

2. Respondent Information

Please enter your contact information.

First Name

Donald

Last Name

Kiley

Title

Airport Operations Supervisor

Airport / Organization

Austin-Bergstrom International Airport

Email Address

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Phone Number

512 530-6362

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2010-2017	AUS is averaging 10-14% growth annually. A terminal expansion project is underway adding 9 additional gates and ramp space.
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please

check all that apply]

Other (please specify):: Growth of the City of Austin

Comments:

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

Yes

5. If the answer is Yes, please explain the conditions of this change:

Introduction of International Service

If the answer is No, please summarize in few words your airport mission.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	AUS has B787 service to LHR, B767 service to FRA and the European market is expanding.
Increase of flights frequency: e.g. more weekly/daily operations	X	
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations		
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	2
Operations and Management	3
Coordination with Airline Partners	3
Coordination with Regulatory Agency(ies)	3
Construction / Implementation	1
Financial / Capital Investments	1
Safety / Security	2
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

Taxiway improvements/design change due to new Aircraft Type

Need for new lighting system, and/or additional navigational equipment (NAVAIDS) in order to upgrade departure/approach procedures

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron (“Non-Movement Area”): [please check all that apply]

Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type

Passenger loading issues: need for new loading bridge and/or for bridge replacement

Additional remote parking positions and/or Remain Over Night parking

Issues related to GSE utilization and storage (e.g. shared-use equipment)

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Major Expansion of existing Passenger Terminal Building

Comments:

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Internal corridor space and passenger hold areas to handle the increased number of passenger disembarking.

Security screening checkpoints for departure passengers.

Outbound baggage handling system, from check-in to aircraft loading (e.g. screening, make-up area)

Inbound baggage handling system, from aircraft unloading to baggage claim. (e.g. baggage claim belt capacity)

Need for new international facility area; need for FIS/CBP expansion and additional equipment.

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.

**What elements on the Landside have required the main changes/adjustments?
[please check all that apply]**

Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).

Reconfiguration of the airport access roadway system and/or terminal curbside.

Issues and/or specific needs for taxi and TNC operations due to the increase of traffic at the airport.

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.	X	
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.	X	
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.	X	
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None		

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	A 640' X 450' area of the Cargo Apron was converted to temporary airport passenger parking during construction of new passenger parking facilities.
Yes for cargo operations:	
No	

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Good

Comments:

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

Yes

21.

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Good

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

22.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

Yes

23.

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment	X	
Terminal space and/or equipment	X	A building was leased and converted to a private company to what functions as "The South Terminal" for three airlines.
Apron space and/or Hardstands (Aircraft Parking Position)	X	Apron space was leased to the South Terminal operation.
Others, please specify:		

24. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

25. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

The City of Austin is and will enjoy the increased revenue from air travel.

16. Environmental Planning and Community Involvement

26. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

Yes

27. If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)	X	
Public Involvement Program (PIP)		
Airport Master Plan study	X	
Others, please specify:		

17. ACRP Synthesis Report

28. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Jennifer

Last Name

Williams

Title

Capital Manager

Airport / Organization

Austin Bergstrom International Airport

Email Address

jennifer.williams@austintexas.gov

Phone Number

7049755620

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2012-2017	Significant increase in passenger growth- 12% domestic and international growth
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Successful Air Service Development effort from the Airport

Airport approached by a new airline to start service
Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)
Comments: Austin has proven to be the choice airport for Central Texas.

5. **Change of Airport Mission**

4.
Would you say that your airport has changed its mission as a result of this change of activity?

No
If the answer is Yes, please explain the conditions of this change:
5. If the answer is No, please summarize in few words your airport mission.

The mission was to become the choice airport for Central Texas.

6. **Change of Airport Activity**

6.
What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	Airlines have up gauged across the board to handle increase in passengers.
Increase of flights frequency: e.g. more weekly/daily operations	X	
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations		
Other, please specify:		

7. **Impacts and Challenges due to Airport Activity Change**

7. **What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):**

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	
Operations and Management	
Coordination with Airline Partners	
Coordination with Regulatory Agency(ies)	
Construction / Implementation	3
Financial / Capital Investments	2
Safety / Security	
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

Taxiway improvements/design change due to new Aircraft Type

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron (“Non-Movement Area”): [please check all that apply]

Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type

Passenger loading issues: need for new loading bridge and/or for bridge replacement

Additional remote parking positions and/or Remain Over Night parking

Issues related to fueling operations (trucks/carts or fuel hydrant system)

Issues related to GSE utilization and storage (e.g. shared-use equipment)

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Construction of a New Passenger Terminal Building

Major Expansion of existing Passenger Terminal Building

Minor Modifications of existing Passenger Terminal Building

Comments: Addition of 9-gate expansion, building of new South Terminal with 3 additional gates, upgrading existing terminal with common use to maximize existing gates.

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Internal corridor space and passenger hold areas to handle the increased number of passenger disembarking.

Expansion of concession areas to serve the additional travelers and to help defray the costs of renovations.
 Security screening checkpoints for departure passengers.
 Check-in area: need for additional waiting space, need for additional conventional counters, self-service kiosks.
 Outbound baggage handling system, from check-in to aircraft loading (e.g. screening, make-up area)
 Inbound baggage handling system, from aircraft unloading to baggage claim. (e.g. baggage claim belt capacity)
 Need for new international facility area; need for FIS/CBP expansion and additional equipment.

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

N/A

9. Airport Access and Landside Needs

14.

**What elements on the Landside have required the main changes/adjustments?
 [please check all that apply]**

Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).
 Reconfiguration of the airport access roadway system and/or terminal curbside.
 Issues and/or specific needs for taxi and TNC operations due to the increase of traffic at the airport.
 Issues and/or specific needs for public transit due to the increase of traffic at the airport.

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None	X	

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	Temp gates
Yes for cargo operations:	
No	

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Satisfactory

Comments:

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

Yes

21.

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Excellent

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

22.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

Yes

23.

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment	X	
Terminal space and/or equipment	X	
Apron space and/or Hardstands (Aircraft Parking Position)	X	
Others, please specify:		

24. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

Yes

25. If the answer is Yes, can you please provide a high-level overview of the

types of agreement reached upon with the airline(s).

26. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

Increase in revenue

16. Environmental Planning and Community Involvement

27. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

Yes

28. If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)	X	
Public Involvement Program (PIP)	X	
Airport Master Plan study	X	
Others, please specify:		

17. ACRP Synthesis Report

29. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Chris

Last Name

Pollock

Title

Operations Supervisor

Airport / Organization

Columbus Regional Airport Authority (CMH/LCK)

Email Address

cpollock@columbusairports.com

Phone Number

6142395021

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2013,2014,2015,2016,2017	CMH is experiencing an increase in about 5% of passenger activity. LCK has had new service that has created 200% increases.
Significant decrease of passenger volume		
Significant increase of cargo activity	2014, 2015, 2016, 2017	LCK has had several new airlines start flying cargo internationally
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Successful Air Service Development effort from the Airport

Airport approached by a new airline to start service

Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)

Comments: Airport Authority has been aggressive in advertising the viability of the airports. Several millions of dollars of infrastructure has been invested in LCK.

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

No

If the answer is Yes, please explain the conditions of this change:

5. If the answer is No, please summarize in few words your airport mission.

The mission for several years has been "Connecting Ohio to the World". The Airport Authority has been working for years for these improvements.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	At LCK, we had to get a modification of standards for 747-8F operations, also major ramp rehab to accommodate the level of activity. CMH has been re-designing gate locations to accommodate larger aircraft and the phasing out of smaller 50 seat RJs.
Increase of flights frequency: e.g. more weekly/daily operations	X	The Authority has had to identify and create more overnight parking locations
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations		
Other, please specify:	X	CMH has gates and de-ice areas that were designed specific to the 50 seat RJ style aircraft. As those have been significantly phased out, we are in the process of redesigning those areas.

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	2
Operations and Management	3
Coordination with Airline Partners	
Coordination with Regulatory Agency(ies)	
Construction / Implementation	
Financial / Capital Investments	
Safety / Security	
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

New runway, runway extension or design changes due to new Aircraft Type

Taxiway improvements/design change due to new Aircraft Type

Need for new lighting system, and/or additional navigational equipment (NAVAIDS) in order to upgrade departure/approach procedures

Other, please specify: We have started a 3 year project that will make LCK ADGVI capable.

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type

Passenger loading issues: need for new loading bridge and/or for bridge replacement

Additional remote parking positions and/or Remain Over Night parking

Other, please specify:: de-icing locations have also been impacted.

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Minor Modifications of existing Passenger Terminal Building

Comments: CMH is in the process of designing a new terminal to accommodate the current and forecasted increase in passenger service.

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Security screening checkpoints for departure passengers.

Need for new international facility area; need for FIS/CBP expansion and additional equipment.

Other, please specify:: Jet-bridges are being added.

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

We completed a terminal renovation that excluded some areas that were not forecasted to be used, however, we had a new airline enter the market, and rehabbed the space. The area was "abandoned" only for a month or two.

9. Airport Access and Landside Needs

14.

What elements on the Landside have required the main changes/adjustments? [please check all that apply]

Issues and/or specific needs for taxi and TNC operations due to the increase of traffic at the airport.

Issues and/or specific needs for public transit due to the increase of traffic at the airport.

Other, please specify:: Additional staging area was created for TNCs.

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.	X	a new cargo terminal was created at LCK in 2015 and already has plans to expand.
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.	X	LCK airport owns the FBO, several new equipment purchases have been made to support the cargo activity.
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.	X	LCK airport owns the FBO, several new equipment purchases have been made to support the cargo activity
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None		

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	
Yes for cargo operations:	
No	no temporary facilities are being used.

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Excellent

Comments: There is a whole team that is devoted to airline relations. Additionally, regular meetings are hosted to keep everyone up to date.

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139

Operations and Certification process:

Yes

20.

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)	X	Additional de-icing locations were created.
Others, please specify:	X	Modification of standard for LCK to accommodate ADG VI aircraft.

21.

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Excellent

Comments: Columbus has a whole team devoted to the communication and coordination with the FAA ADO.

14. TSA 1542 Security Requirements

22.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

Yes

23.

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Excellent

Comments: We have a team designated to the communication and coordination with the TSA.

15. Airline Agreements, Costs, Revenues, and Benefits

24.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

Yes

25.

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment	X	
Terminal space and/or equipment	X	
Apron space and/or Hardstands (Aircraft Parking Position)	X	
Others, please specify:	X	We have had and continue to modify the leasing and operating agreement structure to ensure we meet the needs of the airline and the city.

26. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

Yes

27. If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

Public-private partnerships were created to offset costs of major construction projects with regards to our cargo operation.

28. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

Economic impact study shows the airports as major contributors to the number of jobs to the area. The airport is looked highly upon from members of the community.

16. Environmental Planning and Community Involvement

29. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

Yes

30. If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)	X	
Public Involvement Program (PIP)	X	
Airport Master Plan study	X	
Others, please specify:	X	

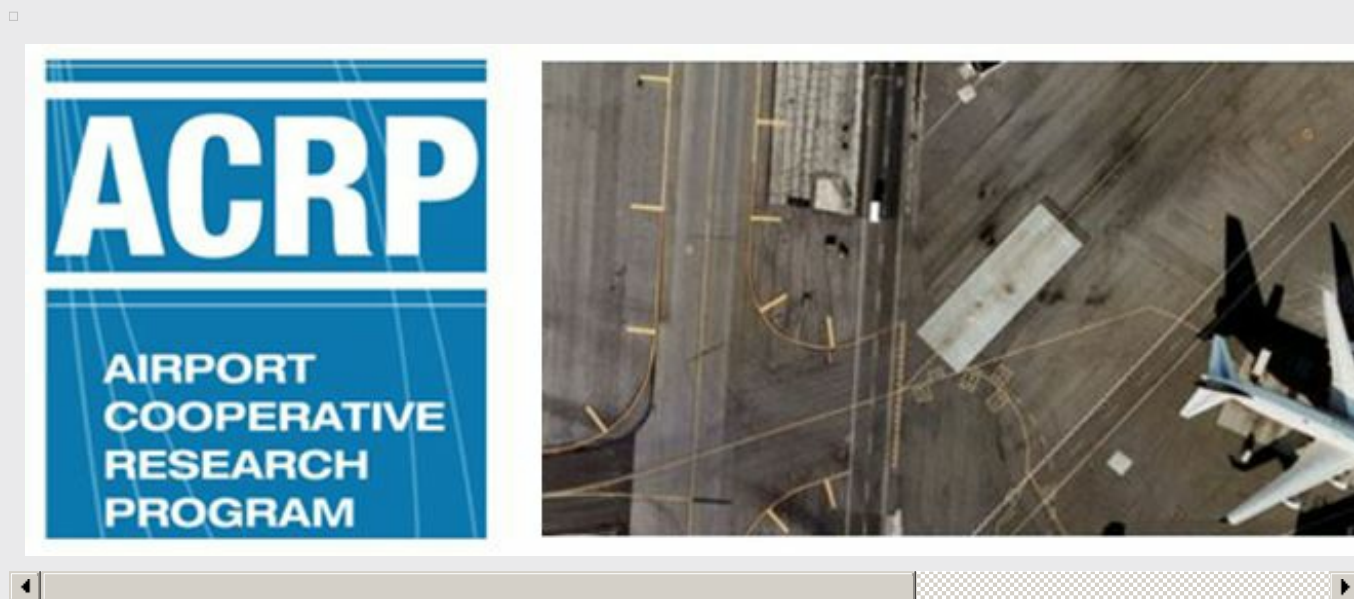
17. ACRP Synthesis Report

31. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

ACRP Project 11-03 Synthesis Topic 03-15 Airport Planning for Airline Upgauging

Welcome!



How Airports Plan for Changing Aircraft Capacity - The Effects of Upgauging

This questionnaire is part of the effort of ACRP Synthesis Topic 03-15 to gather information on how airports plan for changing aircraft capacity. We are interested in the experience and opinions of airports who have dealt with upgauging and/or loss of service in recent years. The survey will take approximately 15-20 minutes of your time, although it could take longer depending on your comments. These few minutes of your time will help us compile and disseminate what others in the industry are doing to adjust their operations due to upgauging.

If you are not the appropriate person at your airport to complete this survey, please forward it to the correct person. If the airport you are associated with has not experienced any major change of airline activity recently, your response may be short but it will still be very important to this study and its ultimate audience.

What is Airline "Upgauging"?

The term “upgauging” refers to an industry technique in which airlines increase capacity by adding seats on existing jets and replacing smaller planes with larger one. Upgauging requires that airports of all sizes make adjustments, with potential impacts felt on airside and landside facilities and operations. There is currently little information on comparative experiences or best practices to help airports with planning for airline upgauging, managing uncertainty related to traffic variability and making accommodations in maintaining flexibility to coordinate aircraft and passenger changes.

The final research report is envisioned to contain case study examples of selected airports but will not include the name of any individual person. No case study, however, will be published without the permission of the airport.

Thank you very much for participating in this survey!

Please complete and submit this survey questionnaire by **October 4th, 2017**.

If you have any questions, please do not hesitate to contact our Principal Investigator Denis Verdier, dverdier@dyconsultants.com, 917-250-3595, or Tom Helms, thelms@nas.edu, 703-8359191.

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QUESTIONNAIRE INSTRUCTIONS

1. To view and print the entire questionnaire, Click on the following link and print using "CTRL + P" [ACRP Synthesis 03-15 -Survey PDF](#)
2. To save your partial answers, or to forward a partially completed questionnaire to another party, click on the "Save and Continue Later" link in the upper right hand corner of your screen. A link to the partially completed questionnaire will be emailed to you from SurveyGizmo. To return to the questionnaire later, open the email from SurveyGizmo and click on the link. To invite a colleague to complete part of the survey, simply click on the "Save and Continue" link and enter your colleague's email address. Please note that the questionnaire can be saved and passed around multiple times, but respondents must use the link emailed from SurveyGizmo. We suggest using the “Save and Continue Later” feature if there will be more than 15 minutes of inactivity while the survey is opened, as some firewalls may terminate due to inactivity.
3. To view and print your answers before submitting the survey, click forward to the page following question 31. Print using “CTRL + P”.
4. To submit the survey, click on "Submit" on the last page.

Respondent Information

Please enter your contact information.

First Name *

Stephanie

Last Name *

McHenry

Title *

Assistant Director

Airport / Organization *

Dallas Love Field

Email Address *

stephanie.mchenry@dallascityhall.com

Phone Number

214-670-6149

Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

☒ Yes

☐ No

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2014-present	
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity		

Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

- ☐ Successful Air Service Development effort from the Airport
- ☐ Airport approached by a new airline to start service
- ☐ Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)
- ☐ Loss of service / Airline(s) ceasing operations at the Airport
- ☒ Other (please specify):

Repeal of the Wright Admendment

Comments

Increase was due to the repeal of the Wright Admendment in 2014. The repeal allowed air carriers to offer direct flights from Dallas Love Field to points throughout the United States.

Change of Airport Mission

4. Would you say that your airport has changed its mission as a result of this change of activity?

☒ Yes

☐ No

5. If the answer is Yes, please explain the conditions of this change:

☐ From non-commercial service (General Aviation) to commercial service

☐ Introduction of International Service

☐ Downgrade of Airport NPIAS Category/Role due to Loss of Service

☐ Focus on a different type of commercial service (e.g. from business to leisure travel), please explain:

☒ Other, please specify:

From a regional service provider
to a long haul service provider

6. If the answer is No, please summarize in few words your airport mission.

Change of Airport Activity

7. What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
Use of larger aircraft type	<input checked="" type="checkbox"/>	Air carriers have utilized larger aircraft to accomodate the increase in enplanements due to the repeal of the wright admendment in 2014.
Increase of flights frequency: e.g. more weekly/daily operations	<input checked="" type="checkbox"/>	Air carriers consistently try to maintain maximum efficiency of 10 turns per gate and have analyzed ways to increase the turns per gate in a safe and efficient manner to accomodate the increase in enplanements
Use of smaller aircraft type	<input type="checkbox"/>	
Decrease of flights frequency: e.g. less weekly/daily operations	<input type="checkbox"/>	
Other, please specify:	<input type="checkbox"/>	

Impacts and Challenges due to Airport Activity Change

8. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	<div> <div>1</div> <div>2</div> <div>3</div> </div>
Future Activity Assessment, Traffic Demand Uncertainty	<div> <div>1</div> <div>2</div> <div>3</div> </div>

Operations and Management



Coordination with Airline Partners



Coordination with Regulatory Agency(ies)



Construction / Implementation



Financial / Capital Investments



Safety / Security



Other (please specify in the Comments box)



Comments

Concession
Parking (Onsite garage/offsite parking)
Gate Seating
Baggage Handling System
Checkpoint Que

9. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

- ☐ New runway, runway extension or design changes due to new Aircraft Type
- ☐ Taxiway improvements/design change due to new Aircraft Type
- ☐ Need for new lighting system, and/or additional navigational equipment (NAVAIDS) in order to upgrade departure/approach procedures
- ☐ Need to upgrade departure/approach procedures, without additional equipment (e.g. obstruction mitigation or new GPS procedure)
- ☐ Needs related to the provision of Air Traffic Services
- ☒ Other, please specify

Movement area changes due to terminal reconfiguration

10. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

- ☐ Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type
- ☐ Passenger loading issues: need for new loading bridge and/or for bridge replacement
- ☒ Additional remote parking positions and/or Remain Over Night parking
- ☐ Issues related to fueling operations (trucks/carts or fuel hydrant system)
- ☐ Issues related to GSE utilization and storage (e.g. shared-use equipment)
- ☐ Other, please specify:

New gates and expansion of apron due to new terminal reconfiguration

Passenger Terminal Facility Needs

11. In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

- ☒ Construction of a New Passenger Terminal Building
- ☐ Major Expansion of existing Passenger Terminal Building
- ☐ Minor Modifications of existing Passenger Terminal Building
- ☐ Not applicable

Comments

12. In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

- ☒ Internal corridor space and passenger hold areas to handle the increased number of passenger disembarking.
- ☒ Expansion of concession areas to serve the additional travelers and to help defray the costs of renovations.
- ☒ Security screening checkpoints for departure passengers.
- ☒ Check-in area: need for additional waiting space, need for additional conventional counters, self-service kiosks.
- ☒ Outbound baggage handling system, from check-in to aircraft loading (e.g. screening, make-up area)
- ☒ Inbound baggage handling system, from aircraft unloading to baggage claim. (e.g. baggage claim belt capacity)
- ☐ Need for new international facility area; need for FIS/CBP expansion and additional equipment.
- ☒ Other, please specify:

Expansion of parking facility
- ☐ Not applicable

13. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

- ☐ Closing of the Passenger Terminal facility
- ☐ Preserving of the facility as it is (no major changes)
- ☐ Preserving of the existing space and adjustments made inside the terminal building (e.g. concourse space reconfiguration/retrofit)
- ☐ Other, please explain:

- ☒ Not applicable

14. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

N/A

Airport Access and Landside Needs

15. What elements on the Landside have required the main changes/adjustments? [please check all that apply]

- ☒ Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).
- ☒ Reconfiguration of the airport access roadway system and/or terminal curbside.
- ☒ Issues and/or specific needs for taxi and TNC operations due to the increase of traffic at the airport.
- ☒ Issues and/or specific needs for public transit due to the increase of traffic at the airport.
- ☐ Other, please specify:

Cargo Facility/Operations Impacts

16. Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
Need for a new cargo facility or expansion of existing facility.	<input type="checkbox"/>	<input type="text"/>
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.	<input type="checkbox"/>	<input type="text"/>
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.	<input type="checkbox"/>	<input type="text"/>
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).	<input type="checkbox"/>	<input type="text"/>
Others, please specify:	<input type="checkbox"/>	<input type="text"/>
None	<input checked="" type="checkbox"/>	<input type="text"/>

Use of Temporary Facility

17. Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	<input type="text" value="Temporary Parking Facilities"/>
Yes for cargo operations:	<input type="text"/>
No	<input type="text"/>

Relationship/Communication with Airline Partners

18. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

- ☒ Yes
- ☐ No

19. How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

- ☐ Excellent
- ☒ Good
- ☐ Satisfactory
- ☐ Poor

Comments

Part 139 Requirements

20. Did the change of activity at your airport require modifications of your Part 139

Operations and Certification process:

- ☒ Yes
- ☐ No

21. If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
Change of Airport Part 139 Class	<input type="checkbox"/>	
Major changes in Airport Certification Manual (ACM)	<input type="checkbox"/>	
Provision of fuel service	<input type="checkbox"/>	
Aircraft Rescue and Fire Fighting (ARFF) operations	<input type="checkbox"/>	
Major changes in Airport Emergency Plan (AEP)	<input type="checkbox"/>	
Impacts on snow and winter events requirements (e.g. deicing operations)	<input checked="" type="checkbox"/>	Increase in the amount of non-movement areas requiring snow/ice removal service
Others, please specify:	<input type="checkbox"/>	

22. How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

- ☐ Excellent
- ☒ Good
- ☐ Satisfactory
- ☐ Poor

Comments

TSA 1542 Security Requirements

23. Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

- ☒ Yes
- ☐ No

24. How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

- ☐ Excellent
- ☒ Good
- ☐ Satisfactory
- ☐ Poor

Comments

Airline Agreements, Costs, Revenues, and Benefits

25. Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

- ☒ Yes
- ☐ No

26. If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
Gates rental and allotment	<input checked="" type="checkbox"/>	
Terminal space and/or equipment	<input checked="" type="checkbox"/>	
Apron space and/or Hardstands (Aircraft Parking Position)	<input checked="" type="checkbox"/>	
Others, please specify:	<input type="checkbox"/>	

27. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

☒ Yes

☐ No

28. If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

Public/Private Partnership
Accelerated amortization of CBRA expansion

29. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

Ability to screen baggage at a rate to keep up with demand

Environmental Planning and Community Involvement

30. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

☒ Yes

☐ No

31. If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
Local noise abatement program (e.g Part 150 study)	<input checked="" type="checkbox"/>	<input type="text"/>
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)	<input type="checkbox"/>	<input type="text"/>
Public Involvement Program (PIP)	<input type="checkbox"/>	<input type="text"/>
Airport Master Plan study	<input checked="" type="checkbox"/>	<input type="text"/>
Others, please specify:	<input type="checkbox"/>	<input type="text"/>

ACRP Synthesis Report

32. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

☒ Yes

☐ No

Thank You!

Thank you for taking our survey. Your response is very important to us. If you have any questions or comments, please feel free to contact our principal investigator at dverdier@dyconsultants.com

2. Respondent Information

Please enter your contact information.

First Name

Dan

Last Name

Blake

Title

Director of Airport Operations

Airport / Organization

Daytona Beach International Airport

Email Address

dblake@volusia.org

Phone Number

386-453-6567

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2016	jetBlue added service
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Successful Air Service Development effort from the Airport

Comments:

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

No

If the answer is Yes, please explain the conditions of this change:

5. If the answer is No, please summarize in few words your airport mission.

To deliver world class customer service with a hometown airport feel.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	
Increase of flights frequency: e.g. more weekly/daily operations	X	
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations		
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	
Future Activity Assessment, Traffic Demand Uncertainty	
Operations and Management	1
Coordination with Airline Partners	
Coordination with Regulatory Agency(ies)	
Construction / Implementation	
Financial / Capital Investments	2
Safety / Security	3
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

Needs related to the provision of Air Traffic Services

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

Passenger loading issues: need for new loading bridge and/or for bridge replacement

Issues related to GSE utilization and storage (e.g. shared-use equipment)

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Minor Modifications of existing Passenger Terminal Building

Comments: Podiums and ticketing/gate area, minor construction (millwork) for branding purposes.

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Check-in area: need for additional waiting space, need for additional conventional counters, self-service kiosks.

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.
What elements on the Landside have required the main changes/adjustments? [please check all that apply]

Issues and/or specific needs for taxi and TNC operations due to the increase of traffic at the airport.

10. Cargo Facility/Operations Impacts

15.
Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None	X	

11. Use of Temporary Facility

16.
Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	
Yes for cargo operations:	
No	not needed

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Excellent

Comments:

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office

(ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20. Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

No

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

21. Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment		
Terminal space and/or equipment		
Apron space and/or Hardstands (Aircraft Parking Position)		
Others, please specify:		

22. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

23. Please describe the benefits that the airport has seen (or is expected to receive) from the

investments made to support the activity growth?

16. Environmental Planning and Community Involvement

24. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

No

If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)		
Public Involvement Program (PIP)		
Airport Master Plan study		
Others, please specify:		

17. ACRP Synthesis Report

25. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Joshua

Last Name

Abramson

Title

Airport Manager

Airport / Organization

Easterwood Airport Management

Email Address

jabramson@astin.us

Phone Number

9797759901

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2017	The peak volume has changed because of a transition from 50 seat to 65 seat aircraft that presents a challenge when accommodating two flights
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)

Comments: change from crj200 to crj700

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

Yes

5. If the answer is Yes, please explain the conditions of this change:

Other, please specify:: change from airfield improvements to terminal improvements

If the answer is No, please summarize in few words your airport mission.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	upguaged aircraft from 50 to 65 seats
Increase of flights frequency: e.g. more weekly/daily operations		
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations	X	reduction of total flights from 5 to 4 daily
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	2
Operations and Management	3
Coordination with Airline Partners	2
Coordination with Regulatory Agency(ies)	3
Construction / Implementation	1
Financial / Capital Investments	1
Safety / Security	3
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

Other, please specify: none

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

Other, please specify:: none

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Major Expansion of existing Passenger Terminal Building

Comments: major change to the existing footprint

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Internal corridor space and passenger hold areas to handle the increased number of passenger disembarking.

Expansion of concession areas to serve the additional travelers and to help defray the costs of renovations.

Outbound baggage handling system, from check-in to aircraft loading (e.g. screening, make-up area)

Inbound baggage handling system, from aircraft unloading to baggage claim. (e.g. baggage claim belt capacity)

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.

What elements on the Landside have required the main changes/adjustments?
[please check all that apply]

Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).

Issues and/or specific needs for taxi and TNC operations due to the increase of traffic at the airport.

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None	X	

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	
Yes for cargo operations:	
No	none

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Excellent

Comments: Route planner's communication have been helpful. The ground handlers had a pretty significant change in services with increased staff and equipment. This presences a challenge for a small airport trying to focus on the customer volume pressures

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

No

How would you rate the communication and coordination process that have

taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

21.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment		
Terminal space and/or equipment		
Apron space and/or Hardstands (Aircraft Parking Position)		
Others, please specify:		

22. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

23. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

parking revenue growth to offset TNC loss

16. Environmental Planning and Community Involvement

24. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

No

If the answer is Yes, please specify as part of which local/state/federal

program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)		
Public Involvement Program (PIP)		
Airport Master Plan study		
Others, please specify:		

17. **ACRP Synthesis Report**

25. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Kevin

Last Name

Wu

Title

Airport Manager-Airside Operations

Airport / Organization

FLL/Broward County Aviation Department

Email Address

kwu@broward.org

Phone Number

954.359.1216

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2011-2017	Significant growth in both domestic and international passenger traffic.
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Successful Air Service Development effort from the Airport

Airport approached by a new airline to start service

Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)

Comments:

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

Yes

5. If the answer is Yes, please explain the conditions of this change:

Focus on a different type of commercial service (e.g. from business to leisure travel), please explain:: Enhancement and additional focus on guest experience.

If the answer is No, please summarize in few words your airport mission.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	Airlines using larger aircraft and more wide-body operations.
Increase of flights frequency: e.g. more weekly/daily operations	X	
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations		
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	
Operations and Management	
Coordination with Airline Partners	3
Coordination with Regulatory Agency(ies)	
Construction / Implementation	2
Financial / Capital Investments	
Safety / Security	
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

New runway, runway extension or design changes due to new Aircraft Type

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type

Passenger loading issues: need for new loading bridge and/or for bridge replacement

Additional remote parking positions and/or Remain Over Night parking

Issues related to GSE utilization and storage (e.g. shared-use equipment)

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Major Expansion of existing Passenger Terminal Building

Comments:

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Internal corridor space and passenger hold areas to handle the increased number of passenger disembarking.

Expansion of concession areas to serve the additional travelers and to help defray the costs of renovations.

Security screening checkpoints for departure passengers.

Check-in area: need for additional waiting space, need for additional conventional counters, self-service kiosks.

Outbound baggage handling system, from check-in to aircraft loading (e.g. screening, make-up area)

Need for new international facility area; need for FIS/CBP expansion and additional equipment.

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.

What elements on the Landside have required the main changes/adjustments? [please check all that apply]

Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).

Reconfiguration of the airport access roadway system and/or terminal curbside.

Issues and/or specific needs for taxi and TNC operations due to the increase of traffic at the airport.

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None	X	

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	Planning a temp 5 gate remote terminal.
Yes for cargo operations:	
No	

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Excellent

Comments:

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations

and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20.
Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

No

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

21.
Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment		
Terminal space and/or equipment		
Apron space and/or Hardstands (Aircraft Parking Position)		
Others, please specify:		

22. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

23. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

16. Environmental Planning and Community Involvement

24. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

No

If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)		
Public Involvement Program (PIP)		
Airport Master Plan study		
Others, please specify:		

17. ACRP Synthesis Report

25. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Skip

Last Name

Miller

Title

Executive Director

Airport / Organization

Louisville International Airport (SDF)

Email Address

skip.miller@flylouisville.com

Phone Number

502-363-8501

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume		
Significant decrease of passenger volume		
Significant increase of cargo activity	2017	change to regularly scheduled Group VI aircraft
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes /

destinations / markets)

Comments: New Group VI cargo plane arrivals on a regularly scheduled basis as a result of having UPS's Worldport all points connecting hub at SDF.

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

No

If the answer is Yes, please explain the conditions of this change:

5. If the answer is No, please summarize in few words your airport mission.

Connecting people and businesses to commerce, purpose and prosperity.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	747-800
Increase of flights frequency: e.g. more weekly/daily operations	X	Could be an additional 3 to 6 flights daily.
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations		
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	1
Operations and Management	3
Coordination with Airline Partners	1
Coordination with Regulatory Agency(ies)	1
Construction / Implementation	1
Financial / Capital Investments	2
Safety / Security	3
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

Taxiway improvements/design change due to new Aircraft Type

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

Comments: airfield upgrades only

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Not applicable

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.

**What elements on the Landside have required the main changes/adjustments?
[please check all that apply]**

Other, please specify:: roadway relocation for new taxiway construction

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:	X	airfield operational changes
None		

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	
Yes for cargo operations:	
No	no

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have

taken place with airlines during the planning and implementation of necessary changes at your airport:

Excellent

Comments:

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

Yes

20.

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:	X	Modifications to standards for Group VI aircraft operations submitted as required to FAA

21.

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Good

Comments:

14. TSA 1542 Security Requirements

22.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

No

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the

implementation of the necessary changes at your airport:

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

23.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment		
Terminal space and/or equipment		
Apron space and/or Hardstands (Aircraft Parking Position)		
Others, please specify:		

24. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

25. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

16. Environmental Planning and Community Involvement

26. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

Yes

27. If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)	X	
Public Involvement Program (PIP)	X	As per NEPA as required by FAA
Airport Master Plan study		
Others, please specify:		

17. **ACRP Synthesis Report**

28. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Margi

Last Name

EvanSon

Title

Director - Operations and Maintenance

Airport / Organization

Phoenix-Mesa Gateway Airport Authority

Email Address

mevanson@gatewayairport.com

Phone Number

480-988-7549

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2008-2017	The successful service offered by Allegiant Air, WestJet, and others have resulted in a change in traffic, from 59,231 in 2007, to 1.384M in 2012, and then a slight dip between 2012-2016 due to Frontier and Spirit stopping service. In addition, Allegiant has changed fleet type, transitioning from 166 seat MD83 to 150 seat A319.
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Successful Air Service Development effort from the Airport
 Airport approached by a new airline to start service
 Loss of service / Airline(s) ceasing operations at the Airport

Comments:

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

No

If the answer is Yes, please explain the conditions of this change:

5. If the answer is No, please summarize in few words your airport mission.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type		
Increase of flights frequency: e.g. more weekly/daily operations	X	
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations		
Other, please specify:	X	WestJet seasonal Canadian service

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	3
Operations and Management	
Coordination with Airline Partners	
Coordination with Regulatory Agency(ies)	
Construction / Implementation	2
Financial / Capital Investments	
Safety / Security	
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

Needs related to the provision of Air Traffic Services

Other, please specify: Petitioned FAA to increase ATCT hours

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type

Passenger loading issues: need for new loading bridge and/or for bridge replacement

Additional remote parking positions and/or Remain Over Night parking
Issues related to fueling operations (trucks/carts or fuel hydrant system)

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Major Expansion of existing Passenger Terminal Building

Minor Modifications of existing Passenger Terminal Building

Comments: We had at least 3 major terminal expansions and have worked on about 6 space allocation projects to increase terminal and passenger processing facilities

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Internal corridor space and passenger hold areas to handle the increased number of passenger disembarking.

Expansion of concession areas to serve the additional travelers and to help defray the costs of renovations.

Security screening checkpoints for departure passengers.

Check-in area: need for additional waiting space, need for additional conventional counters, self-service kiosks.

Outbound baggage handling system, from check-in to aircraft loading (e.g. screening, make-up area)

Inbound baggage handling system, from aircraft unloading to baggage claim. (e.g. baggage claim belt capacity)

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.

What elements on the Landside have required the main changes/adjustments? [please check all that apply]

Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).

Reconfiguration of the airport access roadway system and/or terminal curbside.

Issues and/or specific needs for public transit due to the increase of traffic at the airport.

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None	X	

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	We installed a "temporary" modular building to house a 4 gate expansion. It is still in use 10 years later along with the construction of an additional 6 gates
Yes for cargo operations:	
No	

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Good

Comments:

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

No

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

21.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment		
Terminal space and/or equipment		
Apron space and/or Hardstands (Aircraft Parking Position)		
Others, please specify:		

22. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

Yes

23. If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

Airline funded capital need and airport repaid in a defined time period.

24. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

Non-aero revenue growth

16. Environmental Planning and Community Involvement

25. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

No

If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)		
Public Involvement Program (PIP)		
Airport Master Plan study		
Others, please specify:		

17. ACRP Synthesis Report

26. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Dan

Last Name

Trapp

Title

Director of Engineering and Planning

Airport / Organization

MidAmerica St. Louis Airport (BLV)

Email Address

dan.trapp@flymidamerica.com

Phone Number

6185665322

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2014 - current year	Enplanements increased from 16,328 in 2014 to 79,888 in 2016. 2017 enplanements are expected to surpass 120,000.
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Successful Air Service Development effort from the Airport

Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)

Comments: Allegiant Air increased routes and frequency of existing routes.

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

No

If the answer is Yes, please explain the conditions of this change:

5. If the answer is No, please summarize in few words your airport mission.

To provide the best Joint Use Operations in America, to host international cargo commerce, to host leisure and region augmenting passenger service, to provide residency and climate for aircraft maintenance, repair and overhaul businesses.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type		
Increase of flights frequency: e.g. more weekly/daily operations	X	
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations		
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	3
Operations and Management	2
Coordination with Airline Partners	3
Coordination with Regulatory Agency(ies)	3
Construction / Implementation	3
Financial / Capital Investments	1
Safety / Security	3
Other (please specify in the Comments box)	

Comments: Each and every item above has been a challenge due to the rate of increase.

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

Passenger loading issues: need for new loading bridge and/or for bridge replacement

Issues related to fueling operations (trucks/carts or fuel hydrant system)

Other, please specify:: Re-marking apron for additional parking position.

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Major Expansion of existing Passenger Terminal Building

Minor Modifications of existing Passenger Terminal Building

Comments: Minor modifications were necessary on the short term. Master Plan Update has been initiated. A major terminal expansion is being considered.

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Security screening checkpoints for departure passengers.

Inbound baggage handling system, from aircraft unloading to baggage claim. (e.g. baggage claim belt capacity)

Other, please specify:: Additional seating purchase.

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.

What elements on the Landside have required the main changes/adjustments?
[please check all that apply]

Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).

Other, please specify:: Additional rental car parking.

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None	X	

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	
Yes for cargo operations:	
No	X

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Excellent

Comments:

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

No

How would you rate the communication and coordination process that have

taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

21.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment		
Terminal space and/or equipment		
Apron space and/or Hardstands (Aircraft Parking Position)		
Others, please specify:		

22. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

23. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

Investments made to support the activity growth will provide additional capacity and capability to handle additional growth and modernize existing facilities to provide a better passenger experience.

16. Environmental Planning and Community Involvement

24. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

Yes

25. If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)		
Public Involvement Program (PIP)		
Airport Master Plan study	X	Master plan update underway.
Others, please specify:		

17. **ACRP Synthesis Report**

26. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Stephen

Last Name

Grubbs

Title

Deputy Director, Operations Division

Airport / Organization

PHX / Operations

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Phone Number

6022733466

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

No

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume		
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Successful Air Service Development effort from the Airport

Airport approached by a new airline to start service

Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)

Comments: Condor Airlines announcing new airline service in the Spring of 2018. American Airlines reducing connecting flights.

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

No

If the answer is Yes, please explain the conditions of this change:

5. If the answer is No, please summarize in few words your airport mission.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type		
Increase of flights frequency: e.g. more weekly/daily operations		
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations	X	less flights due to airlines using larger aircraft
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	
Operations and Management	2
Coordination with Airline Partners	
Coordination with Regulatory Agency(ies)	
Construction / Implementation	
Financial / Capital Investments	3
Safety / Security	
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

New runway, runway extension or design changes due to new Aircraft Type
Taxiway improvements/design change due to new Aircraft Type

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron (“Non-Movement Area”): [please check all that apply]

Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type
Passenger loading issues: need for new loading bridge and/or for bridge replacement
Issues related to fueling operations (trucks/carts or fuel hydrant system)
Issues related to GSE utilization and storage (e.g. shared-use equipment)

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Construction of a New Passenger Terminal Building

Comments: SWA upgauging to B737 Max, required modifications to gates, and construction of new concourse.

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Internal corridor space and passenger hold areas to handle the increased number of passenger disembarking.

Expansion of concession areas to serve the additional travelers and to help defray the costs of renovations.
Security screening checkpoints for departure passengers.

Need for new international facility area; need for FIS/CBP expansion and additional equipment.

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.

What elements on the Landside have required the main changes/adjustments?
[please check all that apply]

Reconfiguration of the airport access roadway system and/or terminal curbside.

Issues and/or specific needs for taxi and TNC operations due to the increase of traffic at the airport.

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None	X	

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	
Yes for cargo operations:	
No	Evaluating temporary facilities

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Excellent

Comments: Airline initiated the discussion to plan and build new gates.

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

No

How would you rate the communication and coordination process that have

taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

21.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment		
Terminal space and/or equipment		
Apron space and/or Hardstands (Aircraft Parking Position)		
Others, please specify:		

22. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

23. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

16. Environmental Planning and Community Involvement

24. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

No

If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)		
Public Involvement Program (PIP)		
Airport Master Plan study		
Others, please specify:		

17. **ACRP Synthesis Report**

25. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Eric

Last Name

Buncher

Title

Manager Planning Services

Airport / Organization

Pittsburgh International Airport

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Phone Number

4124725692

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume		
Significant decrease of passenger volume	2004-2013	
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Loss of service / Airline(s) ceasing operations at the Airport

Comments:

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

Yes

5. If the answer is Yes, please explain the conditions of this change:

Downgrade of Airport NPIAS Category/Role due to Loss of Service

Focus on a different type of commercial service (e.g. from business to leisure travel), please explain:: Large Hub to O&D

If the answer is No, please summarize in few words your airport mission.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type		
Increase of flights frequency: e.g. more weekly/daily operations		
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations	X	
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	2
Operations and Management	3
Coordination with Airline Partners	1
Coordination with Regulatory Agency(ies)	3
Construction / Implementation	3
Financial / Capital Investments	1
Safety / Security	3
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

Other, please specify: Need to down size

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

Other, please specify:: Need to down size

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

Comments:

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Not applicable

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Preserving of the existing space and adjustments made inside the terminal building (e.g. concourse space

reconfiguration/retrofit)

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

What elements on the Landside have required the main changes/adjustments? [please check all that apply]

10. Cargo Facility/Operations Impacts

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None		

11. Use of Temporary Facility

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	
Yes for cargo operations:	
No	

12. Relationship/Communication with Airline Partners

Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

13. Part 139 Requirements

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

14. TSA 1542 Security Requirements

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

15. Airline Agreements, Costs, Revenues, and Benefits

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment		
Terminal space and/or equipment		
Apron space and/or Hardstands (Aircraft Parking Position)		
Others, please specify:		

Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

16. Environmental Planning and Community Involvement

Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)		
Public Involvement Program (PIP)		
Airport Master Plan study		
Others, please specify:		

17. **ACRP Synthesis Report**

May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

2. Respondent Information

Please enter your contact information.

First Name

sean

Last Name

loughran

Title

Long Range Planning Manager

Airport / Organization

Port of Portland

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Phone Number

(503)415-6067

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2012-Present	Both domestic and international
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Successful Air Service Development effort from the Airport

Airport approached by a new airline to start service

Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)

Comments:

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

No

If the answer is Yes, please explain the conditions of this change:

5. If the answer is No, please summarize in few words your airport mission.

Support the cargo and passenger needs of the region.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	Q400 to E175 same seats but new routes, numerous planning related issues, 737-8 and 9's with more seats
Increase of flights frequency: e.g. more weekly/daily operations	X	particularly during periods
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations		
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	2
Future Activity Assessment, Traffic Demand Uncertainty	3
Operations and Management	1
Coordination with Airline Partners	
Coordination with Regulatory Agency(ies)	
Construction / Implementation	
Financial / Capital Investments	
Safety / Security	
Other (please specify in the Comments box)	

Comments: I would really rank more than three and its hard to pick what would be the top three. Coordination with airline partners has been key, management of the security checkpoint has been a constant struggle, and management of capital program as we address the needs associated with growth is on-going.

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

Other, please specify: Greatest impact by far has been the need for additional remain overnight parking (RONs)

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron (“Non-Movement Area”): [please check all that apply]

Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type
 Passenger loading issues: need for new loading bridge and/or for bridge replacement
 Additional remote parking positions and/or Remain Over Night parking
 Issues related to fueling operations (trucks/carts or fuel hydrant system)
 Other, please specify: RON and flexible use of gates for mutiple aircraft types

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Construction of a New Passenger Terminal Building
 Minor Modifications of existing Passenger Terminal Building

Comments:

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Expansion of concession areas to serve the additional travelers and to help defray the costs of renovations.
 Security screening checkpoints for departure passengers.
 Inbound baggage handling system, from aircraft unloading to baggage claim. (e.g. baggage claim belt capacity)

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.

**What elements on the Landside have required the main changes/adjustments?
 [please check all that apply]**

Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).
 Reconfiguration of the airport access roadway system and/or terminal curbside.
 Issues and/or specific needs for taxi and TNC operations due to the increase of traffic at the airport.

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None	X	

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	Currently considering options for temporary ticket counter and other airport support program (police, TSA, emergency operations center, etc.)
Yes for cargo operations:	
No	

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Satisfactory

Comments: It depends, some airlines better than other.

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

No

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

21.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment		
Terminal space and/or equipment		
Apron space and/or Hardstands (Aircraft Parking Position)		
Others, please specify:		

22. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

23. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

Increased air service for the region - more domestic directs and more international service to both Europe and Asia

16. Environmental Planning and Community Involvement

24. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

Yes

25. If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)		
Public Involvement Program (PIP)	X	We use a community advisory committee to keep the public appraised of the ongoing planning and development of the airport. We provide quarterly reports on airport activity and what is going on at the airport in response to growth.
Airport Master Plan study		
Others, please specify:		

17. ACRP Synthesis Report

26. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

James

Last Name

Parish

Title

CEO

Airport / Organization

Punta Gorda Airport

Email Address

jparish@flypgd.com

Phone Number

9416391101

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2012-2017	
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)

Comments: Allegiant Air expanded service to PGD after the Bankruptcy of Direct Air

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

Yes

5. If the answer is Yes, please explain the conditions of this change:

From non-commercial service (General Aviation) to commercial service

If the answer is No, please summarize in few words your airport mission.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	MD 80 to A-320
Increase of flights frequency: e.g. more weekly/daily operations	X	from 10 to over 100
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations		
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	1
Operations and Management	1
Coordination with Airline Partners	2
Coordination with Regulatory Agency(ies)	2
Construction / Implementation	1
Financial / Capital Investments	2
Safety / Security	1
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

Need for new lighting system, and/or additional navigational equipment (NAVAIDS) in order to upgrade departure/approach procedures

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type
 Issues related to fueling operations (trucks/carts or fuel hydrant system)
 Issues related to GSE utilization and storage (e.g. shared-use equipment)

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Major Expansion of existing Passenger Terminal Building

Comments:

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Internal corridor space and passenger hold areas to handle the increased number of passenger disembarking.
 Expansion of concession areas to serve the additional travelers and to help defray the costs of renovations.

Security screening checkpoints for departure passengers.
Check-in area: need for additional waiting space, need for additional conventional counters, self-service kiosks.
Outbound baggage handling system, from check-in to aircraft loading (e.g. screening, make-up area)
Inbound baggage handling system, from aircraft unloading to baggage claim. (e.g. baggage claim belt capacity)

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.
What elements on the Landside have required the main changes/adjustments? [please check all that apply]

Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).
Reconfiguration of the airport access roadway system and/or terminal curbside.
Issues and/or specific needs for taxi and TNC operations due to the increase of traffic at the airport.

10. Cargo Facility/Operations Impacts

15.
Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None	X	

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	Temporary Hold Rooms
Yes for cargo operations:	
No	

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Good

Comments:

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20. Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

No

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

21. Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

Yes

22. If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment	X	
Terminal space and/or equipment	X	
Apron space and/or Hardstands (Aircraft Parking Position)	X	
Others, please specify:		

23. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

Yes

24. If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

Turn Fees were indexed to decrease with increased frequency

25. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

Significant increase in non airline revenue ie parking and RAC

16. Environmental Planning and Community Involvement

26. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

Yes

27. If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)	X	
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)	X	
Public Involvement Program (PIP)		
Airport Master Plan study	X	
Others, please specify:		

17. ACRP Synthesis Report

28. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Benjamin

Last Name

Leischner

Title

Airline Scheduling Manager

Airport / Organization

Port of Seattle (SEA)

Email Address

Leischner.B@portseattle.org

Phone Number

206-604-9741

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	roughly 40% increase in last 5 years	45.7 MAP in 2016, 33.2 MAP in 2012.
Significant decrease of passenger volume		
Significant increase of cargo activity	Cargo tonnage up roughly 30% in last 5 years	366,000 metric tons in 2016, 283,600 metric tons in 2012.
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Airport approached by a new airline to start service

Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)

Comments: DL added international hub to SEA - which included the start of a domestic route network into SEA. B787 deliveries to international foreign flag carriers made SEA route more desirable/feasible than ever.

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

No

If the answer is Yes, please explain the conditions of this change:

5. If the answer is No, please summarize in few words your airport mission.

Our mission is to provide safe and secure facilities that are as efficient and reliable as possible - this is unchanged. Instead, these changes have created significant challenges to how we complete our mission.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	More widebody international flights
Increase of flights frequency: e.g. more weekly/daily operations	X	almost all foreign flag carriers didn't reduce service during IATA W17 schedule season.
Use of smaller aircraft type	X	DL added a west coast route network to feed international passenger traffic, increasing congestion and schedule saturation.
Decrease of flights frequency: e.g. less weekly/daily operations		
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	3
Operations and Management	1
Coordination with Airline Partners	3
Coordination with Regulatory Agency(ies)	3
Construction / Implementation	1
Financial / Capital Investments	3
Safety / Security	1
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

Need to upgrade departure/approach procedures, without additional equipment (e.g. obstruction mitigation or new GPS procedure)

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron (“Non-Movement Area”): [please check all that apply]

Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type

Passenger loading issues: need for new loading bridge and/or for bridge replacement

Additional remote parking positions and/or Remain Over Night parking

Issues related to GSE utilization and storage (e.g. shared-use equipment)

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Major Expansion of existing Passenger Terminal Building

Comments: IAF construction developing 2-1 widebody gates where 1 widebody gate will consume 2 narrowbody gates - this further exasperates the gate shortage issues of the airport.

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Internal corridor space and passenger hold areas to handle the increased number of passenger disembarking.

Expansion of concession areas to serve the additional travelers and to help defray the costs of renovations.

Check-in area: need for additional waiting space, need for additional conventional counters, self-service

kiosks.

Outbound baggage handling system, from check-in to aircraft loading (e.g. screening, make-up area)

Need for new international facility area; need for FIS/CBP expansion and additional equipment.

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.

**What elements on the Landside have required the main changes/adjustments?
[please check all that apply]**

Other, please specify:: increased airline signage needs (more carriers = more infrastructure to support signage)

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.	X	competes with pax facilities - not enough real estate to support future needs of both.
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None		

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	hardstand operations incl. 6+ gate temporary holdroom at 34,000 sf.
Yes for cargo operations:	
No	

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Excellent

Comments: Increased to IATA level 2 - slot facilitation - gains the airport an additional 90 days of advance schedule look-ahead.

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

No

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

21.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment		
Terminal space and/or equipment		
Apron space and/or Hardstands (Aircraft Parking Position)		
Others, please specify:		

22. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

23. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

Decreased CPE due to increased enplanements.

16. Environmental Planning and Community

Involvement

24. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

Yes

25. If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)	X	increased activity = increased noise complaints
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)	X	SEPA constraints with "future capacity" needs
Public Involvement Program (PIP)		
Airport Master Plan study	X	currently in middle of SAMP
Others, please specify:		

17. ACRP Synthesis Report

26. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Jon

Last Name

Stout

Title

Airport Manager

Airport / Organization

Charles M. Schulz - Sonoma County Airport

Email Address

jon.stout@sonoma-county.org

Phone Number

(707) 565-7243

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2016, 2017	Went from one carrier to four airlines over an 18 month period
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Successful Air Service Development effort from the Airport

Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)

Comments: went from one carrier (Alaska operated by Horizon) which also increased frequency to current destinations (7 to 9 daily flights) and added on new destination (SNA Mar. 2016); Started Allegiant service (May 2016 to LAS and IWA - discontinued July 2017); AA started service to PHX (Feb. 2017); UA started service to SFO (June 2017); SY started seasonal service to MSP (Aug. 2017)

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

Yes

5. If the answer is Yes, please explain the conditions of this change:

Focus on a different type of commercial service (e.g. from business to leisure travel), please explain:: due to terminal size limitation, switched from attraction to enhancement of service provided

If the answer is No, please summarize in few words your airport mission.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	added mainline aircraft to operations
Increase of flights frequency: e.g. more weekly/daily operations	X	Horizon added additional seasonal frequency, AA added two new flights, UA added three new flights and SY added 1 flight per week
Use of smaller aircraft type	X	added a new carrier with smaller aircraft than was in current use
Decrease of flights frequency: e.g. less weekly/daily operations		
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	2
Operations and Management	2
Coordination with Airline Partners	3
Coordination with Regulatory Agency(ies)	2
Construction / Implementation	1
Financial / Capital Investments	1
Safety / Security	2
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron (“Non-Movement Area”): [please check all that apply]

Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type

Passenger loading issues: need for new loading bridge and/or for bridge replacement

Additional remote parking positions and/or Remain Over Night parking

Issues related to GSE utilization and storage (e.g. shared-use equipment)

Other, please specify:: additional ramp lighting and GSE power needs

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Major Expansion of existing Passenger Terminal Building

Comments: To facilitate four airlines from one, a temporary ticketing facility was constructed; due to mainline aircraft a tensile structure was built for additional gate space

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Check-in area: need for additional waiting space, need for additional conventional counters, self-service kiosks.

Outbound baggage handling system, from check-in to aircraft loading (e.g. screening, make-up area)

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.

**What elements on the Landside have required the main changes/adjustments?
[please check all that apply]**

Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).

Reconfiguration of the airport access roadway system and/or terminal curbside.

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None	X	

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	modular facility constructed for ticketing and passenger check in; tensile tent structure built for additional gate space, will be expanded early next year for a larger TSA check point
Yes for cargo operations:	
No	

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Excellent

Comments:

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

No

How would you rate the communication and coordination process that have

taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

21.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

Yes

22.

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment	X	
Terminal space and/or equipment	X	
Apron space and/or Hardstands (Aircraft Parking Position)	X	
Others, please specify:		

23. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

24. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

16. Environmental Planning and Community Involvement

25. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

Yes

26. If the answer is Yes, please specify as part of which local/state/federal

program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)	X	
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)	X	
Public Involvement Program (PIP)		
Airport Master Plan study		
Others, please specify:		

17. **ACRP Synthesis Report**

27. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Mark

Last Name

Sprague

Title

Deputy Director - Operations & Facilities

Airport / Organization

St Pete-Clearwater International Airport

Email Address

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Phone Number

727-453-7802

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2012 to present	5th consecutive year of growth with a 44% growth since 2012.
Significant decrease of passenger volume		
Significant increase of cargo activity		
Significant decrease of cargo activity	2017	UPS airlines switched from PIE to TPA Airports

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Successful Air Service Development effort from the Airport

Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)

Loss of service / Airline(s) ceasing operations at the Airport

Comments: The loss of service was UPS

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

No

If the answer is Yes, please explain the conditions of this change:

5. If the answer is No, please summarize in few words your airport mission.

To be the Tampa Bay The Easy Way airport whether its from Passenger traffic heading to the beach or Cargo Facilities in Pinellas County.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	Allegiant switched from MD 80's to Airbus Fleet
Increase of flights frequency: e.g. more weekly/daily operations	X	Allegiant changed its model on certain cities from a few times a week to daily
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations	X	UPS pulled completely out of the Airport
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	2
Future Activity Assessment, Traffic Demand Uncertainty	
Operations and Management	1
Coordination with Airline Partners	
Coordination with Regulatory Agency(ies)	
Construction / Implementation	3
Financial / Capital Investments	
Safety / Security	
Other (please specify in the Comments box)	

Comments: With many construction projects, 53.3 Million in CIP projects, the airport is undertaking the most aggressive construction projects in history.

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

New runway, runway extension or design changes due to new Aircraft Type

Taxiway improvements/design change due to new Aircraft Type

Needs related to the provision of Air Traffic Services

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type

Passenger loading issues: need for new loading bridge and/or for bridge replacement

Additional remote parking positions and/or Remain Over Night parking

Issues related to fueling operations (trucks/carts or fuel hydrant system)

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Major Expansion of existing Passenger Terminal Building

Comments:

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Internal corridor space and passenger hold areas to handle the increased number of passenger disembarking.

Expansion of concession areas to serve the additional travelers and to help defray the costs of renovations.

Security screening checkpoints for departure passengers.

Check-in area: need for additional waiting space, need for additional conventional counters, self-service kiosks.

Outbound baggage handling system, from check-in to aircraft loading (e.g. screening, make-up area)

Need for new international facility area; need for FIS/CBP expansion and additional equipment.

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Other, please explain:: The ramp was the same piece of tarmac so no change

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

Utilize the space for passengers traffic and RON spots

9. Airport Access and Landside Needs

14.

What elements on the Landside have required the main changes/adjustments? [please check all that apply]

Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).

Reconfiguration of the airport access roadway system and/or terminal curbside.

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.	X	CIP Project in 3 years
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None		

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	Built a gate in Baggage Claim area
Yes for cargo operations:	
No	

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Excellent

Comments: Checklist and tenant Managers meetings

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

Yes

20.

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)	X	
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

21.

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Excellent

Comments:

14. TSA 1542 Security Requirements

22.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

Yes

23.

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Excellent

Comments: The AOA fence moved several times

15. Airline Agreements, Costs, Revenues, and Benefits

24.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment		
Terminal space and/or equipment		
Apron space and/or Hardstands (Aircraft Parking Position)		
Others, please specify:		

25. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

26. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

More revenue with concessions.

Able to have more flights during off peak times

Increase in International Flights.

16. Environmental Planning and Community Involvement

27. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

Yes

28. If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)	X	Communicate to the Noise Abatement Task Force the improvements
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)		
Public Involvement Program (PIP)		
Airport Master Plan study	X	Ongoing Masterplan www.piemasterplan.com
Others, please specify:		

17. ACRP Synthesis Report

29. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Michael

Last Name

Carnarvon

Title

Airport Operations Supervisor

Airport / Organization

AvPORTS / Westchester County Airport

Email Address

mjce@westchestergov.com

Phone Number

9146409004

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

No

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2005-2010	480,000 enplanements to 995,000 enplanements
Significant decrease of passenger volume	2011-2017	995,000 enplanements to 750,000 enplanements
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Successful Air Service Development effort from the Airport

Airline(s) already operating at the airport who changed their operations (e.g. opening of new routes / destinations / markets)

Loss of service / Airline(s) ceasing operations at the Airport

Comments: The spike in passenger enplanements in the early years was due to the introduction of JetBlue and AirTran services at HPN; the decrease in the later years was due to the discontinuation of AirTran services.

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

No

If the answer is Yes, please explain the conditions of this change:

5. If the answer is No, please summarize in few words your airport mission.

Regardless of trends from scheduled air service, the goal of developing airport infrastructure to increase efficiency and effectiveness for all traffic serving HPN has remained consistent.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	2005-2010; Increase in E190 & A320 traffic
Increase of flights frequency: e.g. more weekly/daily operations	X	2005-2010
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations	X	2011-2017
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	1
Future Activity Assessment, Traffic Demand Uncertainty	2
Operations and Management	2
Coordination with Airline Partners	1
Coordination with Regulatory Agency(ies)	1
Construction / Implementation	2
Financial / Capital Investments	2
Safety / Security	2
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

Need for new lighting system, and/or additional navigational equipment (NAVAIDS) in order to upgrade departure/approach procedures

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

Passenger loading issues: need for new loading bridge and/or for bridge replacement

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Minor Modifications of existing Passenger Terminal Building

Comments: Potential future expansion within the terminal building to meet expected demand.

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Security screening checkpoints for departure passengers.

Check-in area: need for additional waiting space, need for additional conventional counters, self-service kiosks.

Outbound baggage handling system, from check-in to aircraft loading (e.g. screening, make-up area)

Inbound baggage handling system, from aircraft unloading to baggage claim. (e.g. baggage claim belt capacity)

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Preserving of the facility as it is (no major changes)

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

No major changes due to downgauging in recent years; nearly all space is utilized

9. Airport Access and Landside Needs

14.

**What elements on the Landside have required the main changes/adjustments?
[please check all that apply]**

Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).

Other, please specify:: Designated "waiting areas" to keep terminal curbside clear of standing vehicles

10. Cargo Facility/Operations Impacts

15.

Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None	X	

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	
Yes for cargo operations:	
No	No

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Good

Comments:

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

No

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)		
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations		
Major changes in Airport Emergency Plan (AEP)		
Impacts on snow and winter events requirements (e.g. deicing operations)		
Others, please specify:		

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Comments:

14. TSA 1542 Security Requirements

20.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

No

How would you rate the communication and coordination process that have

taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

21.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

Yes

22.

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment	X	
Terminal space and/or equipment	X	
Apron space and/or Hardstands (Aircraft Parking Position)		
Others, please specify:		

23. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

24. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

New office buildings have been constructed, in which airlines will claim tenancy, due to larger space requirements for future expected demand.

16. Environmental Planning and Community Involvement

25. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

No

If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)		
Public Involvement Program (PIP)		
Airport Master Plan study		
Others, please specify:		

17. **ACRP Synthesis Report**

26. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes

2. Respondent Information

Please enter your contact information.

First Name

Anthony

Last Name

Dudas

Title

Airport Director

Airport / Organization

ISN

Email Address

anthonyd@ci.williston.nd.us

Phone Number

3. Introduction

1. Has your airport recently experienced a major change in passenger and/cargo activity (either in terms of volume or type) that has required some adjustments in your airport operations?

Yes

2. If the answer is Yes, was this change related to:

	Please indicate the year(s)	Comments(Optional)
Significant increase of passenger volume	2011-2014	
Significant decrease of passenger volume	2015-2016	
Significant increase of cargo activity		
Significant decrease of cargo activity		

4. Drivers of Upgauging (or Loss of Service)

3. What was/were the main driver(s) of this change of airport activity? [please check all that apply]

Airport approached by a new airline to start service

Comments: The Bakken oil boom began in 2011. Delta and United airlines began regional jet service in 2012 which increased our annual enplanements from approximately 20,000/year to 120,000/year in 2014. The oil activity has slowed and our last two years are now approximately 70,000/year.

5. Change of Airport Mission

4.

Would you say that your airport has changed its mission as a result of this change of activity?

Yes

5. If the answer is Yes, please explain the conditions of this change:

Focus on a different type of commercial service (e.g. from business to leisure travel), please explain:: Great expansion in business travel due to energy industry.

If the answer is No, please summarize in few words your airport mission.

6. Change of Airport Activity

6.

What was (were) the direct effect(s) of this change of airlines activity on airport operations?

	Please check all that apply	Please Explain
	Option 1	
Use of larger aircraft type	X	Change from turboprop to regional jet.
Increase of flights frequency: e.g. more weekly/daily operations	X	Increase from two flights/day up to 11 and then back down to 5.
Use of smaller aircraft type		
Decrease of flights frequency: e.g. less weekly/daily operations	X	See comment above.
Other, please specify:		

7. Impacts and Challenges due to Airport Activity Change

7. What were the main issues and challenges faced by the airport due to airline upgauging? Please rank in order of significance of impact ("1" representing the most critical challenge

for the airport):

	Rank [1 through 3]
Capacity / Facility Needs	
Future Activity Assessment, Traffic Demand Uncertainty	
Operations and Management	
Coordination with Airline Partners	
Coordination with Regulatory Agency(ies)	1
Construction / Implementation	3
Financial / Capital Investments	2
Safety / Security	
Other (please specify in the Comments box)	

Comments:

8. AIRSIDE / AIRFIELD IMPACTS

Please indicate the primary impacts/issues experienced on the Airside and Airfield: [please check all that apply]

New runway, runway extension or design changes due to new Aircraft Type
Taxiway improvements/design change due to new Aircraft Type
Needs related to the provision of Air Traffic Services

9. APRON / AIRCRAFT PARKING

Please indicate the primary impacts/issues experienced on the Terminal Apron ("Non-Movement Area"): [please check all that apply]

Apron area expansion for new gates, and/or gate upgauging due to new Aircraft Type
Passenger loading issues: need for new loading bridge and/or for bridge replacement
Additional remote parking positions and/or Remain Over Night parking
Issues related to GSE utilization and storage (e.g. shared-use equipment)

8. Passenger Terminal Facility Needs

10.

In the case of Upgauging, did the increase of airport activity require any modifications/adjustments of the passenger terminal facilities?

Construction of a New Passenger Terminal Building

Comments:

11.

In the case of Upgauging, what elements of the Terminal Building have required the main changes/adjustments? [please check all that apply]

Internal corridor space and passenger hold areas to handle the increased number of passenger disembarking.
 Expansion of concession areas to serve the additional travelers and to help defray the costs of renovations.
 Security screening checkpoints for departure passengers.
 Check-in area: need for additional waiting space, need for additional conventional counters, self-service kiosks.
 Outbound baggage handling system, from check-in to aircraft loading (e.g. screening, make-up area)
 Inbound baggage handling system, from aircraft unloading to baggage claim. (e.g. baggage claim belt capacity)

12. In the case of "Downgauging" (Loss/Reduction of Service), did the reduction of airport activity require any modifications/adjustments of the passenger terminal facilities?

Not applicable

13. In the case of "Downgauging" (loss/reduction of service), please briefly explain what efforts have been done to reposition the surplus of space or equipment and the cost or new overhead expenses associated to it?

9. Airport Access and Landside Needs

14.
What elements on the Landside have required the main changes/adjustments? [please check all that apply]

Need for additional auto parking space (e.g. new parking garage, new parking surface lots, extension of existing parking).
 Reconfiguration of the airport access roadway system and/or terminal curbside.
 Issues and/or specific needs for taxi and TNC operations due to the increase of traffic at the airport.

10. Cargo Facility/Operations Impacts

15.
Please indicate the primary impacts/issues experienced at the airport due to the change of cargo activity (if any).

	Please check all that apply	Comments (optional)
	Option 1	
Need for a new cargo facility or expansion of existing facility.		
Needs/Issues related to cargo loading and unloading: e.g. main deck platform loader, lower lobe platform loader.		
Needs/Issues related to cargo transport: e.g. tractor, cargo container dolly, cargo containers, forklift.		
Needs/Issues related to fueling operations (trucks/carts or fuel hydrant system).		
Others, please specify:		
None	X	

11. Use of Temporary Facility

16.

Did you use or are you planning to use any temporary facility in order to handle the change of activity in the short term?

	Please describe the type of Facility
Yes for passenger activity:	Temporary trailer facility to expand the post security area.
Yes for cargo operations:	
No	

12. Relationship/Communication with Airline Partners

17. Was there any communication/relationship building required with airline partners due to the change of activity at your airport?

Yes

18.

How would you rate the communication and coordination process that have taken place with airlines during the planning and implementation of necessary changes at your airport:

Satisfactory

Comments: Air carriers can be difficult to contact to discuss issues.

13. Part 139 Requirements

19.

Did the change of activity at your airport require modifications of your Part 139 Operations and Certification process:

Yes

20.

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	Option 1	
Change of Airport Part 139 Class		
Major changes in Airport Certification Manual (ACM)	X	
Provision of fuel service		
Aircraft Rescue and Fire Fighting (ARFF) operations	X	
Major changes in Airport Emergency Plan (AEP)	X	
Impacts on snow and winter events requirements (e.g. deicing operations)	X	
Others, please specify:		

21.

How would you rate the communication and coordination process that have taken place with the FAA Airport District Office (ADO) during the implementation of the necessary changes at your airport:

Excellent

Comments:

14. TSA 1542 Security Requirements

22.

Did the change of activity require any modification(s) related to TSA 1542 Security Requirements for your airport:

Yes

23.

How would you rate the communication and coordination process that have taken place with the Transportation Security Administration (TSA) during the implementation of the necessary changes at your airport:

Excellent

Comments:

15. Airline Agreements, Costs, Revenues, and Benefits

24.

Did the change of activity at your airport require an adjustment of your terminal and/or facility leasing structure:

Yes

25.

If the answer is Yes, were these changes related to:

	Please check all that apply	Comments (optional)
	option1	
Gates rental and allotment	X	
Terminal space and/or equipment	X	
Apron space and/or Hardstands (Aircraft Parking Position)	X	
Others, please specify:		

26. Was there any specific agreement made with airline partners in order to share the financial risks associated with the costs and investments involved in the upgauging process? (e.g. commitment to capital investment, operational expenses, abatement of revenue, staffing):

No

If the answer is Yes, can you please provide a high-level overview of the types of agreement reached upon with the airline(s).

27. Please describe the benefits that the airport has seen (or is expected to receive) from the investments made to support the activity growth?

The City of Williston is building a new, green field commercial service airport approximately 5 miles from the existing facility. This new facility will meet all applicable FAA design standards and allow air carriers the ability to continue to upgauge as necessary. The current facility is limited to 53,000 lb aircraft, or 50 passenger regional jets.

16. Environmental Planning and Community Involvement

28. Did the change of activity at your airport require the preparation of additional plans and/or programs related to Environmental Planning and Community Involvement:

Yes

29. If the answer is Yes, please specify as part of which local/state/federal program:

	Please check all that apply	Comments (optional)
	Option 1	
Local noise abatement program (e.g Part 150 study)		
Environmental plan as part of the FAA NEPA process (e.g. EA, EIS, Part 150 study)	X	
Public Involvement Program (PIP)		
Airport Master Plan study	X	
Others, please specify:		

17. **ACRP Synthesis Report**

30. May the research team contact you in the future for additional information on your airport's experience with issues and challenges related to Airline Upgauging? If so, we will use the contact details you gave us at the beginning of this survey.

Yes