	who have not attended any meetings so
20	discussions. And generally the consensus	20	those will be the ones whose votes are
21	of the people who were attending those	21	suspended. Any other questions?
22	meetings all seemed to be in agreement.	22	UNIDENTIFIED SPEAKER: Do you need a
23	The recommendation is that those entities	23	quorum to change the rules that way?
24	that have not attended two meetings in a	24	MEMBER BROWN: Technically if the
25	row have their membership suspended and	25	decision is here, yes, we need a quorum.
	Page 82		Page 84
1	•	1	-
1 2	Proceedings	1 2	Proceedings
	Proceedings therefore that would lower the requirement		Proceedings The coordinating committee is going to
2	Proceedings therefore that would lower the requirement for a quorum. And when	2	Proceedings The coordinating committee is going to meet, we will discuss this and make a
2 3	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at	2 3	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward
2 3 4	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide	2 3 4	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here.
2 3 4 5	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate	2 3 4 5	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with
2 3 4 5 6	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their	2 3 4 5 6	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here.
2 3 4 5 6 7	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in	2 3 4 5 6 7	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes.
2 3 4 5 6 7 8	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's	2 3 4 5 6 7 8	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words,
2 3 4 5 6 7 8 9	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for	2 3 4 5 6 7 8 9	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws?
2 3 4 5 6 7 8 9	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the	2 3 4 5 6 7 8 9	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws.
2 3 4 5 6 7 8 9 10	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know	2 3 4 5 6 7 8 9 10	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an
2 3 4 5 6 7 8 9 10 11	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know that people change over time with	2 3 4 5 6 7 8 9 10 11	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an option to amend the bylaws, the executor?
2 3 4 5 6 7 8 9 10 11 12	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know that people change over time with community boards and other agencies the	2 3 4 5 6 7 8 9 10 11 12 13	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an option to amend the bylaws, the executor? MR. SCHREIBER: Yes, but we need a
2 3 4 5 6 7 8 9 10 11 12 13	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know that people change over time with community boards and other agencies the vote belongs to the community board and to	2 3 4 5 6 7 8 9 10 11 12 13 14	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an option to amend the bylaws, the executor? MR. SCHREIBER: Yes, but we need a quorum. So, again, we're right back at
2 3 4 5 6 7 8 9 10 11 12 13 14	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know that people change over time with community boards and other agencies the vote belongs to the community board and to the agency. So we don't want to deny	2 3 4 5 6 7 8 9 10 11 12 13 14	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an option to amend the bylaws, the executor? MR. SCHREIBER: Yes, but we need a quorum. So, again, we're right back at the same place.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know that people change over time with community boards and other agencies the vote belongs to the community board and to the agency. So we don't want to deny entity's membership, but we are we	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an option to amend the bylaws, the executor? MR. SCHREIBER: Yes, but we need a quorum. So, again, we're right back at the same place. MEMBER BROWN: But the coordinating
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know that people change over time with community boards and other agencies the vote belongs to the community board and to the agency. So we don't want to deny	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an option to amend the bylaws, the executor? MR. SCHREIBER: Yes, but we need a quorum. So, again, we're right back at the same place. MEMBER BROWN: But the coordinating committee can make decisions between
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know that people change over time with community boards and other agencies the vote belongs to the community board and to the agency. So we don't want to deny entity's membership, but we are we can't continue to move this way because we do have actionable items that we need to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an option to amend the bylaws, the executor? MR. SCHREIBER: Yes, but we need a quorum. So, again, we're right back at the same place. MEMBER BROWN: But the coordinating committee can make decisions between meetings if there is a if there are
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know that people change over time with community boards and other agencies the vote belongs to the community board and to the agency. So we don't want to deny entity's membership, but we are we can't continue to move this way because we do have actionable items that we need to be able to vote on. So I'm going to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an option to amend the bylaws, the executor? MR. SCHREIBER: Yes, but we need a quorum. So, again, we're right back at the same place. MEMBER BROWN: But the coordinating committee can make decisions between meetings if there is a if there are time sensitive issues. There is a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know that people change over time with community boards and other agencies the vote belongs to the community board and to the agency. So we don't want to deny entity's membership, but we are we can't continue to move this way because we do have actionable items that we need to be able to vote on. So I'm going to One question that I have here, just	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an option to amend the bylaws, the executor? MR. SCHREIBER: Yes, but we need a quorum. So, again, we're right back at the same place. MEMBER BROWN: But the coordinating committee can make decisions between meetings if there is a if there are time sensitive issues. There is a provision in the bylaws for that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know that people change over time with community boards and other agencies the vote belongs to the community board and to the agency. So we don't want to deny entity's membership, but we are we can't continue to move this way because we do have actionable items that we need to be able to vote on. So I'm going to One question that I have here, just a straw poll because we can't vote. How	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an option to amend the bylaws, the executor? MR. SCHREIBER: Yes, but we need a quorum. So, again, we're right back at the same place. MEMBER BROWN: But the coordinating committee can make decisions between meetings if there is a if there are time sensitive issues. There is a provision in the bylaws for that. MR. SCHREIBER: And the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know that people change over time with community boards and other agencies the vote belongs to the community board and to the agency. So we don't want to deny entity's membership, but we are we can't continue to move this way because we do have actionable items that we need to be able to vote on. So I'm going to One question that I have here, just a straw poll because we can't vote. How many of you here, by a show of hands,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an option to amend the bylaws, the executor? MR. SCHREIBER: Yes, but we need a quorum. So, again, we're right back at the same place. MEMBER BROWN: But the coordinating committee can make decisions between meetings if there is a if there are time sensitive issues. There is a provision in the bylaws for that. MR. SCHREIBER: And the Just to expand a little bit on what
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings therefore that would lower the requirement for a quorum. And when We're saying suspended because at the point at which those entities decide that they do want to come and participate in meetings and vote, at that point their votes will their membership will be in order. So we're not taking any entity's vote away simply because the vote for instance, for our elected official the vote goes to the district. And we know that people change over time with community boards and other agencies the vote belongs to the community board and to the agency. So we don't want to deny entity's membership, but we are we can't continue to move this way because we do have actionable items that we need to be able to vote on. So I'm going to One question that I have here, just a straw poll because we can't vote. How	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Proceedings The coordinating committee is going to meet, we will discuss this and make a decision on how we will move forward because it is becoming a catch-22 here. MR. WILLIAMS: Do you operate with the quorum or bylaws? MEMBER BROWN: Yes. MR. WILLIAMS: In other words, constitution or bylaws? MR. SCHREIBER: Bylaws. MR. WILLIAMS: Does it give you an option to amend the bylaws, the executor? MR. SCHREIBER: Yes, but we need a quorum. So, again, we're right back at the same place. MEMBER BROWN: But the coordinating committee can make decisions between meetings if there is a if there are time sensitive issues. There is a provision in the bylaws for that. MR. SCHREIBER: And the

	Page 85		Page 87
1 Proce	eedings	1	Proceedings
	here are some	2	was made.
3 members th	nere are some community boards	3	UNIDENTIFIED SPEAKER: Is this
	er ever attended a meeting	4	retroactive?
	LaGuardia meeting or a	5	MR. CURRY: The policy can't be
	neeting and just have never	6	retroactive until it's enacted. I don't
	re and they've been told by	7	know if I jumped the gun here.
	president that every community	8	MEMBER BROWN: Final question on
	in Queens is supposed to be	9	this so we can move forward.
10 a member of	this body and they have never,	10	UNIDENTIFIED SPEAKER: So how many
11 ever attended		11	entities have missed two consecutive
12 UNIDEN	TIFIED SPEAKER: And have you	12	meetings?
	prough president?	13	MEMBER BROWN: I don't have that
	IREIBER: Yes, we have and	14	information in front of me, but we do have
they have nev	ver attended meetings so the	15	this. So we keep a very careful
16 bylaws they d	o not give us the authority	16	attendance record on both committees and
	embers, members could be	17	we know who is.
	ause for cause by the	18	MR. EVANS: Can I add a point of
	But, again but that would	19	clarification to your point of how many
20 require a quoi	rum so it's kind of a	20	JFK, we always make quorum. At this
21 It's a prob	lem. So that's why we	21	meeting usually LaGuardia side does not
	good way to go about it and	22	put up enough members to make quorum but
	in obtain a quorum and move	23	we
24 forward.	·	24	UNIDENTIFIED SPEAKER: That wasn't
25 MR. CUR	RRY: Just for clarification	25	my
	Page 86		Page 88
1 Proce	eedings	1	Proceedings
	lure that would suspend	2	MR. EVANS: All I'm just saying is
	ter two meetings, the member	3	that just for a point of understanding the
	ould actually be sent a	4	JFK committee meets quorum every time we
	ter from the board so they	5	meet and we meet quorum at this venue. So
<u> </u>	ney miss the second meeting	6	if you're thinking about how dire this
	ship is suspended at that	7	matter of attendance is it's more or less
	to address Philippa's	8	a LaGuardia problem.
	used absence. Of course	9	MR. SCHREIBER: That's not true,
-	oing to miss a meeting here	10	Patrick.
	inderstand, everyone's got	11	MR. EVANS: Yes, it is.
	niss two in a row you get a	12	MR. SCHREIBER: I have to answer.
	ne third meeting your	13	This is one roundtable, this is not two
	s suspended your vote is	14	separate roundtables. There is not a
	nd that will subtract the	15	roundtable for JFK, there is not a
	the quorum which makes it much	16	roundtable for LaGuardia. We have gone
17 easier to do b	•	17	through this argument four years ago. We
	PPENHAUER: Just for	18	went through this argument for two years
	re you saying two in a row	19	and it is one roundtable.
or just two?	, , ,	20	MR. CURRY: I agree, Warren.
	RRY: Two in a row. We don't	21	MR. HUISMAN: We have a section for
	it too difficult, Larry. Two	22	the public.
	•	23	MEMBER BROWN: Two things I want the
		24	_
		25	letter, an e-mail to Senators Gillibrand
23 consecutive n 24 There was so	it too difficult, Larry. Two neetings I think is fair. me discussion at some of the was the consensus I think	23 24	MEMBER BROWN: Two things I wan membership to know, one, we did send a

	Page 89		Page 91
1	Proceedings	1	Proceedings
2	and Chuck Schumer regarding the	2	does this plane and this path have to be
3	reauthorization bill with our opinion and	3	right over this town and incessantly
4	supporting basically what the congress has	4	punish this town with these planes.
5	put forth so we wanted you to know that.	5	Without the acronyms, I just want an
6	And secondly, at the last committee	6	answer.
7	meeting we did decide on to try to	7	MR. TAMBURRA: Ralph Tamburra to
8	regularize when we have meetings we came	8	answer your questions, operational
9	up with the following schedule so you	9	decisions are made. Again, I know some
10	should jot this down, the NYCAR the	10	people won't believe in this, but it is
11	full roundtable meetings will be in	11	based on runway availability. We do a
12	January, April, June and October. And	12	number of construction projects overnight
13	we're talking about the fourth Wednesdays	13	because we have to. We have to maintain
14	of those months. So the fourth Wednesday	14	
15	of January, April, June and October. So	15	the runways to be safe so that aircrafts can land there. It is also based on wind.
16	• • •	16	
17	our next meeting will not be until January	17	Unfortunately, the winds in the last
18	for the full roundtable. But we felt that	18	few days in particular have been out of
19	if everybody knows when we will be meeting	19	the south, southeast, a couple of days
20	it might be easier for people to respond	20	ago, they were out of the northeast. So,
20	properly by attending meetings. We do	20	you know, we didn't land over we didn't
	have a JFK airport committee meeting this		fly over Roslyn Heights or East Hills. So
22	Monday so those of you who are on the JFK	22 23	there is rotation of runways, but, again,
23	airport committee please put that on your	_	a similar problem with LaGuardia, a
24 25	calendar if you haven't done so because we	24 25	typical weather pattern for this time of
25	do. As Patrick said, we need you for a	25	the year especially JFK as they get to Sea
	Page 90		Page 92
1			
	Proceedings	1	Proceedings
2	Proceedings guorum. We're going to open the floor to	1 2	Proceedings Bridge. And unfortunately it doesn't
	quorum. We're going to open the floor to		Bridge. And unfortunately it doesn't
2		2	Bridge. And unfortunately it doesn't always workout where we can change.
2 3	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from	2 3	Bridge. And unfortunately it doesn't
2 3 4	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I	2 3 4	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does.
2 3 4 5	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time	2 3 4 5	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times.
2 3 4 5 6	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of	2 3 4 5 6	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing
2 3 4 5 6 7	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's	2 3 4 5 6 7	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So
2 3 4 5 6 7 8	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of	2 3 4 5 6 7 8	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing
2 3 4 5 6 7 8 9	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole	2 3 4 5 6 7 8 9	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK
2 3 4 5 6 7 8 9	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102	2 3 4 5 6 7 8 9	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it
2 3 4 5 6 7 8 9 10	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here	2 3 4 5 6 7 8 9 10	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods
2 3 4 5 6 7 8 9 10 11	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102 fever, so I've been up all night. I've	2 3 4 5 6 7 8 9 10 11	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods though, there are no other options, you
2 3 4 5 6 7 8 9 10 11 12	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102 fever, so I've been up all night. I've listened to airplanes from 4:30 in the	2 3 4 5 6 7 8 9 10 11 12	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods though, there are no other options, you have to land into the wind at certain
2 3 4 5 6 7 8 9 10 11 12 13	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102 fever, so I've been up all night. I've listened to airplanes from 4:30 in the morning until present. I went to sleep at	2 3 4 5 6 7 8 9 10 11 12 13	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods though, there are no other options, you have to land into the wind at certain velocities and with the weather conditions
2 3 4 5 6 7 8 9 10 11 12 13 14 15	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102 fever, so I've been up all night. I've listened to airplanes from 4:30 in the morning until present. I went to sleep at one last night, two airplanes. I woke up	2 3 4 5 6 7 8 9 10 11 12 13 14	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods though, there are no other options, you have to land into the wind at certain velocities and with the weather conditions we've had that's our only option.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102 fever, so I've been up all night. I've listened to airplanes from 4:30 in the morning until present. I went to sleep at one last night, two airplanes. I woke up at 4:30, two airplanes, because of this	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods though, there are no other options, you have to land into the wind at certain velocities and with the weather conditions we've had that's our only option. MR. HUISMAN: I have to move on
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102 fever, so I've been up all night. I've listened to airplanes from 4:30 in the morning until present. I went to sleep at one last night, two airplanes. I woke up at 4:30, two airplanes, because of this fever. I've been experiencing planes all	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods though, there are no other options, you have to land into the wind at certain velocities and with the weather conditions we've had that's our only option. MR. HUISMAN: I have to move on unfortunately it's 9:05.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102 fever, so I've been up all night. I've listened to airplanes from 4:30 in the morning until present. I went to sleep at one last night, two airplanes. I woke up at 4:30, two airplanes, because of this fever. I've been experiencing planes all day because I've been home with the kid	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods though, there are no other options, you have to land into the wind at certain velocities and with the weather conditions we've had that's our only option. MR. HUISMAN: I have to move on unfortunately it's 9:05. MR. FRANKEL: Why the altitude, why
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102 fever, so I've been up all night. I've listened to airplanes from 4:30 in the morning until present. I went to sleep at one last night, two airplanes. I woke up at 4:30, two airplanes, because of this fever. I've been experiencing planes all day because I've been home with the kid probably 60 to 90 seconds going over the house in East Hills, Roslyn Heights, New	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods though, there are no other options, you have to land into the wind at certain velocities and with the weather conditions we've had that's our only option. MR. HUISMAN: I have to move on unfortunately it's 9:05. MR. FRANKEL: Why the altitude, why does it got to be that I can read the letters of Delta?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102 fever, so I've been up all night. I've listened to airplanes from 4:30 in the morning until present. I went to sleep at one last night, two airplanes. I woke up at 4:30, two airplanes, because of this fever. I've been experiencing planes all day because I've been home with the kid probably 60 to 90 seconds going over the house in East Hills, Roslyn Heights, New York. This is a neighborhood that, you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods though, there are no other options, you have to land into the wind at certain velocities and with the weather conditions we've had that's our only option. MR. HUISMAN: I have to move on unfortunately it's 9:05. MR. FRANKEL: Why the altitude, why does it got to be that I can read the letters of Delta? MR. TAMBURRA: Airspace and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102 fever, so I've been up all night. I've listened to airplanes from 4:30 in the morning until present. I went to sleep at one last night, two airplanes. I woke up at 4:30, two airplanes, because of this fever. I've been experiencing planes all day because I've been home with the kid probably 60 to 90 seconds going over the house in East Hills, Roslyn Heights, New York. This is a neighborhood that, you know, people work really hard, they pay a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods though, there are no other options, you have to land into the wind at certain velocities and with the weather conditions we've had that's our only option. MR. HUISMAN: I have to move on unfortunately it's 9:05. MR. FRANKEL: Why the altitude, why does it got to be that I can read the letters of Delta?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102 fever, so I've been up all night. I've listened to airplanes from 4:30 in the morning until present. I went to sleep at one last night, two airplanes. I woke up at 4:30, two airplanes, because of this fever. I've been experiencing planes all day because I've been home with the kid probably 60 to 90 seconds going over the house in East Hills, Roslyn Heights, New York. This is a neighborhood that, you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods though, there are no other options, you have to land into the wind at certain velocities and with the weather conditions we've had that's our only option. MR. HUISMAN: I have to move on unfortunately it's 9:05. MR. FRANKEL: Why the altitude, why does it got to be that I can read the letters of Delta? MR. TAMBURRA: Airspace and separation. There's a separation between
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	quorum. We're going to open the floor to the public comment period. MR. FRANKEL: David Frankel from Roslyn Heights. I'm just a resident. I got to tell you, this is the first time I've done this and I'm hearing a lot of acronyms and technical jargon, that's quite frustrating especially this whole quorum nonsense that's unbelievable. Here is my situation. My kid's got a 102 fever, so I've been up all night. I've listened to airplanes from 4:30 in the morning until present. I went to sleep at one last night, two airplanes. I woke up at 4:30, two airplanes, because of this fever. I've been experiencing planes all day because I've been home with the kid probably 60 to 90 seconds going over the house in East Hills, Roslyn Heights, New York. This is a neighborhood that, you know, people work really hard, they pay a lot of taxes not that that really matters,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Bridge. And unfortunately it doesn't always workout where we can change. Kennedy actually does it quite a lot more than LaGuardia does. Kennedy will go to 13 at times. There will be stuff aircrafts landing 22 left. But the majority land at 13. So there aren't changes made to the JFK configuration and it's actually doing it quite often instead. There are periods though, there are no other options, you have to land into the wind at certain velocities and with the weather conditions we've had that's our only option. MR. HUISMAN: I have to move on unfortunately it's 9:05. MR. FRANKEL: Why the altitude, why does it got to be that I can read the letters of Delta? MR. TAMBURRA: Airspace and separation. There's a separation between LaGuardia and JFK that's how controllers

	Page 93		Page 95
1	Proceedings	1	Proceedings
2	public?	2	deal?
3	UNIDENTIFIED SPEAKER: This question	3	MS. HERNDON: Yes.
4	is to the Port Authority so Plane Sense	4	UNIDENTIFIED SPEAKER: We just got
5	worked with a developer in California to	5	to find something. I love a deal.
6	bring down air noise to all airports	6	MS. MITCHELL: Kelly Mitchell from
7	across the country. The complaints that	7	the Port Authority just to
8	are now being filed to the Port Authority	8	I just need to understand what type
9	are unbelievable. So this month our	9	of research were you looking for the Port
10	August report between the Port Authority	10	Authority to do?
11	website and air noise were 16,000	11	UNIDENTIFIED SPEAKER: Are they
12	complaints. What is the Port Authority	12	looking to
13	doing to research these complaints.	13	I mean, isn't this a red flag to
14	16,000 last month was 15,000, the month	14	know that these communities are being
15	before was 14,000. I mean, isn't this	15	inundated over and over again. I recently
16	putting up a red flag to somebody that	16	moved because I was 300 feet above sea
17	there is major problems going on? We have	17	level and I was getting planes at
18	people from Brooklyn, Queens, Manhattan,	18	900 feet. Bill knows all of this. I
19	all of Long Island, Suffolk, Nassau that	19	moved six miles from my house and I'm just
20	are part of the air noise. What are you	20	as inundated and I'm six miles further
21	going to do to recognize these complaints?	21	away in Jericho than I was in East Hills.
22	MR. HUISMAN: We may not have an	22	So I just want you to know that the same
23	answer at this particular point.	23	communities and the same areas are being
24	MS. HERNDON: Port Authority reports	24	inundated dated over and over again with
25	the monthly complaint reports to the	25	the 22 arrivals and the four departures.
	Page 94		Page 96
1	•	1	-
1	Proceedings	1	Proceedings
2 3	monthly circulation, correct?	2	I mean, the 22 arrivals last month had
4	UNIDENTIFIED SPEAKER: Yes.	3	9,000 arrivals on the 22, we were killed.
5	MS. HERNDON: In terms of research,	4 5	MS. MITCHELL: So just so that
6	we do we are aware that the number of		everyone else understands how the Port
7	complaints has gone up since this act has	6 7	Authority looks at the complaints, we
8	grown. But interestingly, the number of		review them, we see where they're coming
	complaints has not gone up significantly,	8	from, we put them together into a report
9 10	it's gone up a little bit.	9	as was mentioned by my colleague, Jane.
11	UNIDENTIFIED SPEAKER: Why should	10	We distribute these reports so the amount
12	that matter? It's still a complaint. One	11 12	of the complaints that we receive is
13	complaint. If you call the phone number,	13	identified and so it is researched. If it
13	they call it a single event occurrence. A single event occurrence is one plane, what	13	is a new one that has been a new
14	Single event accurrence is one plane. What	14	complainant then we reach out to the new
	•	15	
15	does it matter if it's coming from my	15 16	complainant to see what exactly was their
15 16	does it matter if it's coming from my house or the person next door. I'm not	16	complainant to see what exactly was their issue as they had outlined it. You're
15 16 17	does it matter if it's coming from my house or the person next door. I'm not crazy, I know what I'm hearing, so it	16 17	complainant to see what exactly was their issue as they had outlined it. You're referencing a new kind of system that the
15 16 17 18	does it matter if it's coming from my house or the person next door. I'm not crazy, I know what I'm hearing, so it shouldn't be household, it should be every	16 17 18	complainant to see what exactly was their issue as they had outlined it. You're referencing a new kind of system that the communities around the airport is
15 16 17 18 19	does it matter if it's coming from my house or the person next door. I'm not crazy, I know what I'm hearing, so it shouldn't be household, it should be every single complaint that's filed.	16 17 18 19	complainant to see what exactly was their issue as they had outlined it. You're referencing a new kind of system that the communities around the airport is utilizing other than what the airport has
15 16 17 18 19 20	does it matter if it's coming from my house or the person next door. I'm not crazy, I know what I'm hearing, so it shouldn't be household, it should be every single complaint that's filed. MS. HERNDON: I think the best thing	16 17 18 19 20	complainant to see what exactly was their issue as they had outlined it. You're referencing a new kind of system that the communities around the airport is utilizing other than what the airport has put out as far as their website and
15 16 17 18 19 20 21	does it matter if it's coming from my house or the person next door. I'm not crazy, I know what I'm hearing, so it shouldn't be household, it should be every single complaint that's filed. MS. HERNDON: I think the best thing to do is if I can get your name and number	16 17 18 19 20 21	complainant to see what exactly was their issue as they had outlined it. You're referencing a new kind of system that the communities around the airport is utilizing other than what the airport has put out as far as their website and calling in on their hotline. So it is
15 16 17 18 19 20 21 22	does it matter if it's coming from my house or the person next door. I'm not crazy, I know what I'm hearing, so it shouldn't be household, it should be every single complaint that's filed. MS. HERNDON: I think the best thing to do is if I can get your name and number after the meeting concludes and the head	16 17 18 19 20 21 22	complainant to see what exactly was their issue as they had outlined it. You're referencing a new kind of system that the communities around the airport is utilizing other than what the airport has put out as far as their website and calling in on their hotline. So it is research and it is distributed to the
15 16 17 18 19 20 21 22 23	does it matter if it's coming from my house or the person next door. I'm not crazy, I know what I'm hearing, so it shouldn't be household, it should be every single complaint that's filed. MS. HERNDON: I think the best thing to do is if I can get your name and number after the meeting concludes and the head of our noise office can get in touch with	16 17 18 19 20 21 22 23	complainant to see what exactly was their issue as they had outlined it. You're referencing a new kind of system that the communities around the airport is utilizing other than what the airport has put out as far as their website and calling in on their hotline. So it is research and it is distributed to the communities and to the FAA. And so I just
15 16 17 18 19 20 21 22 23 24	does it matter if it's coming from my house or the person next door. I'm not crazy, I know what I'm hearing, so it shouldn't be household, it should be every single complaint that's filed. MS. HERNDON: I think the best thing to do is if I can get your name and number after the meeting concludes and the head of our noise office can get in touch with you and explain the research that goes on.	16 17 18 19 20 21 22 23 24	complainant to see what exactly was their issue as they had outlined it. You're referencing a new kind of system that the communities around the airport is utilizing other than what the airport has put out as far as their website and calling in on their hotline. So it is research and it is distributed to the communities and to the FAA. And so I just wanted everyone to understand that that's
15 16 17 18 19 20 21 22 23	does it matter if it's coming from my house or the person next door. I'm not crazy, I know what I'm hearing, so it shouldn't be household, it should be every single complaint that's filed. MS. HERNDON: I think the best thing to do is if I can get your name and number after the meeting concludes and the head of our noise office can get in touch with	16 17 18 19 20 21 22 23	complainant to see what exactly was their issue as they had outlined it. You're referencing a new kind of system that the communities around the airport is utilizing other than what the airport has put out as far as their website and calling in on their hotline. So it is research and it is distributed to the communities and to the FAA. And so I just

	Page 97		Page 99
1	Proceedings	1	Proceedings
2	So as Jane mentioned, we can talk offline	2	well as the current monitors portables
3	as far as really what do you want to see	3	that are out so that is sent out to
4	happen other than how we have been	4	communities.
5	reporting that information.	5	MS. CAMPBELL: Do they utilize it?
6	UNIDENTIFIED SPEAKER: We just need	6	I mean, send out do they use it for
7	to know that some of these neighborhoods	7	anything or just send out the data?
8		8	MR. HUISMAN: Does the PA Port
9	And listen, I don't care if you live	9	Authority use the data?
10	in the airport or away from it.	10	MS. CAMPBELL: And do they plan to
11	MR. SCHREIBER: We can't	11	install anymore?
12	I don't understand. This is a real	12	MS. HERNDON: So for the
13	problem, but we can't have a debate going	13	Some of the monitors will detect if
14	back and forth right now.	14	
15	MS. MITCHELL: I'm	15	there is a violation of a noise rule from
16		16	the airport. And if there is a violation
17	MR. SCHREIBER: I'm not saying you,	17	of the noise rule then Port Authority
18	Kelly.	18	follows up with the aircraft operator.
	And I understand you're not happy		MS. CAMPBELL: Do you factor it into
19	with the answer, Janet, but they did	19	your numbers when you're doing the noise
20	answer the question. I'm sure none of us	20	complaints?
21	are happy with the answers. But, you	21	MS. HERNDON: That's not registered
22	know, at least for time itself	22	as a complaint, that's a separate process.
23	UNIDENTIFIED SPEAKER: I guess my	23	MS. CAMPBELL: It's not factored in.
24	last request is if you're aware of	24	I know it's a level, but if it's in a
25	research that other airports like San	25	particular area, then it should be.
	Page 98		Page 100
1	Proceedings	1	Proceedings
2	Diego they have the noise	2	MS. HERNDON: We can talk after.
3	MS. HERNDON: It's throughout the	3	MR. HUISMAN: Thank you, Jane.
4	country, the whole country has it.	4	We're getting late and I know everybody
5	MS. HERNDON: I just threw that out	5	has somewhere else to go at this hour of
6	as an example. If you are aware of any	6	the evening. Stacey Gilbert is going to
7	particular research they are doing that	7	talk.
8	you think might be effective, please, let	8	MS. GILBERT: I'm sorry. I will
9	us know.	9	make a very quick announcement. I just
10	UNIDENTIFIED SPEAKER: Got it.	10	wanted everyone in attendance to be aware
11	MR. HUISMAN: Stacey Gilbert has an	11	there's a runway project coming up at JFK,
12	announcement to make.	12	Runway 13 left, 31 right. It will be
13	MS. CAMPBELL: Hi, Jackie Campbell.	13	taking place next year, however, there
	ino. o, an belle in odokio campboll.	1	
14		14	will be two public information sessions
14	So do we still use the data from the noise	14	will be two public information sessions taking place on Tuesday. October 16th and
14 15	So do we still use the data from the noise monitors that were installed? I know we		taking place on Tuesday, October 16th and
14	So do we still use the data from the noise monitors that were installed? I know we installed some you guys installed some	15	taking place on Tuesday, October 16th and don't worry, you don't have to write this
14 15 16 17	So do we still use the data from the noise monitors that were installed? I know we installed some you guys installed some in key locations, no? Are you using the	15 16 17	taking place on Tuesday, October 16th and don't worry, you don't have to write this down because the information is going to
14 15 16 17 18	So do we still use the data from the noise monitors that were installed? I know we installed some you guys installed some in key locations, no? Are you using the noise monitors or you don't know? And	15 16 17 18	taking place on Tuesday, October 16th and don't worry, you don't have to write this down because the information is going to be published in several newspapers
14 15 16 17 18 19	So do we still use the data from the noise monitors that were installed? I know we installed some you guys installed some in key locations, no? Are you using the noise monitors or you don't know? And second part of it is do you have plans to	15 16 17 18 19	taking place on Tuesday, October 16th and don't worry, you don't have to write this down because the information is going to be published in several newspapers throughout Queens and Long Island. So I'm
14 15 16 17 18 19 20	So do we still use the data from the noise monitors that were installed? I know we installed some you guys installed some in key locations, no? Are you using the noise monitors or you don't know? And second part of it is do you have plans to install more of those monitors?	15 16 17 18 19 20	taking place on Tuesday, October 16th and don't worry, you don't have to write this down because the information is going to be published in several newspapers throughout Queens and Long Island. So I'm going to send the draft environmental
14 15 16 17 18 19 20 21	So do we still use the data from the noise monitors that were installed? I know we installed some you guys installed some in key locations, no? Are you using the noise monitors or you don't know? And second part of it is do you have plans to install more of those monitors? MR. HUISMAN: I can give you an	15 16 17 18 19 20 21	taking place on Tuesday, October 16th and don't worry, you don't have to write this down because the information is going to be published in several newspapers throughout Queens and Long Island. So I'm going to send the draft environmental assessment they're actually the 16th and
14 15 16 17 18 19 20 21 22	So do we still use the data from the noise monitors that were installed? I know we installed some you guys installed some in key locations, no? Are you using the noise monitors or you don't know? And second part of it is do you have plans to install more of those monitors? MR. HUISMAN: I can give you an answer. I think the noise monitor data is	15 16 17 18 19 20 21 22	taking place on Tuesday, October 16th and don't worry, you don't have to write this down because the information is going to be published in several newspapers throughout Queens and Long Island. So I'm going to send the draft environmental assessment they're actually the 16th and 17th pardon me.
14 15 16 17 18 19 20 21 22 23	So do we still use the data from the noise monitors that were installed? I know we installed some you guys installed some in key locations, no? Are you using the noise monitors or you don't know? And second part of it is do you have plans to install more of those monitors? MR. HUISMAN: I can give you an answer. I think the noise monitor data is sent out on a monthly it's gathered and	15 16 17 18 19 20 21 22 23	taking place on Tuesday, October 16th and don't worry, you don't have to write this down because the information is going to be published in several newspapers throughout Queens and Long Island. So I'm going to send the draft environmental assessment they're actually the 16th and 17th pardon me. I will send the link for the two
14 15 16 17 18 19 20 21 22	So do we still use the data from the noise monitors that were installed? I know we installed some you guys installed some in key locations, no? Are you using the noise monitors or you don't know? And second part of it is do you have plans to install more of those monitors? MR. HUISMAN: I can give you an answer. I think the noise monitor data is	15 16 17 18 19 20 21 22	taking place on Tuesday, October 16th and don't worry, you don't have to write this down because the information is going to be published in several newspapers throughout Queens and Long Island. So I'm going to send the draft environmental assessment they're actually the 16th and 17th pardon me.

	Page 101		Page 103
1	Proceedings	1	Proceedings
2	would like my business card, who may not	2	their lives and they don't have time to
3	be on the distribution list, I am right	3	make those reports. There are many claims
4	here, you can find me. I will provide	4	that annoy me and I don't send in a report
5		5	
6	that to you and send the link to you as	6	every time because I'm doing a thousand
7	well. It is posted on the Port	7	things. So there needs to be a better way
	Authority's website, however, I think it's	8	of calculating the annoyance because you
8	simpler if you take my card and I forward	1	can't just look at how many people
9	you the link that way the environmental	9	actually made the complaint. So I just
10	assessment is posted there.	10	wanted to make that comment.
11	The information sessions will		MR. HOPPENHAUER: Can I add on to
12	provide more background on the scope of	12	that, please, because I notice that the
13	the work that's being done on the runways.	13	reports now have eliminated the number of
14	It is a state of repair project and	14	complaints for each airport, the graphics,
15	without me pontificating on exactly what	15	all they do is the household. We need to
16	that all involves, if you are able to	16	see those graphics back that show the
17	attend the meetings I strongly urge you do	17	actual number of complaints because if
18	so. One will be in Rockaways and the	18	you're under Runway 4 left departure, of
19	other in Rosedale. Again, all that	19	course, you're going to be calling a lot.
20	information is posted in the notification,	20	So I want to see the number of
21	the notifications will also be distributed	21	households the number of people
22	from the Port Authority to community board	22	complaints as well as graphed out as they
23	elected officials and other interested	23	used to do as well as the number of
24	stakeholders and anyone, as I said, that	24	households.
25	would like to see me after can grab a	25	MEMBER BROWN: Okay. And, as I
	Page 102		Page 104
1	Proceedings	l .	
	i roceedings	1	Proceedings
2	business card.	2	Proceedings said, you need to extrapolate out and
2 3			
	business card.	2	said, you need to extrapolate out and
3	business card. MR. HOPPENHAUER: Can we request one	2 3	said, you need to extrapolate out and understand that a whole lot more people
3 4	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please?	2 3 4	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have
3 4 5	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that	2 3 4 5	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to
3 4 5 6	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to	2 3 4 5 6	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank
3 4 5 6 7	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we	2 3 4 5 6 7	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara,
3 4 5 6 7 8	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten.	2 3 4 5 6 7 8 9	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need
3 4 5 6 7 8	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand.	2 3 4 5 6 7 8 9	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic.
3 4 5 6 7 8 9	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting	2 3 4 5 6 7 8 9	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft
3 4 5 6 7 8 9 10	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you.	2 3 4 5 6 7 8 9 10	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment
3 4 5 6 7 8 9 10 11	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you. We can also review the information. I do	2 3 4 5 6 7 8 9 10 11	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment begins officially tomorrow and ends on
3 4 5 6 7 8 9 10 11 12 13	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you. We can also review the information. I do want to say to the Port Authority	2 3 4 5 6 7 8 9 10 11 12 13	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment begins officially tomorrow and ends on October 29th. Even if you're not able to
3 4 5 6 7 8 9 10 11 12 13 14	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you. We can also review the information. I do want to say to the Port Authority regarding the noise complaints, it was	2 3 4 5 6 7 8 9 10 11 12 13 14	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment begins officially tomorrow and ends on October 29th. Even if you're not able to attend those public meetings you can
3 4 5 6 7 8 9 10 11 12 13 14 15	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you. We can also review the information. I do want to say to the Port Authority regarding the noise complaints, it was mentioned that you count the number of	2 3 4 5 6 7 8 9 10 11 12 13 14	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment begins officially tomorrow and ends on October 29th. Even if you're not able to attend those public meetings you can submit comment and that information will
3 4 5 6 7 8 9 10 11 12 13 14 15 16	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you. We can also review the information. I do want to say to the Port Authority regarding the noise complaints, it was mentioned that you count the number of people that are complaining. I do want to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment begins officially tomorrow and ends on October 29th. Even if you're not able to attend those public meetings you can submit comment and that information will be provided in the link that I forwarded
3 4 5 6 7 8 9 10 11 12 13 14 15 16	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you. We can also review the information. I do want to say to the Port Authority regarding the noise complaints, it was mentioned that you count the number of people that are complaining. I do want to make the comment that you should not rely	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment begins officially tomorrow and ends on October 29th. Even if you're not able to attend those public meetings you can submit comment and that information will be provided in the link that I forwarded to Barbara and distributed to anyone else
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you. We can also review the information. I do want to say to the Port Authority regarding the noise complaints, it was mentioned that you count the number of people that are complaining. I do want to make the comment that you should not rely on the number of people who comment	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment begins officially tomorrow and ends on October 29th. Even if you're not able to attend those public meetings you can submit comment and that information will be provided in the link that I forwarded to Barbara and distributed to anyone else that's interested. MEMBER BROWN: How can you start a
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you. We can also review the information. I do want to say to the Port Authority regarding the noise complaints, it was mentioned that you count the number of people that are complaining. I do want to make the comment that you should not rely on the number of people who comment because that's a very low number. When I look at your data it it almost looks	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment begins officially tomorrow and ends on October 29th. Even if you're not able to attend those public meetings you can submit comment and that information will be provided in the link that I forwarded to Barbara and distributed to anyone else that's interested. MEMBER BROWN: How can you start a comment period before people have the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you. We can also review the information. I do want to say to the Port Authority regarding the noise complaints, it was mentioned that you count the number of people that are complaining. I do want to make the comment that you should not rely on the number of people who comment because that's a very low number. When I look at your data it it almost looks like nobody is upset.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment begins officially tomorrow and ends on October 29th. Even if you're not able to attend those public meetings you can submit comment and that information will be provided in the link that I forwarded to Barbara and distributed to anyone else that's interested. MEMBER BROWN: How can you start a
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you. We can also review the information. I do want to say to the Port Authority regarding the noise complaints, it was mentioned that you count the number of people that are complaining. I do want to make the comment that you should not rely on the number of people who comment because that's a very low number. When I look at your data it it almost looks like nobody is upset. But there are large number of people	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment begins officially tomorrow and ends on October 29th. Even if you're not able to attend those public meetings you can submit comment and that information will be provided in the link that I forwarded to Barbara and distributed to anyone else that's interested. MEMBER BROWN: How can you start a comment period before people have the thing which they are supposed to comment? MS. GILBERT: The environmental
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you. We can also review the information. I do want to say to the Port Authority regarding the noise complaints, it was mentioned that you count the number of people that are complaining. I do want to make the comment that you should not rely on the number of people who comment because that's a very low number. When I look at your data it it almost looks like nobody is upset. But there are large number of people throughout our communities who are very	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment begins officially tomorrow and ends on October 29th. Even if you're not able to attend those public meetings you can submit comment and that information will be provided in the link that I forwarded to Barbara and distributed to anyone else that's interested. MEMBER BROWN: How can you start a comment period before people have the thing which they are supposed to comment?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	business card. MR. HOPPENHAUER: Can we request one in Nassau County, please? MS. GILBERT: I will take that information back to MR. HOPPENHAUER: Please do, we don't like being forgotten. MS. GILBERT: I understand. MEMBER BROWN: We will be getting all of the links and PowerPoints to you. We can also review the information. I do want to say to the Port Authority regarding the noise complaints, it was mentioned that you count the number of people that are complaining. I do want to make the comment that you should not rely on the number of people who comment because that's a very low number. When I look at your data it it almost looks like nobody is upset. But there are large number of people	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	said, you need to extrapolate out and understand that a whole lot more people are more annoyed with you than have actually made the complaints. I want to thank MS. GILBERT: I'm sorry, Barbara, can I add quickly one thing. I don't need the mic. The comment period for the draft assessment, environmental assessment begins officially tomorrow and ends on October 29th. Even if you're not able to attend those public meetings you can submit comment and that information will be provided in the link that I forwarded to Barbara and distributed to anyone else that's interested. MEMBER BROWN: How can you start a comment period before people have the thing which they are supposed to comment? MS. GILBERT: The environmental assessment is posted on the Port Authority

	Troditation	30ptombor 20, 2010
	Page 105	
1	Proceedings	
2	newspapers in Queens and Long Island.	
3	MEMBER BROWN: When?	
4	MS. GILBERT: Tomorrow. Once the	
5	notice is published that's when the	
6	official comment period begins. But the	
7	draft EA, presuming that you have internet	
8	access and the official reports are	
9	available at JFK and downtown at 4 World	
10	Trade Center, I realize a lot of you are	
11	probably Queens.	
12	MEMBER BROWN: So it starts when the	
13	notice is published?	
14	MS. GILBERT: Yes. It ends on	
15	October 29th.	
16	MEMBER BROWN: Okay. Thank you and	
17	I want to thank all of you for coming out.	
18	JFK meeting Monday October 1st.	
19	(Whereupon, at 9:20 p.m., the above	
20	matter concluded.)	
21		
22		
23		
24		
25		
	Page 106	
_	_	
1	CERTIFICATION	
2	LIATONIA CIENVIS a Notani	
4	I, LA TONIA C. LEWIS, a Notary Public for and within the State of New	
5	York, do hereby certify that the above is	
6	a correct transcription of my stenographic	
7	notes.	
8	notes.	
9		
10	Janehose Regarting LA TONIA C. LEWIS	
11	LA TONIA C. LEWIS	
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 22		
22		
23 24		
24 25		
1 20		

Α
A-rated 44:16
a.m 12:8
A11277 20:6
A320 28:5 A380 52:5
A380s 61:20
ability 43:16 61:2
67:22
able 14:10 42:12 46:17 47:5 80:12
82:20 101:16 104:13
Abnormality 44:9
absence 83:8,11 86:9
Absolutely 53:6
accelerate 40:9 accepted 13:21 57:24
access 105:8
account 20:18 63:9
76:9
accounting 26:21 62:6 accounts 26:21 78:24
accurate 45:13
accurately 46:18
achieve 33:7 35:14
46:14 acronym 42:4
acronyms 90:8 91:5
act 42:17 94:6
action 13:8 14:14 80:3
actionable 22:12 82:19
actual 36:8 57:24 58:6
103:17
adaptive 35:11
add 12:10,16 15:23
18:6,8 20:7 87:18 103:11 104:8
added 12:7
adding 43:21
additional 35:14 43:22
46:15 address 46:12 47:5,11
86:8
addressing 10:10
administration 7:9,11
7:13 23:25 32:18
adopt 50:9 advance 9:5 29:4
63:18
advanced 59:7
advisor 24:5
AEDT 22:19,24 23:22 24:23 25:15,16 40:3
40:13 41:3,12,12,20
42:5,18 43:7,11 45:7
45:9,10 56:17,22,23

agencies 82:14
agency 11:2,10 82:16 agenda 9:15 21:18
agenda 9:15 21:18
ago 17:18.25 61:23.24
62:17 72:12 74:21
62:17 72:12 74:21 80:23 88:17 91:19
agree 88:20
agreed 41:2
agreement 81:22
Aidan 3:14 6:7
air 26:10 29:17 30:25
42:11,14 54:4 62:8
73:5,15,23 92:24
93:6,11,20
Airbus 33:12
aircraft 25:19,25 26:6
26:8,13,18,23 27:10
27:15,20,22,24 28:2
30:21 31:19 32:25
33:12 36:3,21,24
37:19 41:10 42:25
43:23,25 44:4 45:13
45:15.17.22.24 46:5
51:22 52:3,13 53:9
53:12,17 54:8 55:5
56:6,9 60:17 62:5
63:2,3,6 64:6 65:23
68:24,25 70:17
71:15 75:9 99:17
aircrafts 25:25 26:8
27:6 28:4,6 33:7,9
37:20 44:25 52:17
54:23 55:6 63:7 70:6
70:7 71:18 73:16
91:14 92:7
airflow 35:13
airline 31:3 60:18,25
airlines 9:9 60:25
67:20
airplane 9:18 10:11
11:24 12:20 14:21
15:20,24 16:9 19:5
19:11,20 20:18,23
61:14
airplanes 12:2,7,11
18:23 61:18 77:17 90:13,15,16
airport 6:13 42:12,15
58:22 67:9 75:8
81:18,19 89:21,23
01.10,19 09.21,23

57:4 58:9,16 59:4,6

59:20.23

53:22

aedt.faa.gov 43:6

aerodynamically

affect 45:3 78:10

agencies 82:14

aerodynamics 54:2

06:10 10 07:10
96:18,19 97:10
99:15 103:14
airports 22:21 57:2
68:10 70:18 93:6
97:25
airspace 68:10,12,20
68:22,23 69:24
92:21 [°]
aisle 62:21,21
aisles 62:21,22
Alan 8:16
algorithm 44:24
all-encompassing
34:22
Allan 2:11 5:9
allow 70:18 71:20 81:8
allowed 27:7
allows 73:16
alluded 74:18 75:5
alternate 83:15
alternates 83:17
alternative 29:5
altitude 69:8 92:18
altitudes 70:12
amazing 35:21
AMO 44-40
AMC 44:16
amend 84:13
amendments 19:23
amount 27:6,9 96:10
analysis 41:22 58:6
analyze 13:16
and/or 29:6
Anderson 3:6 9:10,10
Andrew 2:22 3:20 7:12
7:20 8:5,6 14:7
54:20 57:3
Ann 6:23
announcement 98:12
100:9
annoy 103:4
annoyance 103:7
annoyanice 100.7
annoyed 104:4
annoying 77:22,23
answer 14:10 18:18
22:18 47:2 74:16
00.40.04.6.0.03.03
88:12 91:6,8 93:23
97:19,20 98:22
answered 51:2 66:11
answers 62:2 97:21
anticipate 74:3
anticipation 17:10
74:25
Anybody 83:4 92:25
100:25
anymore 52:4 99:11
applicability 36:2
applications 80:19
applications out to

```
applied 80:22
apply 19:5,10
appreciate 25:11 34:4
  46:22 77:18
approach 46:11 71:12
  71:13,14,15
approaching 53:17
appropriate 43:17
approved 22:25
approving 43:16
April 67:3 81:17 89:12
  89:15
area 18:19 39:21 69:2
  76:17 78:7 99:25
areas 95:23
argument 13:23 88:17
  88:18
arrival 75:9
arrivals 95:25 96:2,3
aside 74:6
asked 18:14 38:19
asking 19:6 49:11
aspect 78:15
aspirational 50:21
assembly 5:8 28:3
  38:11 52:8 60:7
assemblyman 9:25
  20:4,7 21:3 47:20
Assemblymember
  9:24 14:13 21:2
assess 42:24
assessment 38:21
  100:21 101:10
  104:11,11,23,24
assessments 41:15
assistant 7:16
associated 42:3
Association 7:4
assume 19:24
assuming 64:9
Atlantic 67:18 69:13
  69:17
attain 79:22
attend 83:2,10,15
  101:17 104:14
attendance 87:16 88:7
  100:10
attended 81:24 83:19
  85:4,11,15
attending 81:21 89:20
attention 32:15
audience 10:16
August 93:10
Aurora 37:13
authorities 11:11
authority 1:1 6:4.6 7:2
```

8:9 11:10 14:3 58:3

59:2 67:12 85:16 93:4,8,10,12,24 95:7 95:10 96:6 99:9.16 101:22 102:13 104:23 Authority's 101:7 availability 91:11 available 8:19 31:16 31:19 39:3 47:9 48:17 105:9 average 11:25 15:17 16:7 71:6 aviation 1:4 4:5,9,11 7:9,11,13 8:9 23:25 40:12 41:25 42:22 63:12 75:17 awaiting 80:25 aware 71:14 94:5 97:24 98:6 100:10 В **B** 11:6 **babies** 80:24 back 11:20 22:3 36:20 51:20 54:5 81:12,17 84:15 97:14 102:6 103:16 background 25:12 101:12 Barbara 2:3 3:15 10:3 21:7 23:21 79:18 80:15 84:24 100:24 104:7,17 base 58:6 91:11.15 baseline 62:23

51:5 70:13 71:3 73.11 best 17:15 23:6 43:12 61:7 94:20 **better** 18:9 37:20 43:19 44:20 46:18 46:20 50:4 69:14,15 74:16 103:6 Beverly 2:20 big 16:20 77:22 bigger 17:7 61:17 62:16 **bill** 2:4 4:9 7:3 8:2 10:2 11:22 13:12,25 19:16,22 20:5,9,11 64:17 67:9 89:3 95:18 billion 30:6 bipartisan 64:5 bit 9:14 25:20 32:17 34:20 49:3 53:3 61:5 69:14,15 84:23 90:24 94:9 black 51:23 52:11 **blades** 65:17 blocking 73:4 board 4:17 5:8 13:2 17:2 20:24 51:2 82:15 85:9 86:5 101:22 **boards** 82:14 85:3 body 14:25 85:10,19 Boeing 33:11 35:10 37:15 38:10 45:22 borough 5:5,10 6:12 8:10,17 49:5 72:6 85:8,13 **Boston** 67:17 **bottom** 39:3 47:13 **bought** 37:14 **Bowman** 7:10,10 Boye-Charles 6:11,12 **Braunstein** 2:12 12:24 20:2,4,10 21:4 47:20 47:21 66:21 74:2,20 75:10 76:12 **break** 77:2 breakdown 74:23 **Brett** 35:23 **Brett's** 68:3 Bridge 92:2 **brief** 24:13 briefing 24:22,24 49:2 66:24 68:15 briefings 25:18 bring 16:16.22 20:24 54:9 93:6

bringing 37:12 55:21 Brooklyn 93:18 **Brooks** 3:20 7:12.12 14:7,7 57:3,3 brought 44:8 64:8 Brown 2:3,20 3:15 6:15,15 21:7,8 22:4 61:8 62:11 66:4 80:18 83:13,24 84:8 84:17 87:8,13 88:23 102:10 103:25 104:19 105:3,12,16 **Bryce** 3:4 9:7,7 budget 29:24,24 32:9 32:13,20 **build** 44:17 **bullet** 45:4 burn 30:9 31:2 39:4 42:10 65:19 **burns** 35:20 business 86:17 101:2 102:2 **buy** 31:14 **bylaws** 84:7,10,11,13 84:21 85:16

С **C** 2:1 3:1 106:3,11 calculating 103:7 calculations 41:4 43:9 44:15 45:6,7 calendar 45:11 89:24 California 9:19 13:20 13:22 17:6,9,14 18:15 20:17 93:5 call 70:4 94:12.13 called 28:12 35:11 83:10 calling 96:21 103:19 **calls** 80:6 Campbell 3:5 98:13.13 99:5,10,18,23 capabilities 44:7 59:6 70:8 capability 44:18 Capalbi 2:8 5:25,25 capture 11:12,23 17:20 captured 27:17 captures 11:4 card 101:2,8 102:2 care 25:17,23 97:9 careful 87:15 **Carl** 13:7 Carroll 2:9 5:4,4 13:25 49:4,4,11,21 72:5,5 73:19

cars 39:18 case 8:21 58:6 catch 77:2 catch-22 84:5 cause 9:24 11:15 73:7 80:3 85:18,18 causes 76:2 Center 7:4 38:18 105:10 certain 17:24 26:2,12 31:11,15 44:10,11 65:10,23 70:17 72:16 92:13 certifiable 29:8 certification 26:17 27:2,3 46:3 62:3,4,7 certify 25:24 106:5 **chair** 13:4 50:25 60:20 **Chairs** 8:19 Chala 6:9,9 **challenge** 46:4,10,12 46:13 Chamber 5:12 80:21 **chance** 24:10 change 10:24 11:18 11:18,23 12:9 48:13 55:7 73:5,14 82:13 83:23 92:3 changed 48:13 changes 44:21 58:21 92:9 **changing** 14:6 34:14 Chapoteau 3:19 7:24 7:24 chart 26:25 30:12 33:16 check 38:24 Chen 5:7,7 chief 23:24 24:4,14,16 **choice** 55:25 chosen 56:24 72:24 Chuck 89:2 Cindy 2:7 7:15 **circle 21:13** circulation 94:2 circumstances 17:18 citizen 4:22 6:19 city 5:8 19:9 70:12 civil 9:4 42:21 **claims** 103:3 clarification 85:25 86:19 87:19 clarifications 25:16

clarify 19:18

66:3

clean 39:6,10,12 50:2

clear 50:12 clearly 12:8 38:13 **CLEEN** 22:15 23:22 24:21 25:4,14 28:12 29:17 34:6,14 36:16 38:8,21 39:14,25 40:7 43:3 47:18 51:3 60:4 62:19 64:3,24 65:12 73:23 climate 31:4 climb 47:24 48:15,16 68:5 72:24 73:2,8 74:4 75:13,14,18,19 76:11,13 climbs 72:15,17 **Clive** 3:7 16:25 50:25 close 38:2 closely 35:22 36:5 closer 70:19 73:17 closing 45:23 CNEL 9:21 12:2 13:25 14:6 15:4 18:15 20:9 co-chair 21:7 co-chairs 4:5 10:3 co-sponsor 19:24 20:5 coast 67:18 69:8,13 69:17 coating 65:17 cockpit 34:15 **coding** 65:16 **colleague** 67:11 96:9 colleagues 12:24 20:22 combination 15:11 **combining** 69:11,20 combuster 38:9 combustion 34:16 come 8:13 14:22 15:12 24:7 31:20 46:22 82:6 comes 26:7 71:3 coming 7:17 10:9 28:2 49:13 50:3 51:23,25 53:11 54:4 55:3 60:5 60:7 94:15 96:7 100:11 105:17 comment 14:8 55:23 90:3 102:17,18 103:10 104:10,15,20 104:21 105:6 Commerce 5:12 80:21 commercial 26:23 46.7 commitment 58:16 59:3 committee 5:6 6:14

13:5,17 20:13 42:22 81:2.18.19 84:2.18 88:4 89:6.21.23 committees 87:16 communicate 46:23 communities 4:13 11:9,20,22 14:24 44:20 51:6 77:21 95:14,23 96:18,23 99:4 102:23 **community** 1:4 4:11 4:16,23 17:2 18:2 25:19,21 26:16,19 51:2 68:16 82:14,15 85:3,8 101:22 commuter 42:5 companies 34:8 company 37:15 65:16 **comparison** 62:24,25 compatibility 59:12 complainant 96:14,15 complaining 102:16 complaint 93:25 94:11 94:12,19 99:22 103:9 complaints 77:24 93:7 93:12,13,21 94:6,8 96:6,11 99:20 102:14 103:14,17,22 104:5 **complete** 67:19 71:16 completed 69:3 completely 13:2 16:11 40:6 complex 27:16 compliance 41:21 complicated 63:5 complicating 63:8 components 34:13 comprehensive 46:11 compute 44:13 computer 67:10 computes 42:10 concept 35:24 37:22 conceptual 78:23 concern 19:19 concerned 19:9 concerning 52:24 concerns 10:11 concluded 105:20 concludes 94:22 conditions 67:23 75:7 75:8 92:14 conduct 29:6 conference 14:16 configuration 37:16 71:2,9 92:10

configurations 48:12
75:8,23 76:2,8
confliction 71:17
confused 73:20
congress 32:19 63:16 63:22,25 89:4
Congressman 4:19,21
4:25 5:3 7:15 31:22
56:15 77:12
Congresswoman 4:15
6:2 14:13
Conner 3:16
Connor 3:9 7:14,14
consecutive 86:23
87:11
consensus 81:20
86:25
Conservation 20:13 consider 44:3 65:12
80:16
considerable 64:4
considerably 45:25
consideration 17:3,8
20:18
considered 64:24
consistent 76:21
constant 61:14
constantly 79:21
constituents 10:15
constitution 81:8 84:10
constrained 68:23
construction 19:10
91:12
consultants 57:9 58:4
consumption 50:4
Cont 3:1
contingent 51:15
continue 28:11 43:7
71:25 82:18
continued 52:19 54:16 75:13
continuing 41:24
48:12
continuous 28:13
contribute 26:13
contribution 30:2
control 10:22
controllers 73:15
92:23
conventional 72:17
conversation 27:14 conversions 69:23
coordinated 23:17
coordinating 81:2
84:2,17
copies 22:3

copy 1:24 47:9
core 57:23
corner 60:12,14
Corona 5:22
corporate 70:7
corporation 63:12
corporations 63:17
correct 18:24 19:5
72:22 94:2 106:6
correction 62:8
correctly 15:9 Corridor 23:15 66:13
67:2,4,7,13,16 68:9
69:7
cost 28:17
council 4:10 6:16 19:9
Councilman 6:21
count 66:18 102:15
countries 40:24
country 93:7 98:4,4 County 102:4
County 102.4
couple 10:9 37:4
47:12 53:4 74:7,9
80:10,24 91:18
course 8:18 26:20
36:19 58:21 70:13
86:9 103:19
Court 1:12
covered 34:4
covering 35:7 covers 24:20 34:9,18
crazy 94:17
create 12:17
created 17:17
critical 12:15,17 18:3
67:22 68:2,2,6
Cullen 3:24 cumulative 33:4 56:12
curious 63:22 76:21
currency 59:3
current 12:4 17:16 18:5 32:9 36:15 45:7
45:10 58:25 59:15 99:2
currently 29:20 32:22
26:17 20:11 42:15
36:17 39:11 43:15 78:13 79:8,13
Curry 3:10 7:18,18
13:10 64:16,16 77:11,11 85:25
86:21 87:5 88:20
cycle 26:5

D

D.C 67:17

daily 10:14

damage 12:19

Dan 3:11 4:18 dare 51:13 data 16:18 43:12 46:3 58:2,22 74:13 75:11 76:14,19 98:14,22 99:7,9 102:20 database 45:19,20 dated 95:24 David 5:23 90:4 day 9:18 15:4,11,14,17 15:17 26:20 48:3,15 72:25 74:8 90:18
day/night 11:25 16:7 days 91:17,18 DB 15:24 16:6 26:21 30:12 33:2,4 35:14 35:17 deal 35:17 37:8 45:17
47:18 53:15,16,25 58:17 64:11 95:2,5 dealing 17:5 47:17 64:6 dealt 51:19
debate 97:13 decades 36:20 37:5 December 67:24 69:5 decibels 12:6,13,17 15:15
decide 78:19 80:2,3 82:5 89:7
decision 58:12 81:2,9 83:25 84:4 decisions 48:7 58:24 84:18 91:9 deck 25:6 34:3
deconflict 71:12 decrease 27:8 39:20 deep 40:2 definite 27:8 definitely 54:18 64:2
deicing 47:18,19 delay 14:4 58:14 71:6 Delta 65:14 92:20 Dennis 2:16 7:22 8:10 15:3
deny 82:16 depart 73:16 department 49:24 departure 71:4,6 75:23,24 103:18 departures 48:17 70:6 70:25 77:8 95:25 depend 60:24 dependent 71:9
dependent 71.9 depending 53:11 depends 51:11

deploy 53:18

```
deserve 90:24
design 34:12 35:19,20
  40:13 42:2,15 51:12
  65:24 69:3
designing 47:17
detailed 22:17
details 20:11 68:7
detect 99:13
determine 17:15
develop 29:11 35:11
  41:25 50:10 55:21
  56:3
developed 41:13
  43:10 50:3 52:6
  65:16
developer 93:5
developing 37:15 38:6
  51:13 55:18
development 4:10
  24:19 28:9 30:18
  32:15 36:6 37:3,25
  57:22 58:7
developments 43:8
  51:16 52:13
develops 59:13
diameter 37:6
Diego 98:2
difference 16:6 25:6
  32:17 45:5 52:5
differences 19:22 23:7
different 8:15 9:20
  14:23 17:5,6,19
  26:22 27:20 34:8,13
  37:16 53:14 59:21
  60:2 61:5 73:6
difficult 53:8 54:18
  65:4 86:22
digital 80:7
diligence 76:18
diplomatic 9:2
dire 88:6
direct 35:17
direction 76:25
directly 38:16
director 7:16
disagree 51:18
disappointing 80:13
discuss 63:14 70:24
  84:3
discussed 19:7,8 59:7
  70:3 81:16
discussion 21:25
  54:24 86:24
discussions 50:7
  58:11 81:20
dispersal 78:6.14
disperses 71:11
```

dispersion 71:4 79:9 dissipates 44:25 distribute 96:10 100:24 distributed 96:22 101:21 104:17,25 distribution 101:3 district 7:16 77:25 78:2 82:12 districts 20:22 dive 40:2 diverge 73:18 **DNL** 9:18 11:25 15:11 26:21 43:12,17,18 49:15 documents 72:10,12 doing 13:9,24 16:2 28:10,20 46:24 55:12 92:10 93:13 98:7 99:19 103:5 dollar 31:13 32:11 **Dolores** 3:8 4:16 dominant 60:8 Don 2:8 5:25 Donovan 6:16 door 94:16 double 17:23 Download 43:5 downtown 105:9 dozen 24:14 draft 100:20 104:10 105:7 dramatically 27:21 28:7 drive 73:13 driven 11:2 76:7 driving 11:15 77:16 due 52:19 76:18 Dunlevy 3:16 duty 11:11 Ε

E 2:1,1 3:1,1 e-mail 48:5 88:25 e-mails 10:14 EA 105:7 earlier 54:15 early 20:20 57:19 60:15 easier 66:2 86:17 89:19 east 69:7 90:20 91:21 95:21 easy 54:19 economic 29:10 52:24 63:15,17,23 economics 31:3

economy 11:7 Ed 12:24,25 20:4 21:5 47:20 Edgar 3:23 edge 35:12 editorial 46:6,8 **EDMS** 41:18 Edward 2:12 **Edwards** 4:20,20 effective 98:8 efficiency 68:22 70:19 efficient 10:24 35:19 35:20 37:19 55:3 65:18 69:16,22 efficiently 71:21 efforts 10:8 51:9 57:20 eight 33:17 34:7 either 47:23,24 Elaine 3:18 4:22 elected 10:13 82:11 101:23 electives 13:3 electric 36:6 38:8 eliminated 103:13 emissions 28:13 29:2 30:7,9,23,24 34:17 41:7,18,19 42:11,20 51:7,14 64:7,11 71:7 78:17 enable 35:18 37:22 enacted 14:11 87:6 encompasses 67:16 encompassing 33:11 encouraging 72:8 endeavor 69:10 ends 33:25 104:12 105:14 energy 24:6,17,19 28:13 48:22 engaged 58:10 engaging 20:12 engine 28:6 34:12,13 34:13,17 35:16,24 36:7,8 37:3,6 43:2 44:4 53:12 54:3,5 65:8 engines 35:18 37:23 51:21,24,25 Englebright 13:6 enter 27:24 29:15 31:7 38:22 41:11 entered 31:9 entering 38:2 entire 56:12 60:21 85:19 entities 42:8 56:2 80:22,25 81:9,23

82:5 83:18 87:11 entity 83:14 86:4 entity's 82:9,17 environment 24:5,17 24:18 48:21 environmental 13:5 13:16 20:13 40:13 41:14,21 42:2,17,23 44:9,18 100:20 101:9 104:11,22 environmentally 22:4 envision 60:19 equates 30:5 equivalent 39:17 **escape** 68:5,5 70:4 **especially** 76:15 90:9 91:25 essence 21:20 essential 46:14 **essentially** 59:21,22 estimate 38:22 evaluate 39:12 evaluated 39:11 evaluating 63:20 evaluation 78:24 **Evans** 3:13 56:14,15 87:18 88:2,11 evening 4:2 15:6 16:3 20:19 56:14 100:6 evenings 25:10 event 94:13,14 **events** 51:9 everybody 23:20 61:4 89:18 100:4 everyday 52:8 everyone's 86:11 Evites 80:7 exact 60:23 exactly 63:10 96:15 101:15 example 67:25 68:3 69:19 98:6 Excellence 38:18 excellent 60:10 excused 83:11 86:9 execution 67:18 executor 84:13 exhaust 36:23,25 53:13 existing 70:11 79:6 exit 37:6 expand 36:2 52:22 53:3 84:23 expect 14:16 17:10 65:8 expectation 13:11 32:9

experience 27:18 experienced 45:2 experiencing 47:23 70:16 90:17 experimental 79:2 explain 80:15 94:24 explicitly 44:3 exposure 18:16 26:16 26:19 44:17 58:19 expressed 59:2 extent 28:2 extra 12:10 extrapolate 104:2 **eyeballing** 33:15,18 **FAA** 7:6 13:21 14:7,8

facility 36:9

65:22

74:17

fairly 38:2

faster 29:15

feature 15:7

95:18

felt 89:17

fever 90:12,17

factor 99:18

22:14,16 23:15 24:6 24:11,14,20 25:23 27:4 28:10 30:2,3 37:24 40:8 43:2 46:11 47:22 49:8,24 57:4 58:4 66:24 68:17,18 78:5 96:23 FAA's 40:16 67:7 faa.gov/go/cleen 35:3 facilitate 8:24 facilitator 4:10 fact 15:8 34:23 35:5 51:10,14 52:11 factored 99:23 factoring 61:18 factors 63:8 72:23 fair 51:4,8 86:23 fall/winter 77:7 families 25:11 fan 35:23 36:18 37:2,6 37:8 53:13 54:7 57:11 65:17 far 31:8 96:20 97:3 favor 82:24 83:3 features 44:13 federal 7:8.10.12 12:18 17:9,13 23:25 28:18 39:22 feel 83:5 85:22 feet 68:21 69:18 95:16

figure 36:17 55:16 filed 81:11 93:8 94:19 Final 1:24 87:8 **finally** 23:14 find 23:5 53:21 66:7 78:20 95:5 101:4 findings 39:2 fine 16:10 first 4:6 22:14 25:3,23 29:18 34:9 36:6 46:5 46:7,8,9 68:18 70:2 79:15 90:6 five 12:13 30:13 32:25 33:16,17 36:12 41:6 five-year 29:18,18 34:9,10 65:13 flag 93:16 95:13 fleet 27:23,25,25 28:23 29:9,15 30:24 36:4 38:22 39:15 40:10 45:19 58:7 60:22 61:2 79:7 flies 68:24 77:23 flight 29:6 34:15 37:14 46:7,9 48:12 70:20 flights 48:8 78:7 float 24:12 floor 90:2 Florida 69:12 flown 12:3,8,12 **Flushing** 10:17,18 80:21 fly 77:22 91:21 flying 60:20,20 61:21 62:13,17 77:20 focus 68:13 focused 19:20 34:11 37:5 43:11 56:10 62:20 focuses 38:3 folks 64:10 follow 13:24 30:14 59:16 following 57:17 89:9 **follows** 99:17 followup 76:18 forced 76:24 forces 29:16 75:23 foreign 40:24 forgotten 102:8 forth 51:7 74:19 78:15 89:5 97:14 fortunate 59:5 forum 64:3 forward 21:9 59:19 66:8 84:4 85:2,24

Figueroa 3:3 4:24,24

87:9 101:8 forwarded 104:16 found 36:9 four 9:16 10:23 36:11 46:6 55:10 58:15 68:9 76:3 88:17 95:25 fourth 89:13,14 frame 12:14 67:24 framework 59:10 Frankel 5:23,23 90:4,4 92:18 frequency 77:20 frequently 76:20,22 Frieda 3:12 5:2 31:21 friendly 22:5 front 34:24 37:2 87:14 frustrating 90:9 fuel 29:2,5 30:7,9 31:2 35:15,20 39:4,16 42:10 50:4 65:19 full 20:21 34:3 35:3 58:2 71:3 85:6 89:11 89:17 fully 31:24 39:15 function 27:22 Functionality 45:8 funded 31:24 32:8 funding 31:23 32:4 further 14:4 19:18 36:18 38:4 66:7 95:20 fuselage 34:19 37:16 37:18.23 futile 51:5.10 **future** 52:16

G

G650 45:22 gain 61:15 **gallons** 39:16 game 28:23 Gardens 1:6 gathered 98:23 **GE** 36:17 gear 53:20,23 geared 43:8 gears 40:6 general 36:6 38:8 generally 81:20 generated 57:23 gentleman 47:3 geometry 35:13 Georgia 38:18,20 getting 10:13 23:14 31:18 45:8 61:16 62:9,15,16 63:21

95:17 100:4 102:10 **Giants** 57:11.11 Gilbert 2:24 6:3.3 98:11 100:6,8 102:5 102:9 104:7,22 105:4,14 Gillibrand 88:25 give 53:4 60:22 67:4 74:5,15 84:12 85:16 98:21 given 51:10 56:18 gives 69:19 giving 22:17 24:10 **Glenn** 3:22 9:8 global 41:9,16,19 globe 42:13 Gloria 6:11 go 4:7 8:2 9:15 31:16 34:2 35:18 36:3,20 38:20,24 40:3 51:20 65:7,25 68:3,7 74:17 85:22 92:6 100:5 goal 30:8,9,10,14 31:6 32:22 33:5,6 50:9 goals 50:5,14,16,20 50:21 goes 55:11 59:14 60:15 82:12 94:24 going 4:6 9:12,13,14 9:15 20:14 21:6.17 22:9,13 23:18 24:11 25:8,15 27:15 28:11 32:16 33:7 37:2,5 39:12,17 40:3 41:12 43:15 45:12,14 50:5 50:9 55:10 59:11 60:9,23 61:3,8 63:12 66:5 68:3,13,19 70:23 71:25 77:16 77:16 78:18 80:14 82:20 83:9,11 84:2 86:10 90:2,19 93:17 93:21 97:13 100:6 100:17,20 102:25 103:19 104:25 Goldenberg 5:19,19 Goldman 70:25 good 4:2 34:25 36:14 56:14 85:22 **gotten** 10:19 government 6:4 11:2 12:18 17:13 28:18 29:12 39:23 **GPS** 71:13 grab 101:25 **Grace** 4:15 14:13 gracious 24:6

Graham 15:3,3,10 16:10.16 **graphed** 103:22 graphic 60:12,14 graphical 42:6 graphics 44:10 103:14 103:16 great 28:2 34:2 50:11 50:23 59:24 61:13 greater 71:10 80:20 Green 5:15,15 grew 10:17 ground 29:6 34:18 45:2 61:12 65:9 groundwork 29:22 44:2 group 47:9 grown 94:7 guess 72:2 73:19 97:23 **guest** 7:23 guests 8:14 **guide** 50:21 Gulfstream 33:14 45:22 gun 87:7 guys 25:9,20 26:14 77:13 98:16

Н

half 24:14 30:5 42:8 hand 28:4 60:12,14 66:17 79:17 handling 81:15 hands 82:23 83:4 happen 97:4 happened 36:19 41:5 57:13 happening 84:24 happens 77:5 happy 14:22 25:3 34:23 97:18,21 hard 30:17,19,20,22 53:2,5,23 54:17 62:23,25 65:21,25 70:9 79:22 90:22 Harden 7:3.3 67:9 Hassain 2:10 head 61:6 94:22 headquarters 7:7 23:23 24:3 46:24 healthcare 16:17 hear 22:13 36:24,25 37:2 51:22 53:10,11 53:12,13,17,19 heard 36:21,22 hearing 62:14 90:7

94:17 Heastie 13:7 Heights 5:24 90:5.20 91:21 help 14:17 50:17 63:16,23 64:10 65:18 69:9 80:14 helpful 15:2 66:5 helping 29:14 helps 68:25 Hempstead 7:21 8:4 9:11 54:21 Henry 2:5 4:4 Herndon 3:21 8:8,8 93:24 94:4,20 95:3 98:3,5 99:12,21 100:2 hey 90:24 Heyliger 2:19 Hi 98:13 hidden 96:25 high 53:18 66:17 69:8 70:8 higher 70:12 highest 11:13 Hileman 2:18 5:13,13 23:24 24:4,9 32:2 33:4 34:2,6 47:12,16 48:20 49:10.19.23 50:11 51:17 53:6 55:8 56:10 59:16 60:10 61:25 62:19 63:24 64:23 78:18 hill 32:10 Hills 90:20 91:21 95:21 historical 75:10 76:19 historically 75:12 hit 31:11 65:9 hold 22:9 33:23 home 90:18 homework 16:2 honest 14:9 Honestly 45:2 hopefully 12:21,21 22:6 hoping 45:11 Hoppenhauer 2:25 6:18,18 18:12,12,19 18:24 32:21 66:19 86:18 102:3,7 103:11 horribly 51:21 Hossain 6:22,22 hotline 96:21 hour 100:5

hours 12:13 16:14

20:19 48:15 74:7,9 house 90:20 94:16 95:19 household 94:18 103:15 households 103:21,24 Hughes 3:14 6:7,7 **Huisman** 2:4 4:9,9 8:12 16:23 33:19 34:5 47:6,14 61:3 64:14 72:4 88:21 92:16,25 93:22 98:11,21 99:8 100:3 hundred 32:11 77:23 hundreds 40:22,22 **IBID** 80:20 idea 34:2 59:9 79:12 ideas 53:4 identified 96:12 ignored 96:25 ilk 61:20 imagine 65:3 immediate 12:23 **impact** 23:11 39:4 63:20 impacted 17:22 18:3 20:23 23:10 44:21 implementation 69:4 implementing 58:20 59:13 61:19 implied 50:19,20 important 11:9 22:20 25:14 29:9 30:23,25 31:3 46:23 79:24,25 importantly 25:8 **improve** 34:16 67:18 67:22 68:22 improved 45:15 improvements 18:7 54:17 improving 43:9,23,25 61:10 inaudible 5:14,16 6:10 7:5 34:15,16,17 37:17 38:18 39:20 40:24 44:16,16 47:15 52:11 67:10

incentive 29:11 52:25

included 10:16 18:20

29:23 32:20 65:3

incentives 63:15,17

incentivize 29:14

incessantly 91:3

63:23

68:8

includes 83:8 including 14:5 24:21 45:18 incorporated 83:12 increase 72:21 increased 77:21 incredibly 30:17,20 incrementally 11:18 independent 38:24 individual 14:23 54:23 55:4 56:5,8,11 industry 28:16,16,19 28:21 29:4,6 30:5 31:10,17 38:17,25 39:23 40:9 50:6,15 67:14 inform 42:19 information 21:25 22:17 34:25 35:6 43:22 49:22 79:19 79:25 80:2 87:14 97:5 100:14,17 101:11,20 102:6,12 104:15 infrequently 75:25 initial 39:7,21 initiative 69:7 initiatives 22:16 67:8 68:9,11,14 70:3 INM 22:19.23 23:3.22 25:15 40:21 41:11 41:16 43:10 44:6,12 45:4,6 56:17,23 58:8 58:12 59:24 install 98:20 99:11 installed 98:15,16,16 instance 82:11 **integrated** 40:15,15 52:23 integration 72:16 interest 28:21 35:10 37:11 interested 101:23 104:18 interesting 79:23 interestingly 94:7 interface 42:6 internal 13:15 58:11 68:18 international 40:23 41:2 42:21 internet 105:7 introduce 4:7 30:21 46.16 introduced 13:13 29:8 39:15 40:17 introducing 21:3 31:2

introduction 24:13 42:25 introductions 46:15 inundated 51:6 95:15 95:20,24 invested 30:4 investment 30:6 39:22 investments 52:19 invoking 81:7 **involve** 68:16 involved 49:7,12 75:16 involves 101:16 involving 60:24 Island 13:6 78:4 93:19 100:19 105:2 issue 71:23 96:16 issues 43:14 78:12 84:20 item 9:16 21:18 22:9 22:19,21 80:19 81:14 items 22:12 80:10,18 82:19

Jackie 3:5 98:13 James 2:18,19 5:13 23:24 24:3,8 47:6 66:25 Jana 5:19 Jane 1:11,25 3:21 8:8 96:9 97:2 100:3 Janet 97:19 January 89:12,15,16 jargon 90:8 Jeffries 31:22 Jeffries' 4:25 5:3 Jennifer 48:6 Jericho 95:21 Jersey 1:1 57:18 iet 36:22,25 37:7 39:16 54:4,6 60:17 78:25 jets 60:5 Jevaughn 2:14 **JFK** 4:12 5:12 6:13 48:8,18 57:2 71:2 72:15 78:4,8 80:20 80:20 83:7 87:20 88:4,15 89:21,22 91:25 92:9,23 100:11 105:9,18 JFK's 48:11 71:9 76:8

Jim 7:10 57:4 59:7

Jones 2:17 3:17 7:8,8

joined 10:5 20:4

23:16,20 66:9 Joseph 4:20 iot 89:10 jumped 87:7 June 89:12,15 justice 44:19 Justin 3:9 7:14

Κ Kaminsky 6:8 Karteron 2:15 5:11.11 83:6,6

Kathleen 7:19 Katz 5:6,10 6:13 49:6 72:7

keep 30:24 59:15 62:14 87:15 92:24 Kelly 6:5 95:6 97:17 **Kennedy** 92:4,6

Kew 1:6 key 39:13 98:17 kickoff 57:8,18 kid 90:18

kid's 90:11 kids 15:25 **killed** 96:3

Kim 9:24 10:2 13:13 14:14,19 17:12 18:17 19:13,22 21:2 kind 49:2 51:4,8 64:19

74:18 77:14 85:20 96:17 knots 38:9,12 52:9

know 8:19 9:16 10:10 10:19,22 19:13 20:12 21:14 23:6 25:20 26:14 28:21 30:19 32:17 33:20 45:24 46:12 49:6,9 49:14,16,18 50:3,5 50:16 54:21 55:23 57:12,16 59:9,18 68:25 74:4 75:11 78:7,9 82:12 86:6

87:7,17 88:24 89:5 90:22 91:9,20 94:17 95:14,22 97:7,22 98:9,15,18 99:24

100:4 knows 10:18 89:18 95:18

Kramer 8:10,10

L

La 1:12 106:3,11 lack 54:10 LaGuardia 4:12,23 5:6

9:23 57:2 67:5 70:24 71:18 78:9.10 80:5 85:5 87:21 88:8.16 91:23 92:5,23 land 39:21 71:16 76:3

76:4 91:15,20 92:8 92.13

landing 53:20,23 71:18 92:7 landing/take-off 26:5

large 36:3,23 43:20 45:5 54:6 102:22 larger 13:23 18:20 36:3,4 37:5 62:11 63:3

largest 54:8 **Larry** 2:25 6:18 18:12 86:22

late 100:4 latest 59:4 layer 12:11 laying 29:21 44:2 lead 49:7

Lasita 5:21,21

leading 52:14 leads 75:22 learn 43:4

leave 8:22 leaving 38:10 left 8:22 10:17 92:8 100:12 103:18

legacy 40:16 41:14 44:6

legislation 14:9,11 21:3

Len 2:23 5:17 Let's 17:22 letter 86:5.13 88:25 **letters** 92:20

level 11:13,14 12:2 15:13,18 26:12 32:11 44:17 60:13 63:22 95:17 99:24

levels 9:19 15:11 30:11 32:13 33:15

Levy 48:23 Lewis 1:12 106:3,11 **licenses** 42:7,8 life 11:12 12:20 25:18

lift 53:18 **lifting** 37:17 lifts 37:18

lighter 37:19,20 line 28:3 38:11 52:8 60.8 lines 31:20

link 100:23 101:5,9

104:16 links 47:13 102:11 list 33:11 34:22 35:4 101:3

listen 97:9 listened 90:13 literally 27:15

little 9:13 12:16 25:12 49:3 53:3 61:5 69:14 69:15 70:9 71:21 77:23 78:8 84:23 90:24 94:9

live 97:9

lives 11:21,21 18:2,2 52:15 86:12 103:2 local 11:9,11 13:3

41:9,16,18 locations 98:17 long 13:6 46:13 78:3 81:10 93:19 100:19 105:2

look 44:18 48:11 52:2 60:6 65:20 74:13 102:20 103:8

looked 39:4,6 looking 39:24 46:2 51:5 79:8,14 95:9,12 looks 96:6 102:20

lost 11:8

lot 10:21 49:14 54:22 59:18,23 60:24 63:8 68:16,24 77:15,24 81:4 83:4 90:7,23 92:4 103:19 104:3 105:10

loud 27:19 36:23 51:21

louder 55:9.11 63:4 love 59:23 95:5 low 38:8 102:19 lower 28:4,13 39:8 43:17 50:4 82:2

lowest 11:14 Lynn 9:21

М

M 3:19 magenta 41:15 main 12:9 15:7 maintain 60:13 91:13 major 52:22 70:18 93:17 majority 43:13 58:5

92:8 making 8:18 11:6

69:22 manager 38:17 mandates 50:6,18 Manhattan 93:18 manner 9:4 Mantel 3:23 manufacturer 27:4 manufacturers 31:14 33:13 map 58:19,23

maps 18:16 57:24 March 69:3

margin 36:12,13 Maria 3:3 4:14,24 5:21 10:12,15 14:12

52:21 Marie 2:6 Marilyn 7:24

market 11:4 29:16 64:20 markets 10:25

Mary 63:11 mass 69:9 Massport 79:5 matched 30:4

material 35:16 matter 53:24 54:10 88:7 94:11,15

105:20 **matters** 90:23 matured 38:8

Max 28:5 38:10 45:21 52:7

maximum 26:2 mean 14:19 15:7 33:2 58:3 74:20 77:21 79:25 93:15 95:13

96:2 99:6 102:24 meaning 71:16 means 52:13

measure 9:18 13:8 15:4,13 16:21 69:13 measured 16:18 36:9

measurement 16:20 measurements 11:3 26:6,7 mechanism 64:6

Meeks 4:19,21 56:16 meet 26:2,9,10,11 32:11 36:10,12 81:3 84:3 88:5,5

meeting 8:24 21:19,23 21:24 57:8,19 74:21 80:5 81:3,17,19 85:4 85:5,6 86:6,10,13

87:21 89:7,16,18,21 94:22 105:18

meetings 9:23 14:23 74:22 81:4,5,18,22

NY 1:1

Page 113

81:24 82:7 83:2,19 84:19 85:15 86:3.23 86:25 87:12 89:8.11 89:20 101:17 104:14 meets 88:4 Melinda 5:6,10 49:5 72:7 member 4:23 5:7 6:15 6:16,19 7:3 21:8,15 21:22 22:4 61:8 62:11 66:4 80:18 83:13,24 84:8,17 85:10 86:3 87:8,13 88:23 102:10 103:25 104:19 105:3,12,16 members 8:13 12:22 13:3,15 21:9 38:19 66:16 80:5 81:15 83:3,18 85:3,17,17 86:3 87:22 100:25 membership 80:20,22 81:25 82:8,17,25 86:7,14 88:24 Men 27:12 Meng 4:15 6:2 14:13 Menos 3:12 5:2,2 31:21,21 mention 8:14 mentioned 31:22 47:10 57:4 96:9 97:2 102:15 method 9:20 methodology 40:25 44:5 metric 9:17 17:15,16 18:5,8,9 19:4 25:24 49:15 62:3,7 metrics 12:5.9 13:22 25:13,22,22 26:15 26:22 44:14,15 Meyer 55:15 mic 104:9 microphone 61:4 microphones 61:5 middle 22:22 40:18 midnight 48:3 Mike 3:6 9:10 miles 73:18 95:19,20 Miller 3:18 4:22,22 million 30:4 32:11 39:16,18,22 mind 48:25 mindful 40:3 minor 45:5 minus 33:17,17 minutes 21:18.21 missed 71:12,14

87:11 MIT 55:15 78:22 Mitchell 6:5.5 95:6.6 96:4 97:15 mitigate 51:9 80:4 mix 58:7 model 22:20,23,24 23:3,4,9 24:23 40:15 40:16 43:16 45:13 46:17 56:17,17,18 56:22,23,23,24 57:5 57:23,23 58:6 59:7 59:23 modeling 43:11,18,24 45:16 55:19 models 63:19 modern 36:24 52:2 modification 70:21 modifies 71:11 module 43:25 momentarily 47:8 Monday 89:22 105:18 money 11:6 32:6 52:12 64:2 moneys 32:2 Monica 48:22 monitor 98:22 monitors 98:15,18,20 98:25 99:2,13 Monteverdi 3:25 6:20 6:20 month 93:9,14,14 96:2 monthly 93:25 94:2 98:23,24 months 77:7 80:23 89:14 morning 15:18,23 16:8 20:20 48:3 90:14 Morse 3:22 9:8,8 **motor** 36:7 **MOU** 79:5 mouse 30:14 move 8:24 9:13,14 21:9 23:19 50:17 78:8 82:18 84:4.25 85:23 87:9 92:16 moved 95:16,19 movement 12:18 moves 78:9 movie 27:12,17 moving 11:5 22:7 59:11 66:12 MTA 11:10 multibillion 31:13 multiple 53:9

Mundy 3:11 4:18,18

49:25 50:23 N 2:1 3:1 name 33:14 42:4 56:14 94:21 narrative 11:19 **NASA** 38:3 43:3 Nassau 93:19 102:4 **Nathans** 70:25 **nation** 42:13 National 7:4 42:16 44:8 nearly 30:5 necessarily 29:10 74:12 necessary 52:16 70:21 need 8:22 27:23 30:24 33:24 46:15,17 50:12 58:24 76:17 82:19 83:22,25 84:14 89:25 95:8 97:6 103:15 104:2,8 needs 41:23 103:6 neighborhood 90:21 neighborhoods 17:25 97:7 never 10:17 48:13 63:24 85:4,6,10,15 new 1:1,4,6 4:11 5:7 9:17 12:9 15:4,13 19:3 27:24 35:15 42:25 45:9 46:16 57:9,18 59:6 64:19 64:19 67:5 70:11,14 75:17,21 90:20 96:13,13,14,17 106:4 Newark 71:12,19,20 newer 22:24 60:5 newest 28:2 newspapers 100:18 105:2 NexGen 42:24 55:2 **night** 9:19 15:5,12,14 15:19,23 16:4,8 90:12,15 nighttime 16:18,21 nine 80:22 NIRS 41:17 44:7,8 nitrogen 38:14 noise 9:17,18 10:12 12:20 13:16 14:21 15:5,7,18,20 16:9,18 16:21 18:15 19:5,11

19:11,20 20:19,23

25:19,21,24 26:2,4 26:12,14 27:2,6,9,21 28:14 29:2 30:7.8.11 30:16 32:21 33:2,5 35:8,17,21 36:9,18 37:7,8,12 39:5 40:15 40:16 41:3,7,8,9,9 41:16,16,17 42:10 42:20 43:9,16,21 44:5,16,17 45:3,24 46:4,5,19,21 49:8 50:5 53:2,8,14 54:6 54:10,23 55:6,14,17 55:22,25 56:8,11,16 58:19 62:2,4,20 63:4 63:20 64:11,12 65:19 71:11 73:10 77:17 78:17,23 79:7 80:4 93:6,11,20 94:23 98:2,14,18,22 99:14,16,19 102:14 noises 11:24 44:4 78:25 noisier 62:12 noisy 61:22 62:12 63:2 non-attendance 81:14 nonsense 90:10 normal 73:2,6 74:16 normally 8:15 Norman 3:17 northeast 23:15 47:21 47:22 48:14,14 66:13 67:2,3,7,13,15 68:8 69:7 76:4 91:19 northern 69:21 northwest 77:4 **Notary** 106:3 note 27:23 38:7 46:5 48:20 notes 106:7 notice 103:12 104:24 105:5,13 notification 101:20 notifications 101:21 notified 85:13 **nozzle** 35:16 number 9:16 10:15 11:23 19:23 24:16 24:20 44:14 55:25 59:18,21 70:17 71:18 74:5 77:25 78:2 86:16 91:12 94:5,7,12,21 102:15 102:18,19,22 103:13 103:17.20.21.23 **numbers** 99:19

NYCAR 67:3 81:16 85:6 89:10 0 o'clock 15:19,22 16:4 **O'Connor** 7:6,6 66:23 66:23 74:12 75:3 78:13 obsolete 49:16 obtain 80:9 85:23 **obvious** 46:2,3 obviously 17:4 25:20 30:23 32:5 33:12 55:8 occurred 57:17 **occurrence** 94:13,14 ocean 68:21 October 57:10 67:24 72:11 89:12,15 100:15 104:13 105:15,18 offering 31:14 office 4:25 5:3 7:14 8:18 40:11,14 48:21 61:10 64:17 77:12 94:23 official 21:24 57:5 82:11 105:6,8 officially 104:12 officials 10:4 101:23 offline 97:2 offshore 68:19,23 Okay 19:21 21:16 50:23 71:24 103:25 105:16 old 53:11 58:23,23 Once 79:19 105:4 one-and-a-half 16:6 63:7 one-shot 58:17 ones 33:9 83:20 ongoing 51:12,15 open 36:7 47:6 90:2 operable 17:20 operate 67:21 71:20 72:13 84:6 92:24 operated 31:12 operating 72:14 operation 26:18 35:25 45:25 56:12,13 70:14 77:9 operational 50:14 55:16 91:8 operations 26:20 27:20 55:24 58:22

65:15 67:19,20,23 operator 99:17 opinion 11:15 89:3 opportunities 14:19 55:17 opportunity 46:22 opposed 25:10 56:6 option 84:13 92:15 options 28:6 92:12 order 26:9 31:12 82:9 orders 64:5 organizations 42:22 **Orr** 3:8 4:16,16 outlined 96:16 outputs 44:11 outside 8:22 42:9 overall 16:7 overcome 32:22 overnight 91:12 oversees 68:24 ownership 11:19 oxide 38:14

Р

P 2:1,1 3:1,1 **p.m** 12:3,4,8,12,12 17:22 105:19 **PA** 99:8 package 64:13 pages 21:23,25 paper 22:5 papers 81:11 pardon 100:22 **Paris** 9:6 part 7:25 14:3,4 22:22 22:22 23:2,12 25:4,5 36:4.16 43:20 49:19 56:24 57:6 58:14,17 67:25 73:12 76:3,4 93:20 98:19 participate 82:6 particular 59:25 69:2 71:23 75:5 91:17 93:23 98:7 99:25 particularly 70:14 parties 64:8 partners 67:14 partnership 28:15,16 34:7 40:8 parts 31:25 pass 14:25 passed 14:2 passes 19:4 passing 13:12 path 91:2 Patrick 3:13 56:15

88:10 89:25

pattern 91:24 patterns 48:8 Paul 6:21 pay 32:15 90:22 peace 90:24 penalize 12:2 penalized 15:25 16:14 penalties 12:14 penalty 12:5,6,11 26:22 pending 14:8 penetrate 27:25 penetration 60:17 people 11:5 16:2 18:2 24:3 25:16 32:15 33:20 49:16 80:7 81:21 82:13,25 89:19 90:22 91:10 93:18 102:16,18,22 103:8,21 104:3,20 percent 28:17,19,20 38:11 39:20 52:8,10 66:20,22 74:24 percentage 74:3,10,17 performance 11:3 41:4 43:22,25 45:14 70:8 period 16:5 18:3 40:21 90:3 104:10,20 105:6 periods 92:11 permanent 98:25 permeate 64:20 permeating 60:8 person 23:16 94:16 perspective 31:4,5 78:16 phase 29:20,22,25,25 30:2,2 32:5,8,13,19 34:9,10,10,18 36:16 39:6,10,12,14 65:13 68:2 phases 29:18,19 Philippa 2:15 5:11 83:6 Philippa's 86:8 **phone** 80:6 94:12 phonetic 5:22 6:9 9:21 13:7 pick 70:6 place 56:19 84:16 100:13,15 placed 23:21 **Plains** 68:4 70:5 plan 43:7 99:10 plane 52:4 61:23 91:2 93:4 94:14

planes 32:24 60:7,8 61:16 62:12,12,15 62:17 64:19.22 77:20 90:17 91:4 95:17 planning 14:15 42:15 plans 98:19 platform 14:21 17:4 please 8:25 21:11 66:17 89:23 98:8 102:4,7 103:12 plus 66:20,22 point 11:5,5 22:10 45:4 52:25 66:12 77:5 82:5,7 86:8,9 87:18,19 88:3 93:23 pointing 62:22 policy 41:22 42:17 44:9 87:5 politely 8:25 poll 82:22 polluting 52:18 pollution 38:14 51:25 52:14,20 pontificating 101:15 pool 58:2 pops 54:12 population 17:21,24 populations 44:19 Port 1:1 6:3.5.25 8:8 11:10 14:2 58:3,25 67:12 93:4,8,10,12 93:24 95:7,9 96:5 99:8.16 101:6.22 102:13 104:23 portables 99:2 portion 69:12,20,21 position 46:20 possible 11:7 54:14 54:16,18 59:11 73:10 posted 101:6,10,20 104:23 potential 71:19 potentially 35:12 power 14:24 PowerPoint 66:6 PowerPoints 102:11 practical 63:22 **Pratt** 63:13 precedence 13:21 18:10 precisely 62:10 predictable 69:16 predominantly 68:20

69:17

preferred 56:24

preparation 79:16 present 15:10 32:20 90:14 presentation 9:22 23:6 24:7 33:22,25 47:8,11 56:21 64:15 77:13 79:23 presentations 22:14 president 5:5,10 6:13 8:11 49:5 72:6 85:8 85:13 president's 8:17 27:12 29:24 press 14:16 presuming 105:7 pretty 36:14 48:14 68:13 previous 16:5 30:12 33:8 **price** 16:12 primarily 70:5 primary 35:9 75:18 76:13 printed 22:2 prior 40:13 46:6 57:7 prioritize 11:20 priority 20:14 private 29:13 probably 77:4 90:19 105:11 problem 37:10 65:15 79:21 80:10 85:21 88:8 91:23 97:13 problems 37:11 93:17 procedure 72:14,19 73:2,3,6 75:2 86:2 procedures 55:16 68:10,12 71:5 79:4,6 Proceedings 4:1 5:1 6:1 7:1 8:1 9:1 10:1 11:1 12:1 13:1 14:1 15:1 16:1 17:1 18:1 19:1 20:1 21:1 22:1 23:1 24:1 25:1 26:1 27:1 28:1 29:1 30:1 31:1 32:1 33:1 34:1 35:1 36:1 37:1 38:1 39:1 40:1 41:1 42:1 43:1 44:1 45:1 46:1 47:1 48:1 49:1 50:1 51:1 52:1 53:1 54:1 55:1 56:1 57:1 58:1 59:1 60:1 61:1 62:1 63:1 64:1 65:1 66:1 67:1 68:1 69:1 70:1 71:1 72:1 73:1 74:1 75:1 76:1 77:1 78:1

79:1 80:1 81:1 82:1 83:1 84:1 85:1 86:1 87:1 88:1 89:1 90:1 91:1 92:1 93:1 94:1 95:1 96:1 97:1 98:1 99:1 100:1 101:1 102:1 103:1 104:1 105:1 process 20:12 42:20 54:25 65:24 99:22 processes 58:15 produced 25:25 27:10 producing 32:25 production 33:8 products 28:22 **Professional** 5:8 proficient 11:4 program 24:19,21 25:14 28:12,12,14 29:3,17 30:3 32:5,8 33:6 34:6,24 38:17 40:2,7 41:23 42:5 43:20 47:18 50:15 50:22 51:3 52:7 56:3 58:20 59:12.14 62:19 64:4,9,24 programs 31:13 43:3 project 23:16 34:19 67:8 100:11 101:14 projects 91:12 prop 60:20 properly 17:19 89:20 proposal 17:3 propose 14:14 protection 42:23 **provide** 24:7 50:17 64:25 101:4,12 provided 104:16 provides 35:6 **providing** 63:16 71:7 provision 84:21 **public** 64:3 71:8 88:22 90:3 93:2 100:14 104:14 106:4 public/private 28:15 40:8 published 38:25 71:5 100:18 105:5,13 punish 91:4 **purpose** 59:25 67:15 pursuant 13:18 pushing 72:19 put 17:23 28:17,18 39:9 65:8,17,25 78:23 87:22 89:5,23 96:8.20

puts 28:19

1

Page 115

putting 37:22 93:16	realize 105:10 realized 41:10
	really 11:14,19,20
quality 11:12,21 12:20	43:11 45:5 46:21
30:25 42:11	53:22 59:9 65:24
quantity 54:25 55:6	79:22 80:12 90:22
Queens 5:5,10,20 8:17	90:23 97:3
17:2 47:21,22 48:14	reason 16:16 19:6
72:6 85:9 93:18	53:7 60:11 74:25
100:19 105:2,11	75:4
question 14:2 15:9	reauthorization 89:3
18:13 19:3 32:4	recall 57:6
33:23 42:3 47:16	receive 96:11
49:10,25 50:12	received 64:4 77:24
52:22 54:21 56:16	receptive 13:18 17:14
56:18 60:3,11 61:17	recognize 93:21 recommendation
62:2,10 64:15 72:7	81:23
82:21 83:7 87:8 93:3	recommendations
97:20	81:15
questions 16:23 19:25 25:4 33:21,22 47:2,7	record 57:5 87:16
47:14 49:14 66:8,10	recorded 15:21
72:3,4 83:21 91:8	red 93:16 95:13
quick 49:25 54:21	redesign 34:19 68:20
100:9	reduce 29:2 36:18
quickly 4:6 104:8	37:6 38:13 54:23
quiet 15:25 62:16	55:14,22 61:10
90:25	65:19 71:6 79:7
quieter 28:7 52:17	reduced 30:25 45:24
55:5 62:15,18,18	46:21 61:16
Quietskies.net 5:18	reduces 70:16
quite 25:20 37:20 62:9	reducing 30:7 54:4
90:9 92:4,11	56:11 62:20 71:6
90:9 92:4,11 quorum 21:20 22:11	56:11 62:20 71:6 77:17
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9	56:11 62:20 71:6 77:17 reduction 30:8,9,10
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1 Ra 12:25 21:5	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2 102:14
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1 Ra 12:25 21:5 Raida 2:10 6:22	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2 102:14 regional 41:8,17
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1 Ra 12:25 21:5	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2 102:14 regional 41:8,17 regions 42:12
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1 Ra 12:25 21:5 Raida 2:10 6:22 raise 66:17	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2 102:14 regional 41:8,17 regions 42:12 registered 86:5 99:21
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1 Ra 12:25 21:5 Raida 2:10 6:22 raise 66:17 Ralph 2:21 6:25 67:11	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2 102:14 regional 41:8,17 regions 42:12 registered 86:5 99:21 regular 83:17
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1 Ra 12:25 21:5 Raida 2:10 6:22 raise 66:17 Ralph 2:21 6:25 67:11 69:25 91:7 rapid 10:24 rated 44:17	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2 102:14 regional 41:8,17 regions 42:12 registered 86:5 99:21 regular 83:17 regularize 89:8
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1 Ra 12:25 21:5 Raida 2:10 6:22 raise 66:17 Ralph 2:21 6:25 67:11 69:25 91:7 rapid 10:24 rated 44:17 rationed 27:5	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2 102:14 regional 41:8,17 regions 42:12 registered 86:5 99:21 regular 83:17 regularize 89:8 regulation 58:18
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1 Ra 12:25 21:5 Raida 2:10 6:22 raise 66:17 Ralph 2:21 6:25 67:11 69:25 91:7 rapid 10:24 rated 44:17 rationed 27:5 RDA 33:13	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2 102:14 regional 41:8,17 regions 42:12 registered 86:5 99:21 regular 83:17 regularize 89:8 regulation 58:18 regulatory 40:18
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1 Ra 12:25 21:5 Raida 2:10 6:22 raise 66:17 Ralph 2:21 6:25 67:11 69:25 91:7 rapid 10:24 rated 44:17 rationed 27:5 RDA 33:13 reach 13:4 48:6 96:14	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2 102:14 regional 41:8,17 regions 42:12 registered 86:5 99:21 regular 83:17 regularize 89:8 regulation 58:18 regulatory 40:18 reiterating 59:17
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1 Ra 12:25 21:5 Raida 2:10 6:22 raise 66:17 Ralph 2:21 6:25 67:11 69:25 91:7 rapid 10:24 rated 44:17 rationed 27:5 RDA 33:13 reach 13:4 48:6 96:14 read 22:6 92:19	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2 102:14 regional 41:8,17 regions 42:12 registered 86:5 99:21 regular 83:17 regularize 89:8 regulation 58:18 regulatory 40:18 reiterating 59:17 relates 56:16
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1 Ra 12:25 21:5 Raida 2:10 6:22 raise 66:17 Ralph 2:21 6:25 67:11 69:25 91:7 rapid 10:24 rated 44:17 rationed 27:5 RDA 33:13 reach 13:4 48:6 96:14 read 22:6 92:19 reading 72:10	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2 102:14 regional 41:8,17 regions 42:12 registered 86:5 99:21 regular 83:17 regularize 89:8 regulation 58:18 regulatory 40:18 reiterating 59:17 relates 56:16 Relations 6:4
90:9 92:4,11 quorum 21:20 22:11 66:19 79:20,22 80:9 82:3 83:23,25 84:7 84:15,25 85:20,23 86:16 87:20,22 88:4 88:5 90:2,10 R R 2:1 3:1 Ra 12:25 21:5 Raida 2:10 6:22 raise 66:17 Ralph 2:21 6:25 67:11 69:25 91:7 rapid 10:24 rated 44:17 rationed 27:5 RDA 33:13 reach 13:4 48:6 96:14 read 22:6 92:19	56:11 62:20 71:6 77:17 reduction 30:8,9,10 30:16 32:22 33:3,5 35:15 38:12 52:9,10 53:2,8 73:8 reductions 36:4 54:6 55:18 referencing 96:17 refocus 73:9 regarding 44:24 89:2 102:14 regional 41:8,17 regions 42:12 registered 86:5 99:21 regular 83:17 regularize 89:8 regulation 58:18 regulatory 40:18 reiterating 59:17 relates 56:16

remains 46:4 61:14 remember 57:10 78:21 remind 79:9 reminder 27:11 **remove** 85:17 removed 85:18 repair 101:14 repeat 31:24 repeatedly 59:2 replace 41:13 replaced 63:3 replaces 41:20 replacing 63:6 report 39:2,7,9 49:23 93:10 96:8 103:4 Reporter 1:12 reporting 1:11,25 97:5 reports 93:24,25 96:10 103:3,13 105:8 represent 4:14 78:3 representative 7:19 76:17 representatives 10:4 representing 4:18 5:5 6:8,12,16,21,23 49:5 56:15 72:6 request 23:21 97:24 102:3 require 42:17 85:20 requirement 26:17 36:13 82:2 requirements 26:10 27:3 36:11 requires 44:10 research 24:19 41:21 77:18 78:19.20 79:10,12 93:13 94:4 94:24 95:9 96:22 97:25 98:7 researched 96:12 researchers 55:15 resident 5:22 90:5 residents 10:5 residents' 10:11 resolution 14:25 resolve 71:22 resolved 71:23 resource 55:10 resources 55:9 respectful 40:4 respectfully 51:18 respond 50:16 89:19 response 17:9,11 responsibilities 24:15 40:12

rely 58:24 102:17

responsibility 24:18 40:14 rest 16:13 resting 16:2 restroom 8:23 restrooms 8:21 result 35:21 39:13 resulted 58:13 results 23:11 49:17 59:22 61:7 retroactive 87:4,6 retrofitted 64:21 65:2 65:10.21 review 42:16 49:24 96:7 102:12 reviewing 81:6 revolutionary 34:12 37:22 rewarding 10:24 rhyme 74:25 75:4 **Rice** 7:19 **Rice's** 64:17 77:12 Richards 6:17 Ricki 6:9 right 9:15 11:16 12:4 15:16 19:13 22:8 23:19 28:4 30:16 31:18 35:25 39:9 48:19 60:12.14 84:15 91:3 97:14 100:12 101:3 **rip** 65:25 ripples 78:8 road 39:18 Rockaways 4:17 101:18 Rogers 2:7 7:16 roll 56:19 77:3 **Rolls** 63:13 **Ron** 5:7 9:24 20:10,21 **room** 4:7 8:15,18 **ROSE** 1:11,25 Rosedale 101:19 Roslyn 5:23 90:5,20 91:21 rotation 91:22 roughly 30:4 roundtable 1:4 4:5,11 14:17 21:10,19 57:20 81:5 88:13,15 88:16,19 89:11,17 100:25 roundtables 88:14 route 69:21 70:4 routes 68:5,5 69:8,14 69:23 70:11.17 73:4

row 47:25 81:25 83:13 86:12.19.21 **Rovce** 63:13 **RSVP** 80:7 rule 99:14,16 rules 73:15 83:23 rumble 36:23 run 70:18,19 running 67:10 runway 71:4,13 72:16 75:24 76:3,4 77:7 91:11 100:11,12 103:18 runways 91:14,22 101:13 **RY** 71:19

S S 2:1 3:1 safe 91:14 92:24 **safety** 26:11 **SAGÉ** 41:19 San 97:25 save 22:5 saved 39:17 **saw** 55:19 saying 52:25 55:12 63:10 72:21 73:7,22 82:4 84:24 86:19 88:2 97:16 says 21:18 48:6 scale 17:6,20 scales 17:5 scaling 17:8 scene 27:13 Schaner 2:23 5:17,17 15:6.16 16:12 18:18 18:21 schedule 58:14 89:9 scheduled 67:20.21 Schreiber 2:5 4:2.4 8:2,6 9:12 19:2,3,21 20:3,25 22:2 79:15 84:11,14,22 85:14 88:9,12 97:11,16 Schumer 89:2 science 55:20 Sciences 37:14 scientific 51:16 66:25 scientist 23:24 24:4 24:16 49:7 scientists 24:14 scope 68:9 101:12 screen 26:25 30:10 sea 91:25 95:16 season 70:15 second 22:19 25:5

realization 41:6

75:5 78:15

83:7

Page 116

29:20 34:10 65:13
70:23 81:14 86:6
98:19
secondly 21:12 89:6
seconds 90:19
section 13:19 81:8
88:21
sector 29:13
see 27:5 32:3 33:15
34:23 48:10,11
51:22,24 52:3,4 60:9
61:23 63:15 64:18
70:9 71:10 72:7
74:13 76:10,19,21
77:7 81:7 96:7,15
97:3 101:25 103:16
103:20
seeing 28:22
seen 33:10 73:24
segregations 69:22
select 33:11
senate 13:3
Senator 6:8,23 64:16
Senators 88:25
send 21:21 83:15
88:24 99:6,7 100:20 100:23 101:5 103:4
100:23 101:5 103:4
sense 5:20 22:7 93:4
sensitive 84:20
sent 22:5 80:6 86:4
98:23,24 99:3
separate 15:4 16:19
50:7 69:14 88:14
99:22
separately 53:16
separation 92:22,22
September 1:5
sequencing 59:5
series 57:12 58:10
service 31:8,9 38:3
services 7:7 67:9
session 13:14,19
20:15
sessions 100:14,24
sessions 100:14,24 101:11
101:11
101:11 set 26:15,19 29:17
101:11 set 26:15,19 29:17 46:16 50:14 65:23
101:11 set 26:15,19 29:17 46:16 50:14 65:23 74:2
101:11 set 26:15,19 29:17 46:16 50:14 65:23 74:2 setting 42:20 50:20
101:11 set 26:15,19 29:17 46:16 50:14 65:23 74:2 setting 42:20 50:20 setup 50:15 66:14
101:11 set 26:15,19 29:17 46:16 50:14 65:23 74:2 setting 42:20 50:20 setup 50:15 66:14
101:11 set 26:15,19 29:17 46:16 50:14 65:23 74:2 setting 42:20 50:20 setup 50:15 66:14 seven 15:18,23 16:3,8
101:11 set 26:15,19 29:17 46:16 50:14 65:23 74:2 setting 42:20 50:20 setup 50:15 66:14 seven 15:18,23 16:3,8 16:9 17:22
101:11 set 26:15,19 29:17 46:16 50:14 65:23 74:2 setting 42:20 50:20 setup 50:15 66:14 seven 15:18,23 16:3,8 16:9 17:22 severe 70:15
101:11 set 26:15,19 29:17 46:16 50:14 65:23 74:2 setting 42:20 50:20 setup 50:15 66:14 seven 15:18,23 16:3,8 16:9 17:22 severe 70:15 severely 17:21
101:11 set 26:15,19 29:17 46:16 50:14 65:23 74:2 setting 42:20 50:20 setup 50:15 66:14 seven 15:18,23 16:3,8 16:9 17:22 severe 70:15 severely 17:21 Sharina 3:4 9:7
101:11 set 26:15,19 29:17 46:16 50:14 65:23 74:2 setting 42:20 50:20 setup 50:15 66:14 seven 15:18,23 16:3,8 16:9 17:22 severe 70:15 severely 17:21
101:11 set 26:15,19 29:17 46:16 50:14 65:23 74:2 setting 42:20 50:20 setup 50:15 66:14 seven 15:18,23 16:3,8 16:9 17:22 severe 70:15 severely 17:21 Sharina 3:4 9:7

- h:ft 40.0
shift 40:6
shore 78:3 short 66:22 80:6
show 29:7 82:23
103:16
showed 30:12 54:14
54:15 56:21 60:11
shown 30:10 32:12,14 33:8 34:8 35:2 39:8
shows 26:25
Shyer 9:21 side 54:3 70:10 87:21
sight 11:8
signed 21:12 72:11
significant 12:19
significantly 56:22
94:8
similar 18:13 20:16
34:18 91:23
simpler 101:8
simply 82:10
simulated 15:22
simulating 17:4
simultaneously 42:11
72:9
single 26:18 38:10
48:3 62:20 94:13,14
94:19
sit 21:13
site 76:24
sitting 8:7 21:16 32:10
situation 16:24 90:11
six 72:12 95:19,20
size 61:13,18
skies 60:9 62:18
skin 28:23
sky 55:4,6 56:7,9
sleep 90:14
slide 25:13 33:9 45:23
slides 24:25 34:20
47:13
slot 12:6
small 11:17
smaller 63:2,7
Smith 7:22,22
smooth 53:22
Solomon 48:6
solution 64:12
solutions 55:22 56:4
solve 37:9
somebody 8:3 93:16
soon 54:11 57:17 59:11
soot 51:23
sorry 100:8 104:7 sorts 102:25
sorts 102:25 sound 12:2 44:24
SOUTIO 12.2 44.24

61:11,15 source 46:16 55:14 sources 26:13 44:3 53:9,14 south 75:22 76:5 78:3 91:18 southeast 91:18 southern 69:11,20 southwest 75:22 76:6 space 42:15 65:7 spaces 42:14 speak 14:20 61:6 78:5 78:12 speaker 13:7 47:15 48:24 60:3 73:12 83:22 85:12 87:3,10 87:24 93:3 94:3,10
94:25 95:4,11 97:6 97:23 98:10 speaking 23:18 speaks 58:18 specifically 35:8 43:8 56:6 57:16 speed 45:17 76:25 spend 64:2 spending 25:9 spent 32:6 52:12 spoke 23:23 24:2 77:15
sponsors 12:25 sponsorship 21:5 spray 65:16 spring/summer 77:9 Stacey 98:11 100:6 Stacy 2:24 6:3 stage 30:13 32:25 33:16,17 36:10,12 stages 27:2
stakeholders 101:24 stand 24:12 standard 26:3,4,9 42:19 50:20 72:14 standards 41:2 42:21 standpoints 53:7 start 58:20 59:11 104:19 started 21:11 23:5
57:7,19 starts 105:12 state 6:8,23 9:18 13:3 13:22,23 75:9 101:14 106:4 stated 72:12 statement 51:4,8 72:23 States 42:9 69:10 Stavisky 6:24

```
stay 58:12
stayed 75:12
stenographic 106:6
step 18:6
Stephanie 6:15
steps 80:16
Steve 13:5 24:9 47:4
Steven 2:17 7:8 23:16
 23:17 66:9
Stewart 78:10
stop 25:4 27:14
straight 15:19 16:9
straw 31:6 82:22
strides 54:3
strongly 83:5 101:17
structure 58:5
studies 16:5 22:23
  56:25 57:6,9,18
  78:11,14
study 7:25 22:22 23:3
  23:12 49:17
studying 78:6
stuff 10:22 79:24 92:7
subcommittee 67:6
subject 71:2
submissions 38:12
submit 104:15
subsequently 43:10
substantial 36:11
  58:14
subtract 86:15
success 36:14
successful 38:13
suffering 83:16
Suffolk 93:19
suggestion 33:20
suit 13:24
summertime 75:21
Suozzi 7:15
superior 56:22
support 12:22 13:4,7
  14:15 20:21 71:3
supporting 58:4 89:4
supposed 49:13 85:9
  104:21
sure 11:11 15:8 20:10
  20:15 21:11 34:3
  49:13 57:13 61:25
  62:9 66:10 78:16
  97:20
survey 49:8,12
Susan 2:9 5:4 10:14 49:4 72:5
suspend 86:2
suspended 81:25 82:4
```

83:21 86:7,14,15

suspension 82:24

03.1
Suzanne 3:25 6:20
Swisher 2:11 5:9,9
8:17
switched 23:9
system 17:15,16 18:5
18:8,9 34:15 53:18
96:17
T
table 8:7 12:23 21:16
table 0.7 12.20 21.10
tact 57:19
tactical 68:11
Tai 2:13
take 11:19 13:9 17:3,7
take 11.19 13.9 17.3,7
18:6 20:17 25:4
30:11 33:21 47:4
56:19 65:6 70:11
72:2 76:9 101:8
102:5
take-off 43:23 45:15
lake-011 43.23 43.13
45:16,18 62:5
taken 10:6 63:9
takeoff 36:24
takes 26:8 27:24
talk 14:21 24:11,22,23
25:13,15 34:20
23.13,13.34.20
46:23 51:14 57:14
57:15 97:2 100:2,7
talked 54:22 59:18
75:6
talking 63:19 64:17,18
89:13 98:25
talks 49:2
Tamburra 2:21 6:25
6:25 67:12 69:25
70.0 70.00 75.40
70:2 72:22 75:16
76:23 91:7,7 92:21
target 74:11
taxes 90:23
TBD 32:19
teacher 61:9
Tech 38:19,20
16011 30. 19,20
technical 24:5 57:22
65:14 90:8
Technically 83:24
1 6 cmile any 05.24
technological 53:7
technologies 28:25
29:7,12,14 31:7,9,18
25.7, 12, 17 01.7,0, 10
35:4,6,8 37:25 38:4
20.6 7 24 20.5 7 40

38:6,7,21 39:5,7,10

39:13,14,24 40:10 47:17 50:2,17 61:10

technology 27:22 28:8

30:6,18 31:12,16

34:11,14,21 35:22

61:19 64:25

37:3,9,24 43:2 46:14 50:10 51:12.16 52:2 52:6 54:11 55:3 60:4 60:5,18 63:18 64:19 64:21 66:2 68:12 77:15 tell 23:18 30:15 38:5 63:24 90:6 ten 12:6 15:24 16:8,9 17:22 66:22 74:23 tendency 18:22 **Tennis** 47:24 70:25 72:10,18 73:24 74:8 74:23 Teresa 2:13 terms 12:19 26:16 63:15 94:4 Terrence 3:24 territory 17:7 test 29:7 36:8 70:20 tested 70:20 Teterboro 78:10 Teterboro/White 68:4 70:5 thank 4:3 8:16,20 9:5 10:2,2 13:9 18:24 20:25 21:2,4,5,8 23:20 24:9 34:5 46:24 50:23 61:8 66:4 71:24 79:16 100:3 104:6 105:16 105:17 thanking 10:8 Thanks 24:9 69:25 thing 4:6 12:23 25:7 30:17,20 38:15 40:11 45:3 54:8 64:7 65:21 76:23 77:10 79:17 83:14 94:20 104:8,21 things 11:17 24:11,16 24:21 50:13 53:18 54:25 59:19,24 60:24 65:10,11,20 65:23 79:8,11 88:23 102:25 103:6 think 10:18,20 15:2 17:12 18:5,13 35:5 46:20 47:3 52:9,15 54:9 64:10 66:19 79:3.5 80:13 86:23 86:25 94:20 98:8,22 101:7 thinking 53:25 55:2 79:11 88:6 third 29:22 86:13 thirty 17:17

Thomas 3:10 thought 36:13 54:24 67:4 thousand 103:5 three 12:13 16:13 22:9 32:13,19 47:25 72:9 72:15 73:2,8,13 74:8 74:14 76:15 80:19 three-hour 16:4 threw 98:5 thrust 37:21 43:24 45:16 thunderstorms 73:3 73:22 77:3 tied 57:21 time 10:6 12:5,14 15:25 18:3 22:7,13 27:5 36:19 40:4,4,21 46:13,25 48:18 58:8 58:11,16,21 59:20 60:22 67:21,24 70:19 74:3,11,24 77:19 81:11 82:13 84:20 88:4 90:6 91:24 97:22 103:2,5 timeline 60:6,6,23 times 8:23 73:24 75:20 92:6 today 10:16 27:20 61:9 68:14,15 72:25 today's 27:9 67:19 **Todd** 6:8 told 23:2 35:9 85:7 **Tom** 7:15.18 64:16 77:11 **tomorrow** 104:12 105:4 Tonia 1:12 106:3,11 tonight 10:7 70:16,24 77:2 80:9 **Tony** 6:23 tool 40:13,16,18 41:7 41:16,16,17,18,19 41:24 42:2 43:18 tools 41:7,8,8,9,12,14 41:20 68:11 top 27:16 50:6 total 64:12 touch 94:23 tough 19:25 town 7:20 8:3 9:11 54:20 91:3,4

trackers 48:11

traffic 7:7 73:5,15

Trade 105:10

training 35:11

transcript 21:22

transcription 106:6 transform 60:19 transition 58:15 transitioned 58:8 traveling 71:8 tremendous 54:3 trend 28:11 54:14 triple 17:24 true 28:15 88:9 try 8:25 46:12 55:21 67:19 71:22 89:7 trying 54:22 73:9 **Tuesday** 100:15 **tunnel** 36:8 turbo 35:23 turn 21:6 24:8 60:21 70:12 79:10 80:15 tweak 35:13 twin 62:21 two 17:5 21:18 25:22 25:22 26:7,22 29:25 30:3 32:8 34:18,20 39:10,12,14 48:16 53:14 55:9,11 62:22 65:13 73:16,18 74:22 76:9 78:2 80:5 80:18,19,21,25 81:24 83:13 86:3,12 86:19,20,21,22 87:11 88:13.18.23 90:15,16 100:14,23 type 95:8 types 25:22 43:23 44:10,11 typical 15:17 91:24 typically 70:7 75:21 77:5,6,8 U

93:9 undergoing 49:8 underlying 58:23 understand 15:8 16:11 44:20 48:4,9 56:3,7 73:21,23 76:12 86:11 95:8 96:24 97:12,18 102:9 104:3 understanding 17:13 46:19 55:20 73:10 88:3 understands 96:5 understood 13:17 undertaken 56:25 underway 57:20,25 58:8

unbelievable 90:10

unfortunately 79:20 91:16 92:2,17 **UNIDENTIFIED** 48:24 60:3 73:12 83:22 85:12 87:3,10,24 93:3 94:3,10,25 95:4 95:11 97:6,23 98:10 **unified** 45:13 unit 74:14 United 9:9 42:9 69:10 units 62:9 update 23:15 45:20 66:12,25 67:5 68:19 updated 44:24 59:14 67:2,5 updates 44:6 45:19 72:2 upgraded 44:23 **upper** 60:12,14 upset 102:21,24 urge 101:17 usage 76:24 use 9:20 14:20 17:16 23:3 25:24 35:15 42:13,18,19,23 59:3 61:4,9 64:22 70:10 70:25 71:10 72:8,15 72:21 73:6,9 75:4,24 75:25 76:2 98:14 99:6.9 useful 47:3 user 42:6 users 40:23 uses 40:21 71:4 usually 87:21 utilize 99:5 utilizing 96:19

Vallone 6:21 varies 62:4 75:20 variety 41:11 44:13 55:13 various 24:15 velocities 92:14 velocity 37:7 54:4 venue 88:5 version 45:8,9,10 59:4 versus 22:19 23:22 27:10 56:17 62:21 62:22 vested 28:21 **vetting** 13:15 violation 99:14,15 voice 61:9 vote 21:13,15 82:7,10 82:10,12,15,20,22

86:14 voted 80:11 votes 82:8 83:20

W

W 66:23 74:12 75:3 78:13 wait 33:23,24 45:15 48:25 waited 77:12 waiting 8:12 49:17 80:25 81:10,12 walk-through 25:3,5,7 want 4:3 8:16 13:10 19:19 20:7 21:9 23:5 27:11 33:20 40:6 49:6 53:15 57:14,16 60:25 71:10,24 72:21 75:11 79:15 79:17 82:6,16 86:22 88:23 91:5 95:22 97:3 102:13,16 103:20 104:5 105:17 wanted 8:14 49:18 89:5 96:24 100:10 103:10 wants 32:18,19 Warren 10:3 11:24 19:3 66:8 88:20 Washington 32:16 67:17 wasn't 21:24 56:20,23 87:24 watch 27:12 water 75:19 Watergate 27:16 way 17:23 19:16 25:17 26:3 51:19 59:5 64:20 82:18 83:23 85:22 101:9 103:6 wavs 53:21 we'll 23:19 57:15 66:9 81:7 we're 4:6 8:12 9:12,13 9:14,15 20:12,14 22:4,9,13 28:11,24 29:3,13,20,21 30:22 31:10 32:22 33:6 34:7 36:14,17 38:6 39:23 41:24 43:21 43:23,24 44:2 45:8 45:11,18 46:24 47:4

52:19 55:12,13,14

63:18 66:5,22 68:18

71:25 77:16 79:2,8

55:18,20 56:10

69:20 70:15,23

				Page 118
	1	1		
79:11,13 80:11 82:4	working 17:14 28:25	14,000 93:15	3A 45:10,11 59:6	
82:9 83:16 84:15	29:13 30:18,22	15 33:17 60:21 62:17	3A 45.10,11 59.0	
89:13 90:2 100:4	31:10 35:25 36:17	15 ,000 93:14	4	
	37:13 38:16 55:13	1 -		
we've 20:3 35:10,22		150 7:25 14:3,4 22:22	4 103:18 105:9	
36:5 38:15 43:2	55:15 65:14 69:6	22:23 23:3,12 56:25	4:30 90:13,16	
47:22 52:6 69:6 75:5	78:22	57:6 58:14,17		
78:21 79:4 92:15	workout 92:3	16 24:25	5	
weather 48:8 67:23	world 42:7 105:9	16,000 93:11,14	50 28:17,19,20 66:20	
68:3 70:15 74:19	worry 100:16	16th 100:15,21	66:22	
75:7 91:24 92:14	worse 10:19	17th 100:22	55 43:18	
web 47:13 48:11	worth 21:25	18 48:15	56 43:12	
website 35:2 43:4,5	worthiness 26:10	18,000 68:21 69:18		
47:10 93:11 96:20	wouldn't 14:10	1911 46:7	6	
101:7 104:24	write 33:24 100:16	1915 46:8	6 48:2	
Wednesday 89:14	written 46:6	1950's 60:15	60 38:11 52:8,10 90:19	
Wednesdays 89:13		1960's 27:11	00 00.11 02.0,10 00.10	
weeks 47:25 74:6,9,14	X	1970's 26:4,25 27:18	7	
74:21 76:15		36:21 43:14 51:20		
weight 43:24 62:5,6	Y	60:16	7:00 12:3,8,12	
Weiss 2:22 7:20,20	year 37:15 45:12	1978 40:17	737 28:5 38:10 45:21	
8:5,5 54:20,20 56:5	57:15,15 91:25	1982 75:17	52:5,7 65:6	
Wendy 7:6 66:23	100:13	1st 105:18	787 28:5	
69:25	years 10:9,20,23			
went 20:10 22:7 88:18	17:18,25 30:19 46:6	2	8	
90:14	46:9 60:21 61:22,23	2 35:14,17 72:11		
Whitestone 7:22	62:17 64:5 72:12	20 30:19 61:22,23	9	
47:24 48:16 74:4	75:19 78:23 88:17	2004 41:5	9,000 96:3	
75:13,14,18 76:7,10	88:18	2010 29:19	9:05 92:17	
76:11	York 1:4,6 4:11 5:8	2012 72:11	9:20 105:19	
Whitney 35:23 63:13	9:17 57:9 70:11,14	2014 57:10,16	90 90:19	
wide 78:6	75:17,21 90:21	2015 29:19 39:9 40:19	900 95:18	
widely 72:20	106:5	56:20 57:5,20,21,25		
wider 26:24 72:8 78:6	younger 63:21	2016 29:21		
Williams 2:14 3:7	Yvette 2:16 5:15	2017 67:24		
16:25,25 50:25,25	1 Vette 2.10 3.13	2018 1:5 69:3		
84:6,9,12	Z	2019 13:19 69:5		
willing 33:21		2020 29:21		
wind 36:8 75:7 76:25	zero 61:15	2021 29:22 67:25		
91:15 92:13		2025 29:23 39:19		
windows 31:11,15	0	2050 39:5,19 63:20		
winds 74:19 75:20,21		22 39:16 71:11,18		
76:5 77:3 91:16	1	75:24 76:4 92:8		
wing 65:7,9	1-800-825-3341 1:25	95:25 96:2,3		
wings 53:19	1.7 39:18	225 30:4		
woke 90:15	10 15:19,22 16:4 26:21	25 30:12 33:2,4		
won 57:12	62:17 [^]	26 1:5		
wonderful 27:13	10:00 12:4,8,12	28 57:10		
wondering 90:25	102 90:11	29 71:19		
word 41:22	107 46:9	29th 104:13 105:15		
words 58:19 80:23	11277 11:23	2D 45:10		
84:9	117 21:23,24	25 43. 10		
work 18:11 28:24 29:4	11th 67:3	3		
29:5 37:10 56:2,7	125 39:22			
67:11 71:21 79:22	13 17:2 39:20 51:2	30 61:22,23		
90:22 101:13 102:24	70:24 71:4 75:23	300 42:7 95:16		
worked 35:10,22 36:5	76:3,4 77:7 92:6,8	31 100:12		
93:5	100:12	31st 67:6		
1 00.0	14 4:17	35 17:17,25		
		I		