



Welcome!

Noise Compatibility Study (Part 150) Update Piedmont Triad International Airport

Citizens Advisory Committee Meeting #4
December 3, 2020



Meeting Agenda

- Welcome and introductions
- Project status
- Draft Noise Exposure Map
 - report availability and comment period
- Second public workshop and public hearing
 - December 8, 2020
- Overview of NEM Update
- Overview of NCP Amendments
- Next steps
- CAC member discussion

Piedmont Triad Airport Authority

- **Kevin Baker, Executive Director**
 - Part 150 Airport Sponsor
- **Alex Rosser, Chief Operating Officer**
 - Part 150 Program Manager
- **Suzanne Akkoush, Project Manager – Noise Program**
 - Part 150 Project Manager



Part 150 Consultant Team

- **Gene Reindel, HMMH Vice President**
 - Part 150 Principal
- **Bob Mentzer, HMMH Principal Consultant**
 - Part 150 Project Manager
- **Ron Miller, Ron Miller & Associates**
 - Part 150 Public Outreach



CAC Members

Name	Jurisdiction	Name	Jurisdiction
Janet Mazzurco, Chair	Greensboro	Ed Levick	High Point
Stan Tennant, Co-Chair	Greensboro	Thad Juszczak	High Point
Scott McInnis	Greensboro	Keith Brown	High Point
Steve Johnson	Greensboro	Erin Randall	High Point
Alyson Best	Greensboro	Bill Nagy	High Point
Sebastian King	Guilford County	Michael Lopez	Summerfield
Sharon Kasica	Guilford County	Lawrence Straughn	Jamestown
Toneq McCullough	Winston-Salem	George McClellan	Oak Ridge
Clarence Lambe	Forsyth County	Bob Prescott	Kernersville



Project Status



Part 150 Update Status

We are here

Noise Study Database

- Review Previous NEM and Studies
- GIS and land use data
- Flight track data
- Operational forecasts
- Setup AEDT model

Develop Noise Exposure Maps

- Prepare aviation forecast
- Develop noise contours for existing and forecast conditions
- Noise impact evaluation for > DNL 65 dB
- Prepare maps in accordance with 14 CFR Part 150

Review Current Noise Compatibility Program

- Operational measures
- Land Use Measures
- Program Measures

Noise Exposure Map Report

- Document input data
- Document Land Use, Flight Tracks and DNL contours
- Provide population and housing counts
- Draft Report

Public Process

- Draft report available for public review
- Public Workshop
- Response to comments received in Final report
- Final report submittal to FAA



Part 150 Update Public Process

- This is the final of four TAC/CAC meetings
 - First - June 2019
 - Second - October 2019
 - Third - held virtually, May 2020
- First Public Workshop - June 27, 2019
- Second Public Workshop will present Study results on December 8, 2020
- CAC NCP Workshop - held virtually, August 2020
- Presentations for all prior meetings available at <https://ptipart150update.com/public-outreach/>



Draft Report Summary




Draft Report Availability and Comment Period

- Comment period on draft NEM report and proposed NCP amendments is from November 17 – December 17
- Draft NEM and proposed NCP amendments report is available
 - On the PTI Part 150 website, at: <https://ptipart150update.com/documents/>
 - At one physical location:
 - PTAA office, 1000A Ted Johnson Parkway, Greensboro, NC 27409
 - Available during normal business hours
- Draft report availability and comment period advertised through:
 - Legal advertisements in newspapers
 - Press release
 - 2nd project newsletter posted on website and emailed to contact list
 - TAC and CAC meeting



Second Newsletter

- Advertises 2nd workshop and hearing
- Posted on PTI Part 150 website
 - [PTI Part150 Newsletter2.pdf](#)
- Distributed November 17th
- Distributed to PTAA email distribution list
 - based on prior involvement/interest



Part 150 Study Update

Piedmont Triad International Airport

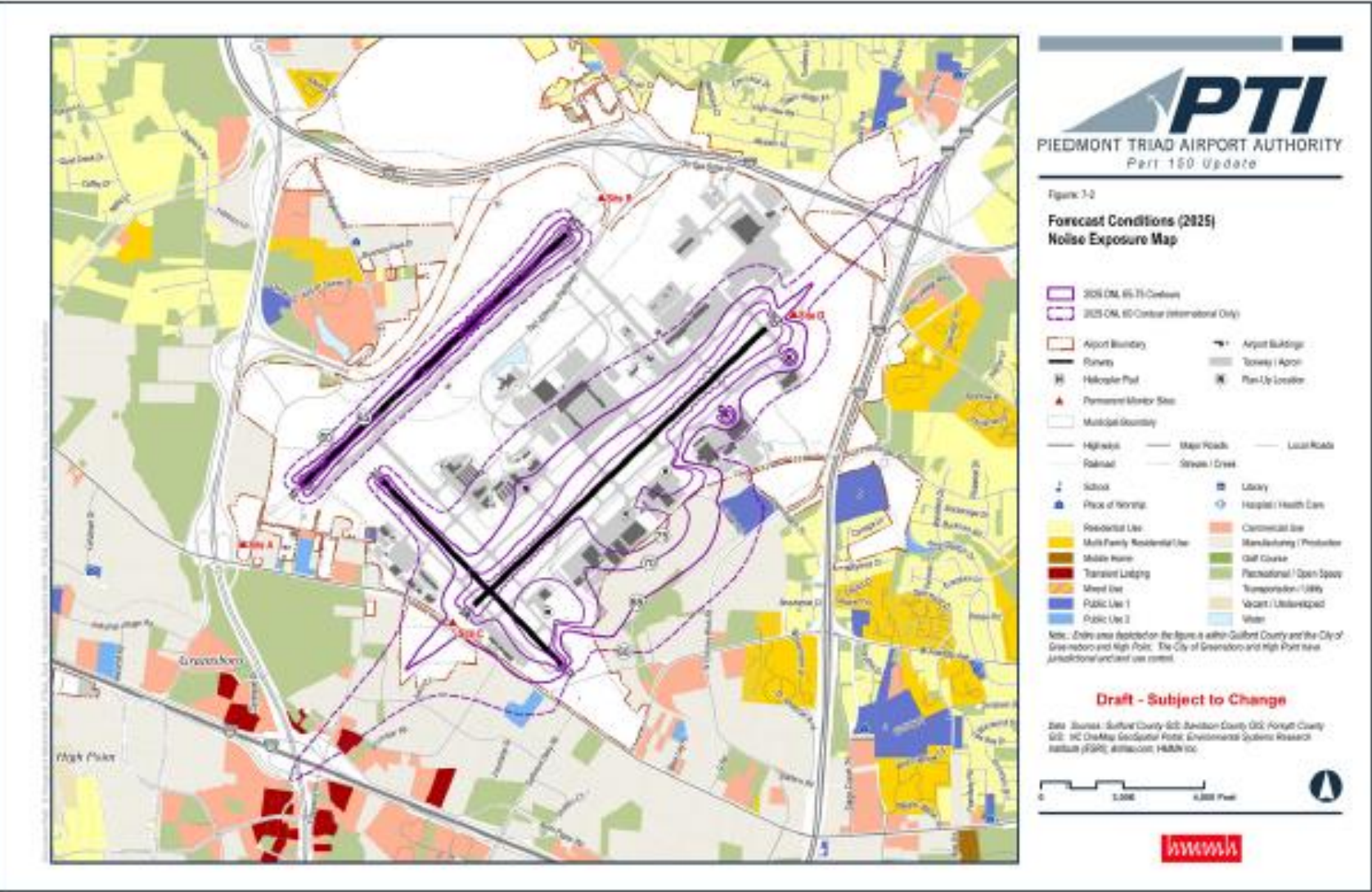
Newsletter #2 | November 17, 2020

As part of the on-going Part 150 Update Study, the Piedmont Triad Airport Authority (PTAA) has completed the Draft Noise Exposure Map (NEM) Update and proposed amendments to the Noise Compatibility Program (NCP) pursuant to the requirements of 14 CFR Part 150 for Piedmont Triad International Airport (PTI). The Draft PTI NEM Update and NCP Amendment document is available for public review at: <https://ptipart150update.com/documents/> or in person at the PTAA's offices. Public comments will be accepted through December 17, 2020 at 5:00 P.M.

Noise Exposure Map

The NEM describes the airport layout and operation, aircraft-related noise exposure, land uses in the airport environs and the resulting noise/land use compatibility, for existing (2020) and five-year forecast conditions (2025) at PTI. The outdoor noise environment, in relation to airport noise compatibility, is quantified using a computer model in terms of the Day-Night Average Sound Level (DNL) metric. The DNL represents aircraft noise as it occurs over a 24-hour period, with one important note: DNL treats nighttime noise differently from daytime noise. In determining DNL, it is assumed that the sound levels occurring at night (defined as 10 p.m. to 7 a.m.) are 10 dB (decibels) louder than they really are. This 10 dB weighting is applied to represent that noise events at night are often perceived to be more intrusive.

There are no non-compatible land uses within the PTI 2020 or 2025 NEM DNL contours. The 2025 NEM is presented below.



PTI
PIEDMONT TRIAD AIRPORT AUTHORITY
Part 150 Update

Figure 1-1
Forecast Conditions (2020)
Noise Exposure Map

Legend:

- 2020 DNL 65-70 Contour
- 2025 DNL 65-70 Contour
- 2020 DNL 70-75 Contour
- 2025 DNL 70-75 Contour
- 2020 DNL 75-80 Contour
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- 2020 DNL 90-95 Contour
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- 2025 DNL 95-100 Contour
- 2020 DNL 100-105 Contour
- 2025 DNL 100-105 Contour
- 2020 DNL 105-110 Contour
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- 2020 DNL 110-115 Contour
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DRAFT - Subject to Change

Map: Noise, Surface, and Air Quality Data. Data Source: Federal Aviation Administration (FAA) and Piedmont Triad Airport Authority (PTAA). Map Date: 2020. All rights reserved.

hmmh

Piedmont Triad International Airport
1000A Ted Johnson Parkway
Greensboro, NC 27409
flyfrompti.com

PTI
PIEDMONT TRIAD AIRPORT AUTHORITY

Noise Compatibility Program Amendments

In accordance with Part 150 regulations, PTAA developed an NCP in 2007 to improve the aircraft noise and land use compatibility around PTI. The PTI NCP includes three categories of measures: (1) *noise abatement measures* intended to reduce aircraft noise at the source, (2) *land use measures* intended to mitigate existing non-compatible land uses and to discourage the introduction of new non-compatible land uses and (3) *program measures* intended to implement and monitor compliance with the PTI NCP.

As part of the 2020 Part 150 Update, the implementation status and compliance with each of the 20 PTAA-recommended and FAA-approved 2007 NCP measures was determined and is provided in the document. After review of the 20 NCP measures, PTAA determined no need to update the NCP at this time but recommends several amendments to the existing measures.

There were 12 noise abatement measures in the 2007 PTI NCP. For the 2020 amended NCP, it is recommended that six (6) remain as written, three (3) be amended, and three (3) be eliminated, resulting in a remaining set of nine (9) recommended noise abatement measures.

There were five (5) land use measures in the 2007 PTI NCP. Of the five land use measures, PTAA has completed or is in the process of completing the implementation of two of the measures and implementation was not required for two others. Therefore, it is recommended only one (1) remain as provided in the 2007 PTI NCP and that the other four (4) be eliminated.

There were three (3) program management measures in the 2007 PTI NCP. Of the three program management measures, it is recommended that all three (3) remain as provided in the 2007 PTI NCP.

Virtual Public Workshop for the Draft Part 150 Update Document and Public Hearing on the Proposed NCP Amendments for Piedmont Triad International Airport

Information and an opportunity to ask questions related to the Draft PTI NEM Update will be provided to the public through a Virtual Public Workshop. Immediately following the Workshop, PTAA will begin a public hearing to take public comments regarding the recommended amendments to the NCP. The details of the date, time, and format of the Workshop and Hearing are listed below.

Virtual Public Workshops:

Date: Tuesday, December 8, 2020
Time: 6:00 P.M. - 7:30 P.M.

Location: The Virtual Public Workshop and Hearing will be conducted online via Zoom.

Virtual Public Hearing:

Date: Tuesday, December 8, 2020
Time: 7:30 P.M. - 8:30 P.M.

Please Register in Advance: To register please email Part150@gsoair.org or call Suzanne Akkoush at 336.665.5664. Registration to speak is required for all who wish to provide oral comments related to the NCP amendments during the Public Hearing.

The public workshop will begin with a presentation that will include information regarding the 14 CFR Part 150 process, the NEM Update and details on the proposed amendments to the PTI NCP. Following the 30-minute presentation, attendees will be afforded the opportunity to ask questions, which will be answered by members of the Study Team.

During the public hearing, the public will have an opportunity to provide oral comments for the record on the recommended NCP amendments.

All comments (written and oral) will be included in the Final PTI NEM Update and NCP Amendment document and PTAA will submit the document to the Federal Aviation Administration (FAA) for acceptance of the document as being prepared in accordance to 14 CFR Part 150 and to approve or disapprove the individual amendments.

Stay Connected

For more information or to submit comments and feedback, the PTAA has several ways you can participate and stay informed:

1. To make comments, give feedback, or ask questions, please email us at Part150@gsoair.org. You can also mail your comments to PTAA at 1000A Ted Johnson Parkway, Greensboro, NC, 27409.
2. The project website (<http://PTIPart150Update.com>) is updated regularly with project documents, meeting announcements, and other general information about the study. Register here to join the mailing list and receive project updates.
3. PTAA noise information website provides broader information: <https://flyfrompti.com/noise-information/>



Second Public Workshop and Public Hearing

December 8, 2020



Overview of Workshop and Hearing

Public Workshop:

- Tuesday, December 8, 2020 from 6 – 7:30 p.m.
 - Virtual Zoom platform
 - 30-minute presentation including information on:
 - the 14 CFR Part 150 process,
 - the NEM Update, and
 - details on the proposed amendments to the PTI NCP
 - Informal Question and Answer period with the study team

Public Hearing:

- Tuesday, December 8, 2020 from 7:30 – 8:30 p.m.
 - Virtual Zoom platform
- Advanced registration is required to attend workshop or to provide oral comments related to the NCP amendments
 - To register: please email Part150@gsoair.org or call Suzanne Akkoush at 336.665.5664
- All comments (written and oral) will be included in the Final PTI NEM Update and NCP Amendment document



Draft Report: NEM Update and NCP Amendments



Overview of the Draft Report

Main Body

- Executive Summary
 - Sponsor's Certification (Executed in final submission)
 - FAA Checklist
 - Glossary
- 1. Introduction to Noise Compatibility Planning
- 2. Airport Background
- 3. Land Use
- 4. Existing Noise Compatibility Program
- 5. Noise Measurement Program
- 6. Development of Noise Exposure Contours
- 7. Noise Exposure Maps and Land Use Compatibility
- 8. Noise Compatibility Program Amendments
- 9. Stakeholder Engagement

Appendices

- A. Fundamentals of Characterizing Sound, Noise Effects and Metrics
- B. FAA Acceptance of Previous NEM and FAA Record of Approval for 2007 NCP
- C. Noise Monitoring Program
- D. Documentation of the Noise Modeling Process
- E. Advisory Committees
- F. Public Outreach
- G. Public Comments
(these will be included and addressed in the final submission to FAA)



2020 and 2025 NEM

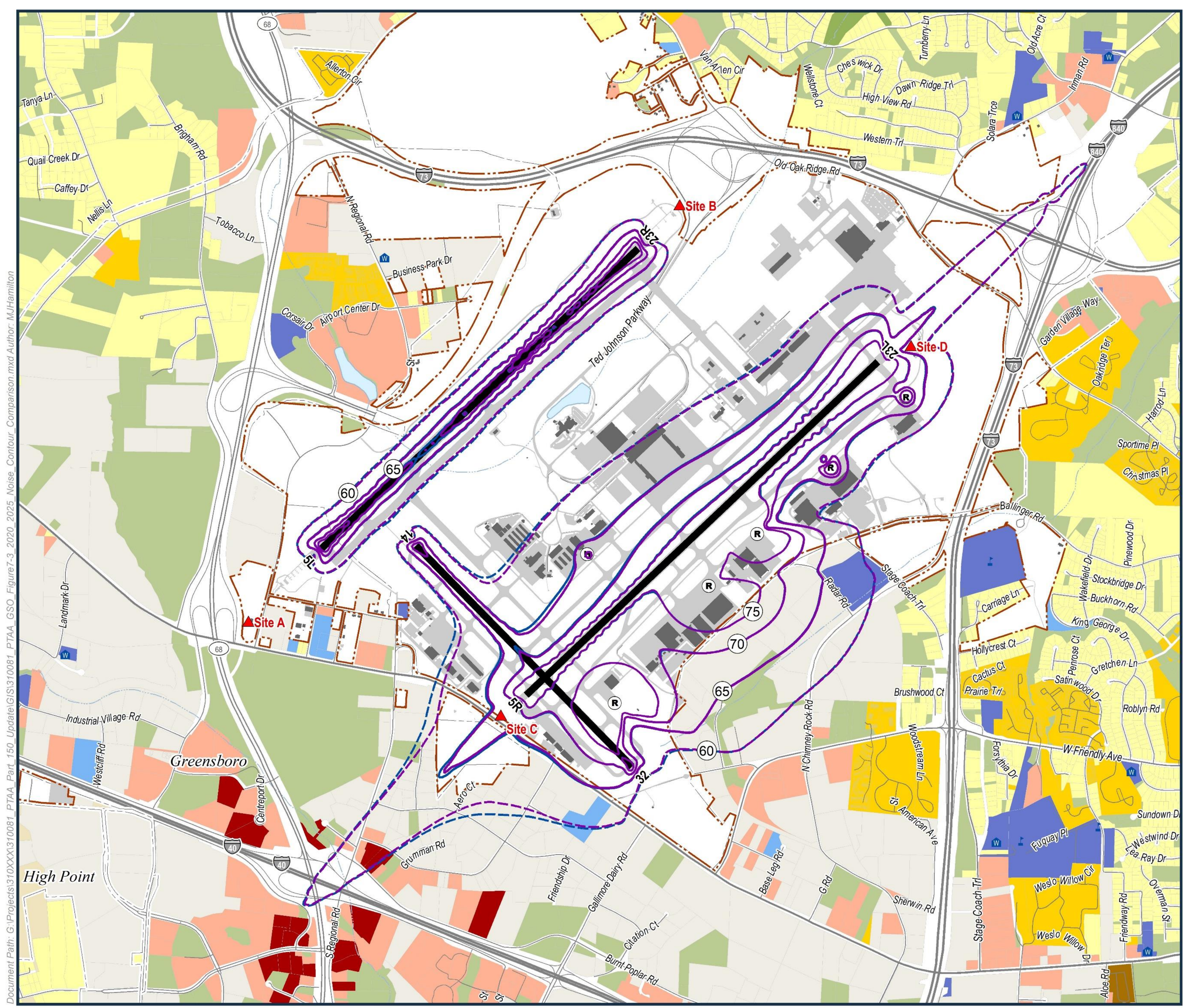
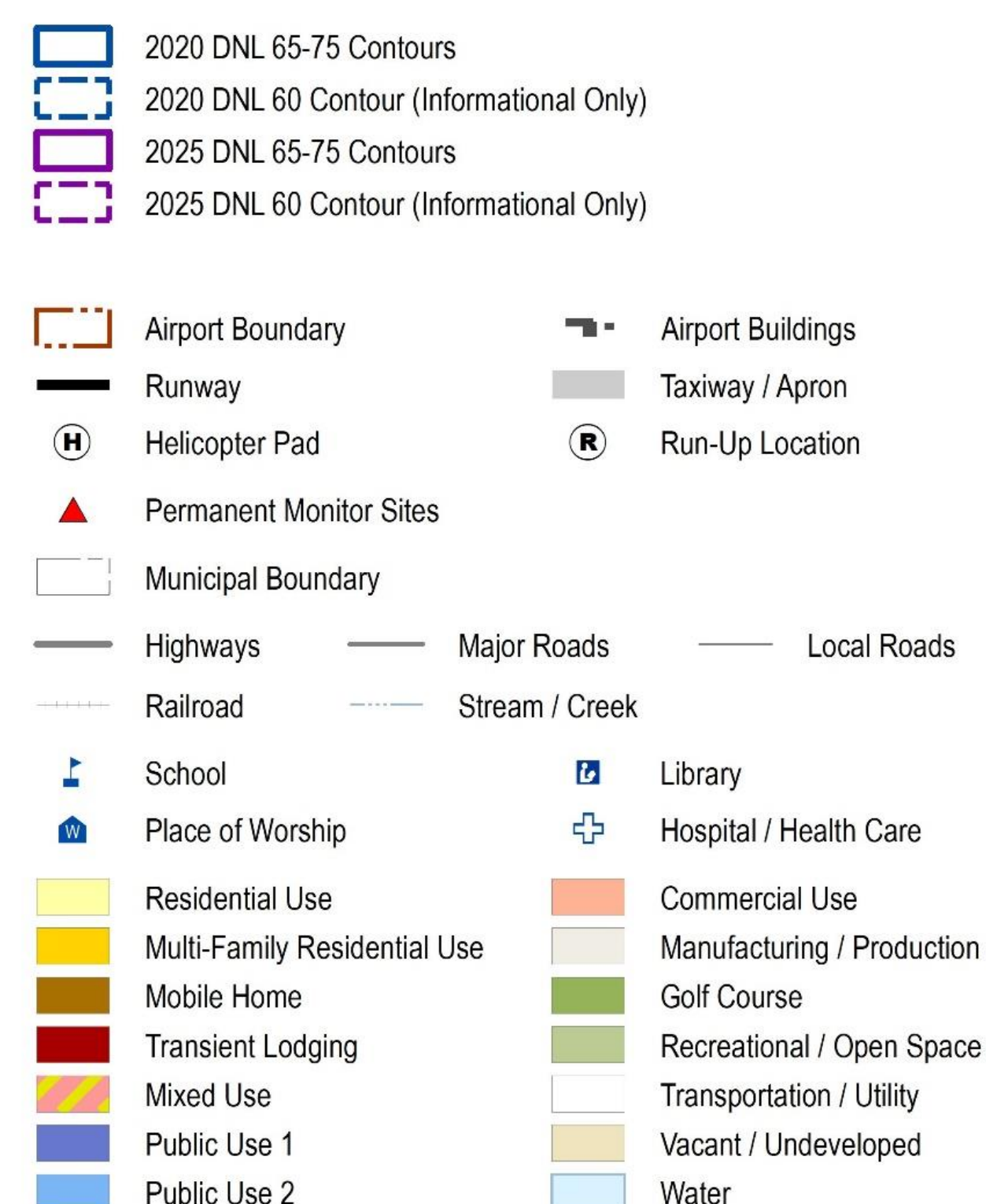


Figure: 7-3

Existing Conditions (2020) and Forecast Conditions (2025) Noise Exposure Map Comparison



Note: Entire area depicted on the figure is within Guilford County and the City of Greensboro and High Point. The City of Greensboro and High Point have jurisdictional and land use control.

Draft - Subject to Change

Data Sources: Guilford County GIS; Davidson County GIS; Forsyth County GIS; NC OneMap GeoSpatial Portal; Environmental Systems Research Institute (ESRI); AirNav.com; HMMH Inc.



- No non-compatible land use within the 2020 or 2025 65 DNL contour
- No need for additional NCP measures

Noise Level (DNL)	Existing Contours (2020)		Forecast Contours (2025)	
	Estimated Population	Estimated Number of Housing Units	Estimated Population	Estimated Number of Housing Units
65 – 70 dB	0	0	0	0
70 – 75 dB	0	0	0	0
75+ dB	0	0	0	0
Total	0	0	0	0



Proposed Amendments to the NCP



Review of Noise Compatibility Program (NCP)

The FAA approved, in whole or in part, all 20 PTAA-recommended NCP measures in the previous Part 150 Study.

Noise Abatement Measures

1. Evaluate Noise Barriers *
2. Preferred Night Runway Use **
3. Night Runway Use Assignments **
4. Night Southbound Departure Corridor from Runway 23L **
5. Night Departure Procedures from Runway 23R **
6. Night Northbound Departure Corridor from Runway 23L **
8. Departures from Runway 05L **
9. Departures from Runway 05R **
10. Restrictions on Use of APUs
11. Noise Abatement Departure Profiles **
12. Noise Abatement Approach Procedure **
13. Altitude for Downwind Legs **

Land Use Measures

1. Acquire Noise-Sensitive Properties where DNL Exceeds 70 dB
2. Sound Insulation of Noise-Sensitive Structures where DNL Exceeds 65 dB
3. Optional Acquisition of Avigation Easements for Noise-Sensitive Structures where DNL Exceeds 65 dB
4. Other Assistance for Owners of Residential Property where DNL Exceeds 65 dB *
5. Pursue Compatible Use Zoning where DNL Exceeds 65 dB

Programmatic Measures

1. Establish a Noise Monitoring Function at PTI
2. Publish DNL Contours at 60 dB and Above
3. Install and Operate an Aircraft Noise and Operations Monitoring System

Note: There is no Noise Abatement Measure number 7 since it was included in Noise Abatement Measure number 5 during the course of the original study.

** - Approved for further study.*

*** - Approved as voluntary measures subject to traffic, weather, and airspace safety and efficiency.*



Overview of NCP Amendments

Noise Abatement (NA) Measures

- Of the 12 original NA measures, it is recommended that:
 - Six remain as written
 - Three be amended
 - Three be eliminated

Original Number	Noise Abatement Measure	Amended Number	Recommended Amendment
NA-1	Evaluate Noise Barriers	NA-1	No change
NA-2	Preferred Night Runway Use	NA-2	Clarify description
NA-3	Night Runway Use Assignments	--	Eliminate
NA-4	Night Southbound Departure Corridor from Runway 23L	NA-3	Include northeast destinations and initiate development of an RNAV procedure
NA-5	Night Departure Procedures from Runway 23R	NA-4	Incorporate NA-3, Item 5
NA-6	Night Northbound Departure Corridor from Runway 23L	--	Eliminate
NA-7	Not Applicable	--	--
NA-8	Departures from Runway 5L	NA-5	No change
NA-9	Departures from Runway 5R	NA-6	No change
NA-10	Restrictions on Use of APUs	NA-7	No change
NA-11	Noise Abatement Departure Profiles	--	Eliminate
NA-12	Noise Abatement Approach Procedures	NA-8	No change
NA-13	Altitude for Downwind Legs	NA-9	No change

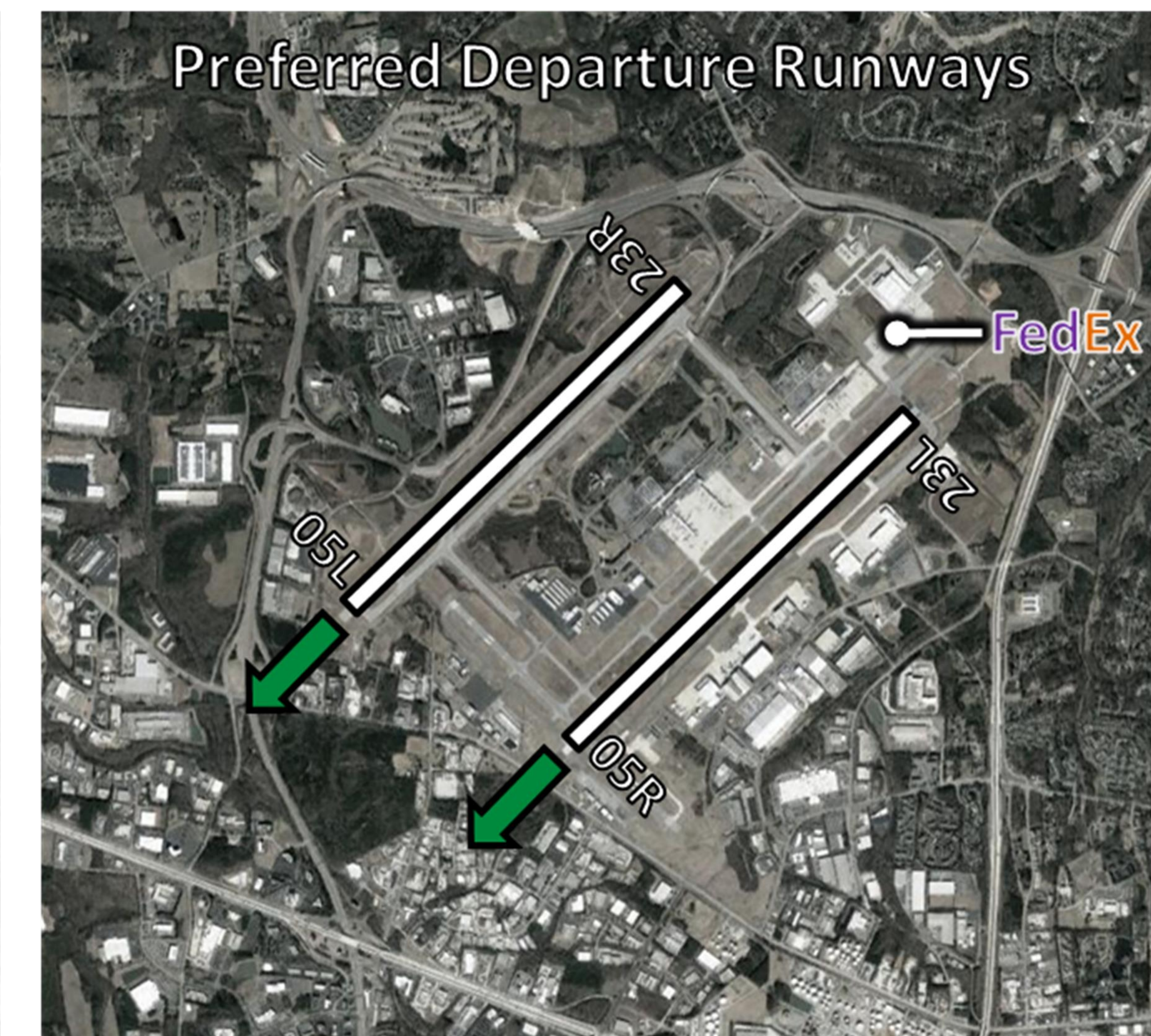
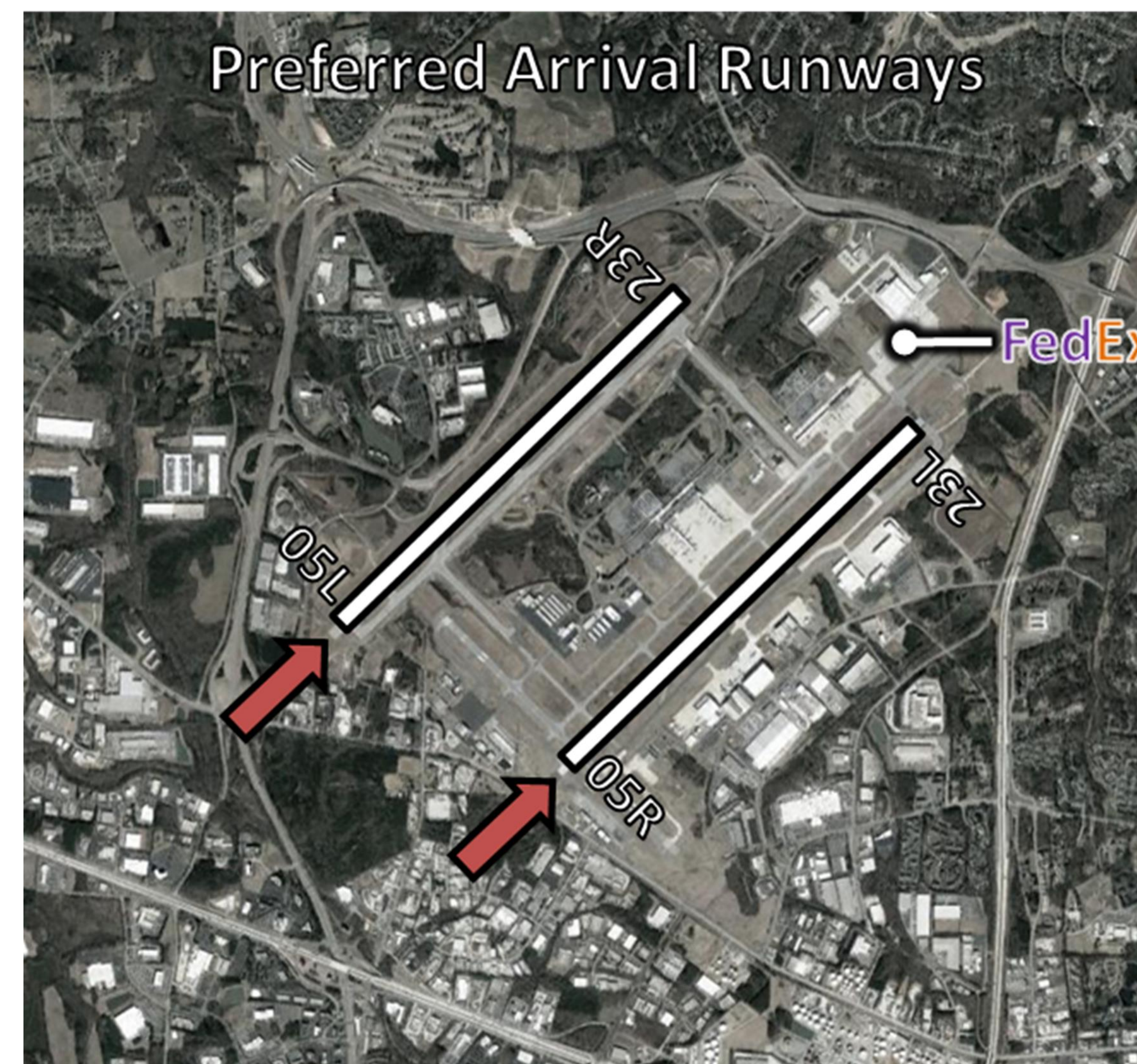


Overview of NCP Amendments

NA-2: Preferred Night Runway Use (Clarify description)

“When new runway 5L/23R is available for use during the nighttime hub operations, designate runways 23L and 23R as the preferred departure runways and runways 5L and 5R as the preferred arrival runways. ...”

- **Implementation status:** implemented head-to-head operations; equal runway use for arrivals not implemented because simultaneous use of the parallel runways not required by hub activity levels
- **Compliance:** 75% of hub arrivals and 92% of hub departures
- **Recommendation:** Modify by rewording the description. The wording describing balanced use of the parallel runways will be removed to allow the tower the flexibility to assign runways at night.



Overview of NCP Amendments

NA-3: Night Runway Use Assignments (Eliminate)

“When new runway 5L/23R is available for use during the nighttime hub operations, designate the following pattern of runway use...”

- **Note:** the measure included six parts to differentiate between retrofitted Stage 3 aircraft and the rest of the fleet. Retrofitted Stage 3 commercial aircraft no longer operate in the U.S.
- **Implementation status:**
 - Parts 1, 3 and 6 apply to retrofitted Stage 3 aircraft – not applicable
 - Parts 2 and 4 apply to simultaneous use of the parallel runways – not applicable
 - Part 5 applies to aircraft departing Runway 23R – will be addressed with NA-5
- **Compliance:** not applicable
- **Recommendation:** Eliminate this measure because:
 - It has not been implemented
 - There are no retrofitted Stage 3 aircraft operating in the current US commercial fleet
 - Agreements with air carriers (described in the FAA’s ROA) have not been developed; tower provides runway assignments
 - PTAA and the tower prefer to retain runway use flexibility

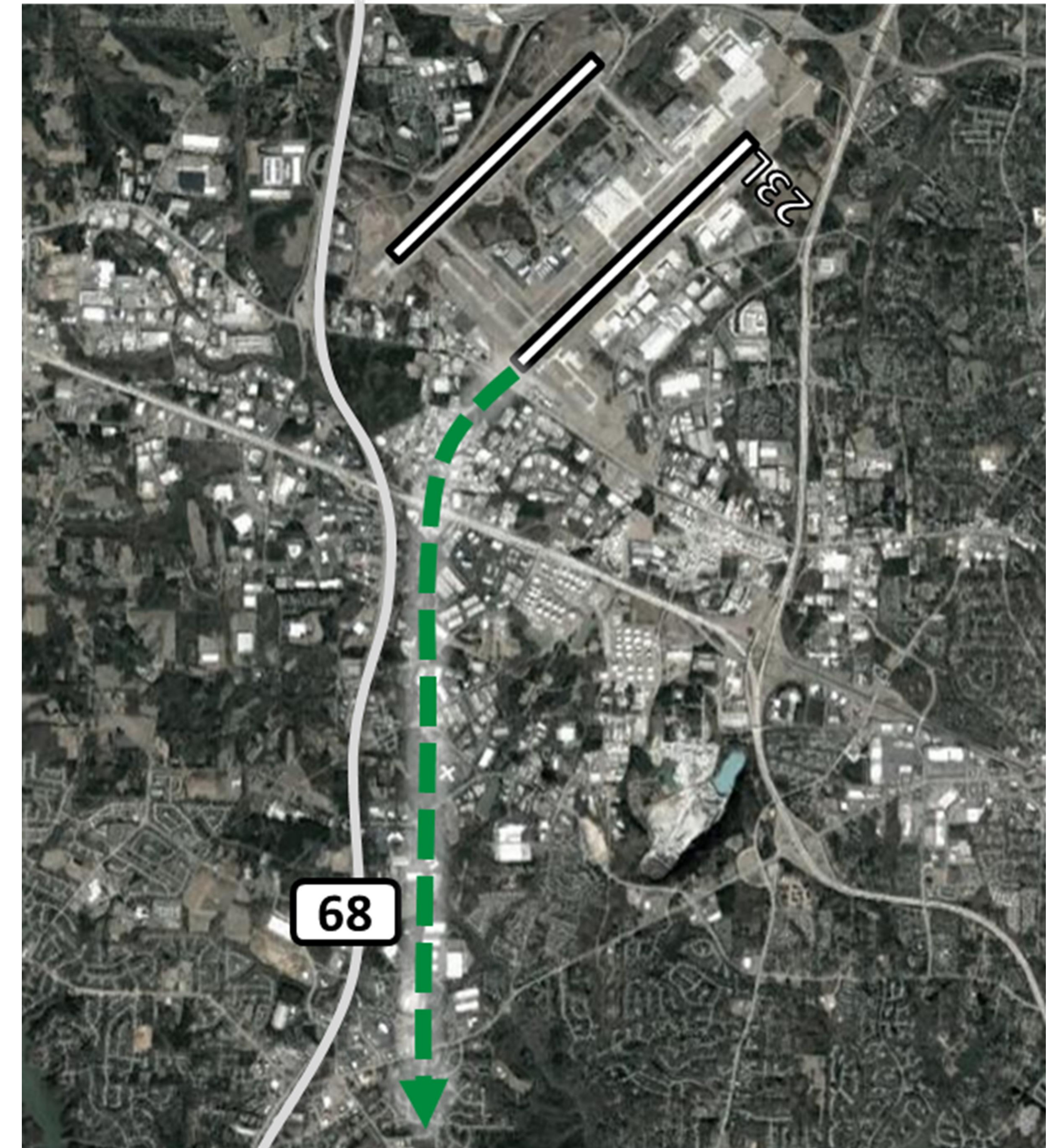


Overview of NCP Amendments

NA-4: Night Southbound Departure Corridor from Runway 23L (Modify description)

“... establish a new nighttime departure procedure for aircraft departing runway 23L for southern destinations so that the initial flightpath is in a southerly direction, east of and parallel to NC Highway 68. ... Aircraft may make a transition to another heading after reaching 4,000 feet MSL.”

- **Implementation status:** implemented
- **Compliance:** 79% of all Runway 23L nighttime southbound departures make the initial turn; 93% of these reach 4,000 feet MSL before transitioning to another heading
- **Recommendation:** Modify the measure by rewording the description to include northeast destinations and development of an RNAV procedure. This will reflect how the measure was implemented by FAA. Adding an RNAV would potentially increase compliance.



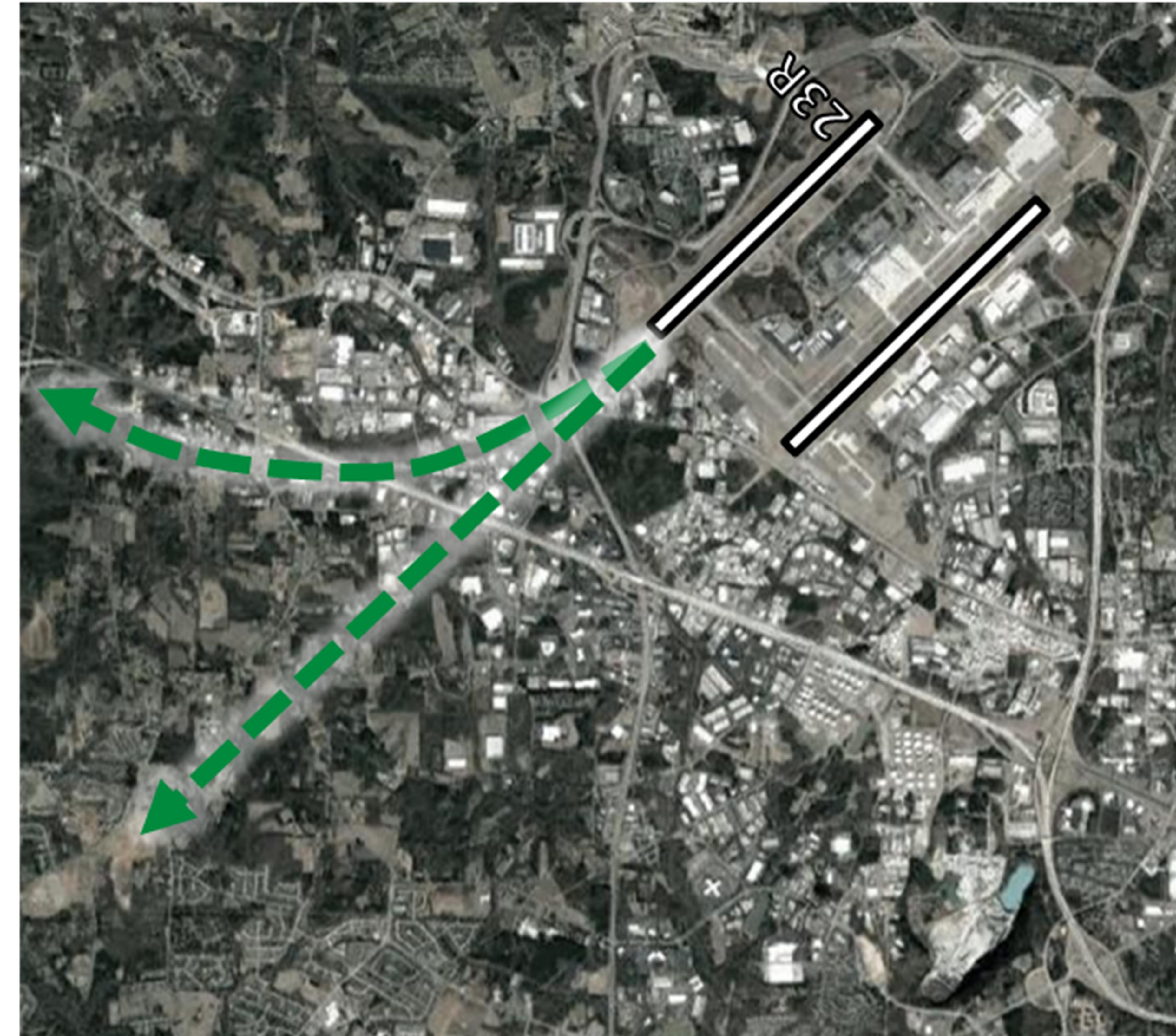
Overview of NCP Amendments

NA-5: Night Departure Procedures from Runway 23R (Modify description)

NA-5: “Aircraft departing runway 23R at night and turning right shall initiate the right departure turn as soon as practicable.”

NA-3, Part 5: “Aircraft departing on runway 23R and needing to make a transition to a more southerly heading should delay the transition until they have reached an altitude of 4,000 MSL”

- **Implementation status:** implemented (NA-5); not implemented (NA-3, Part 5)
- **Compliance:** 100% (NA-5); 0% (NA-3, Part 5)
- **Recommendation:** Modify NA-5 by incorporating NA-3, Part 5, combining all Runway 23R departure procedures in one measure.

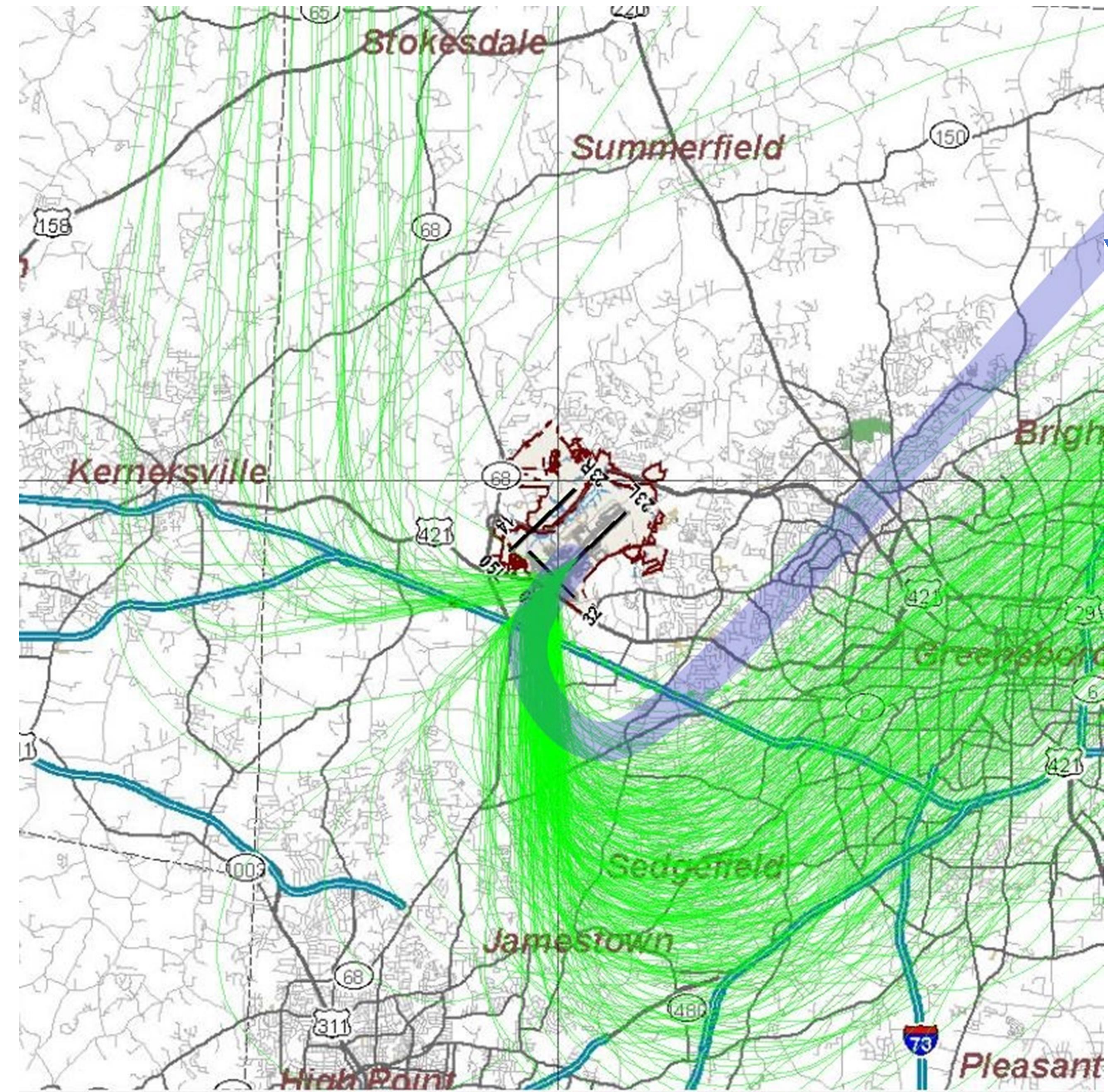


Overview of NCP Amendments

NA-6: Night Northbound Departure Corridor from Runway 23L (Eliminate)

“...establish a new nighttime departure procedure for aircraft departing from runway 23L to northern destinations to initiate a left departure turn to a northeasterly heading as soon as practicable.”

- **Implementation status:** not implemented
- **Compliance:** not applicable
Of the operations that turned left, the majority follow the initial flight path parallel to and east of NC Highway 68, as prescribed in NA-4, not executing an immediate turn to a northeasterly heading.
- **Recommendation:** Eliminate this measure because it has not been implemented as written. FAA incorporated the northbound Runway 23L departures into the NA-4 measure.



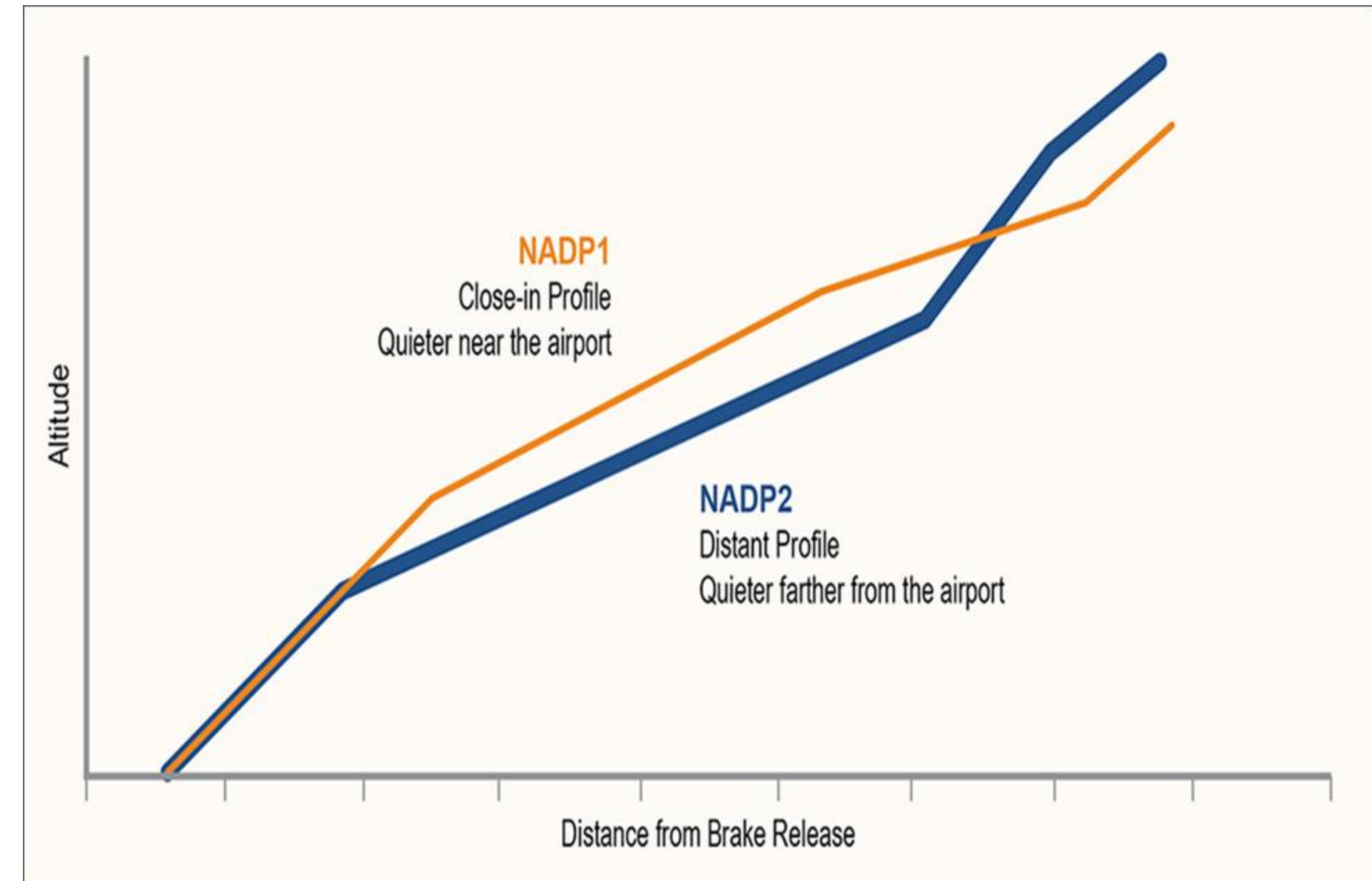
2007 NCP
NA-6
departure
path

Overview of NCP Amendments

NA-11: Noise Abatement Departure Profiles (Eliminate)

“Under this measure, the Piedmont Triad Airport Authority (PTAA) designates the Close-in Noise Abatement Departure Profile (NADP) for jet departures on runways 5L and 5R beginning with the opening for use of new runway 5L/23R.”

- **Implementation status:** not implemented; likely not as effective with the newer generation aircraft
- **Compliance:** not applicable
- **Recommendation:** Eliminate this measure because it has not been implemented, jet aircraft operators are likely using their standard departure procedures rather than the NADP-1 procedure to depart PTI, and NADP-1 is likely not as effective with the newer generation aircraft in operation at PTI today.



Source: Civil Air Navigation Services Organization and Airports Council International, “Managing the Impacts of Aviation Noise - A Guide for Airport Operators and Air Navigation Service Providers,” September 2015

Overview of NCP Amendments

Land Use (LU) Measures

- Of the 5 original LU measures, it is recommended that:
 - Four be eliminated
 - One remain as written

Program Management (PM) Measures

- Of the 3 original PM measures, it is recommended that:
 - All three remain as written

Original Number	Land Use Measures	Amended Number	Recommended Amendment
LU-1	Acquire Noise-Sensitive Properties where DNL Exceeds 70 dB	--	Eliminate as this measure is complete
LU-2	Sound Insulation of Noise-Sensitive Structures where DNL Exceeds 65 dB	--	Eliminate as this measure is nearly complete
LU-3	Optional Acquisition of Avigation Easements for Noise-Sensitive Structures where DNL Exceeds 65 dB	--	Eliminate as this measure was not required to eliminate noncompatible land use
LU-4	Other Assistance for Owners of Residential Property where DNL Exceeds 65 dB	--	Eliminate as this measure was not required to eliminate noncompatible land use
LU-5	Pursue Compatible Use Zoning where DNL Exceeds 65 dB	LU-1	No change

Original Number	Program Management Measures	Amended Number	Recommended Amendment
PM-1	Maintain a Noise Monitoring Function at PTI	PM-1	No change
PM-2	Publish DNL Contours for 60 DNL and Above	PM-2	No change
PM-3	Operate and Maintain an Aircraft Noise and Operations Monitoring System	PM-3	No change



Overview of NCP Amendments

LU-1: Acquire Noise-Sensitive Properties where DNL Exceeds 70 dB (Eliminate)

- **Implementation status:** Fully implemented and complete as required by the FAA EIS ROD
- **Recommendation:** Eliminate this measure because PTAA has fully implemented it and there are no residential units/noise sensitive land uses within the 2020 or 2025 70 DNL contours.

LU-2: Sound Insulation of Noise-Sensitive Structures where DNL Exceeds 65 dB (Eliminate)

- **Implementation status:** Fully implemented and nearly complete, as required by the FAA EIS ROD
- **Recommendation:** Eliminate this measure because PTAA has accepted the final grant for this program; PTAA prefers to eliminate the NCP measure under Part 150 because there are no residential units within the 2020 or 2025 65 DNL contours



Overview of NCP Amendments

LU-3: Optional Acquisition of Avigation Easements for Noise-Sensitive Structures where DNL Exceeds 65 dB (Eliminate)

- **Implementation status:** Not implemented
- **Recommendation:** Eliminate this measure because PTAA has not implemented it; PTAA preferred to either acquire the land or sound insulate the structures instead. There are no residential units within the 2020 or 2025 65 DNL contours.

LU-4: Other Assistance for Owners of Residential Property where DNL Exceeds 65 dB (Eliminate)

- **Implementation status:** Not implemented
- **Recommendation:** Eliminate this measure because PTAA has not studied these options further; PTAA preferred to either acquire the land or sound insulate the structures over pursuing this measure. There are no residential units within the 2020 or 2025 65 DNL contours.



Next Steps



Schedule of CAC Meetings & Public Workshops

Meeting	Date	Topic
CAC Meeting #1	June 26, 2019	Introduction to the Part 150 process
Public Information Workshop #1	June 27, 2019	Introduction to the Part 150 study
CAC Meeting #2	October 2, 2019	Noise modeling inputs
CAC Meeting #3	May 20, 2020	Noise modeling results and review of NCP measures
NCP Review Meeting	August 13, 2020	Review of existing NCP measures
CAC Meeting #4	December 3, 2020 (Today)	Presentation of the Part 150 Report
Public Information Workshop #2 and Public Hearing on NCP Amendments	December 8, 2020	Presentation of the study results and receive public comments



Next Steps

- Public Workshop and Hearing on December 8th
 - Note: PTAA is amending the NCP – no new measures needed
- Public comment period ends December 17th
- Responses to all comments received on or before December 17th will be included in the final report
- The final report to be submitted to FAA by the end of 2020
 - FAA will publish a record of acceptance of the NEMs and Report in the Federal Register
 - FAA will then have 180 days to approve or deny the PTAA-recommended NCP amendments



CAC Member Discussion



Adjournment

- Thank you for your participation in this process!
- Project contacts and websites
 - Suzanne Akkoush, Project Manager – Part 150 Study
 - Address emails to Part150@gsoair.org
 - Part 150 Website (PTIPart150Update.com) provides most relevant information
 - Will be updated regularly for public outreach purposes
 - PTAA noise information website provides broader information
 - <https://flyfrompti.com/noise-information/>

Thanks for participating and attending!

