

NOISE COMPATIBILITY PLANNING STUDY

Antonio B. Won Pat
International Airport

Public Hearing

October 29th, 2025



A.B. WON PAT INTERNATIONAL
AIRPORT GUAM

Agenda

- Introductions
- Roles and Responsibilities
- Aircraft Noise Terminology
- Part 150 Overview
- Status of Noise Exposure Map
- Noise Compatibility Program Overview
- Draft Recommended NCP Measures
 - Noise Abatement
 - Land Use
 - Program Management
- NCP Public Comment & Workshop

Introductions – Study Team

Antonio B. Won Pat International Airport



A.B. WON PAT INTERNATIONAL
AIRPORT GUAM

**A. B. Won Pat International Airport Authority,
Guam (GIAA)**

John M Quinata, Executive Manager

Dr. Ricky Hernandez, Deputy Executive Manager

Tony Laniog, GIAA Project Manager



Transportation Management Group

Frank Santos

Fred Tupaz

Project Team



Lynn Keeley
Project Manager

Matt Atkinson
Project Director

Greg Mayer
Airport Planner



Bob Mentzer
Technical Lead -
Aircraft Noise
Analysis

Gene Reindel
Technical Lead -
FAR Part 150



**EM Chen &
Associates**

Alan Chen
Local Project
Manager

ROLES AND RESPONSIBILITIES

Part 150 Study

Airport / GIAA

- Project sponsor
- Certification that documentation is true and accurate
- Recommends measures to address noncompatible land uses

FAA

- Certification that the documentation meets federal regulations and guidelines
- Approval of Airport-recommended guidelines

Consultant Team

- Overall project management, documentation, and outreach
- Aircraft noise analysis and abatement planning
- Noise compatibility analysis and planning
- Aviation forecast and airfield analysis

PAC

- Review study inputs, assumptions, analyses, documentation, etc.
- Input, advice, and guidance related to NEM & NCP development
- Support public workshop

Public Involvement

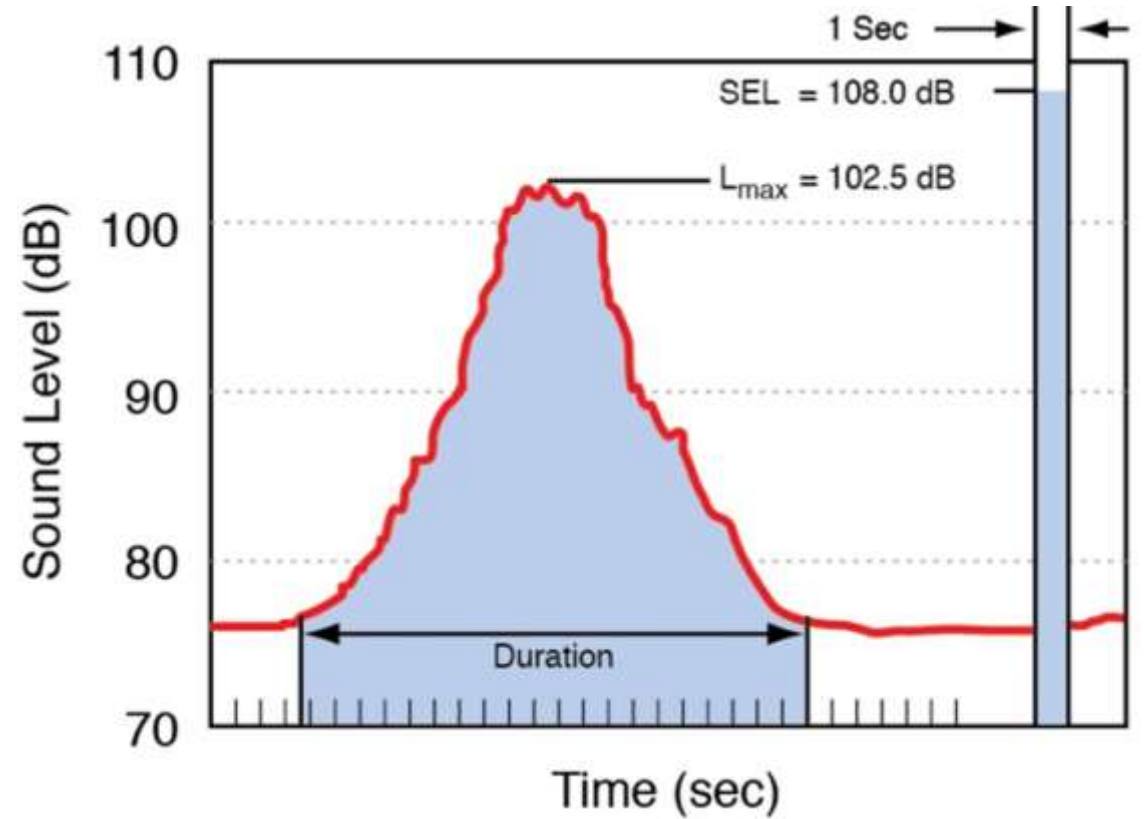
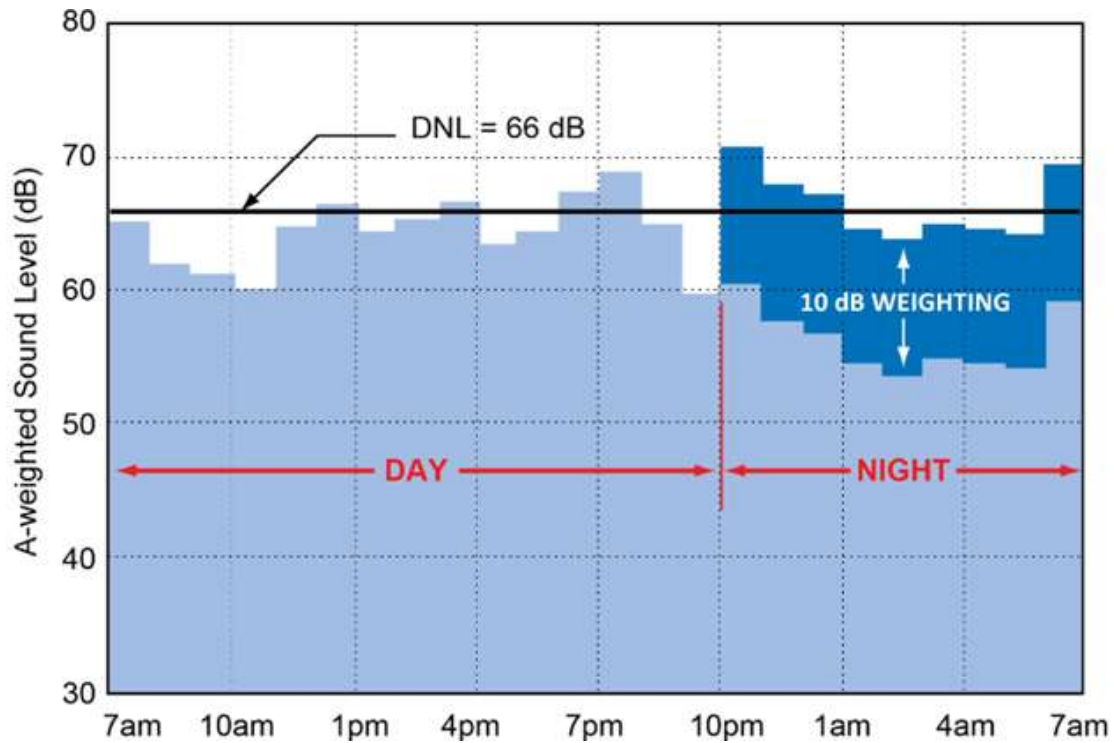
- Provide input on study during comment period
- Review public draft documents
- Attend public workshop



Aircraft Noise Terminology

AIRCRAFT NOISE TERMINOLOGY

- Maximum Noise Level (L_{max})
- Sound Exposure Level (SEL)
- Day-Night Average Sound Level (DNL)

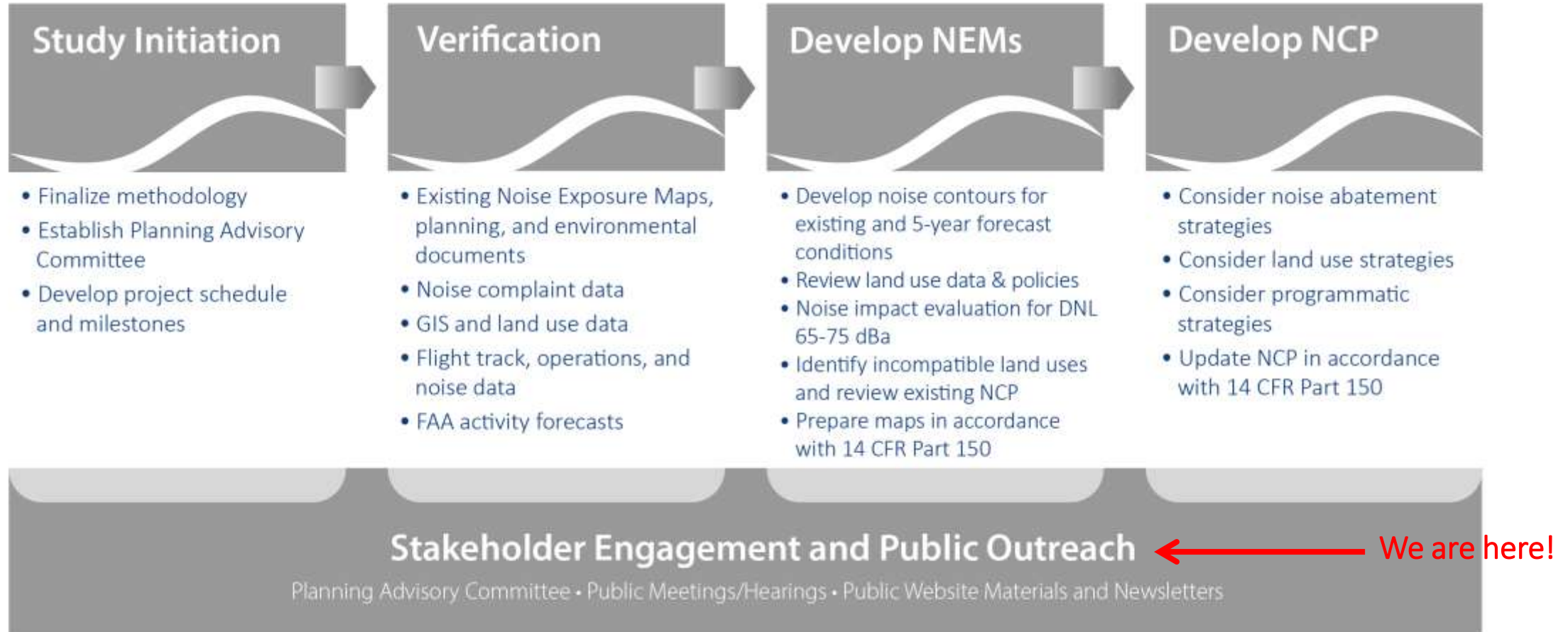


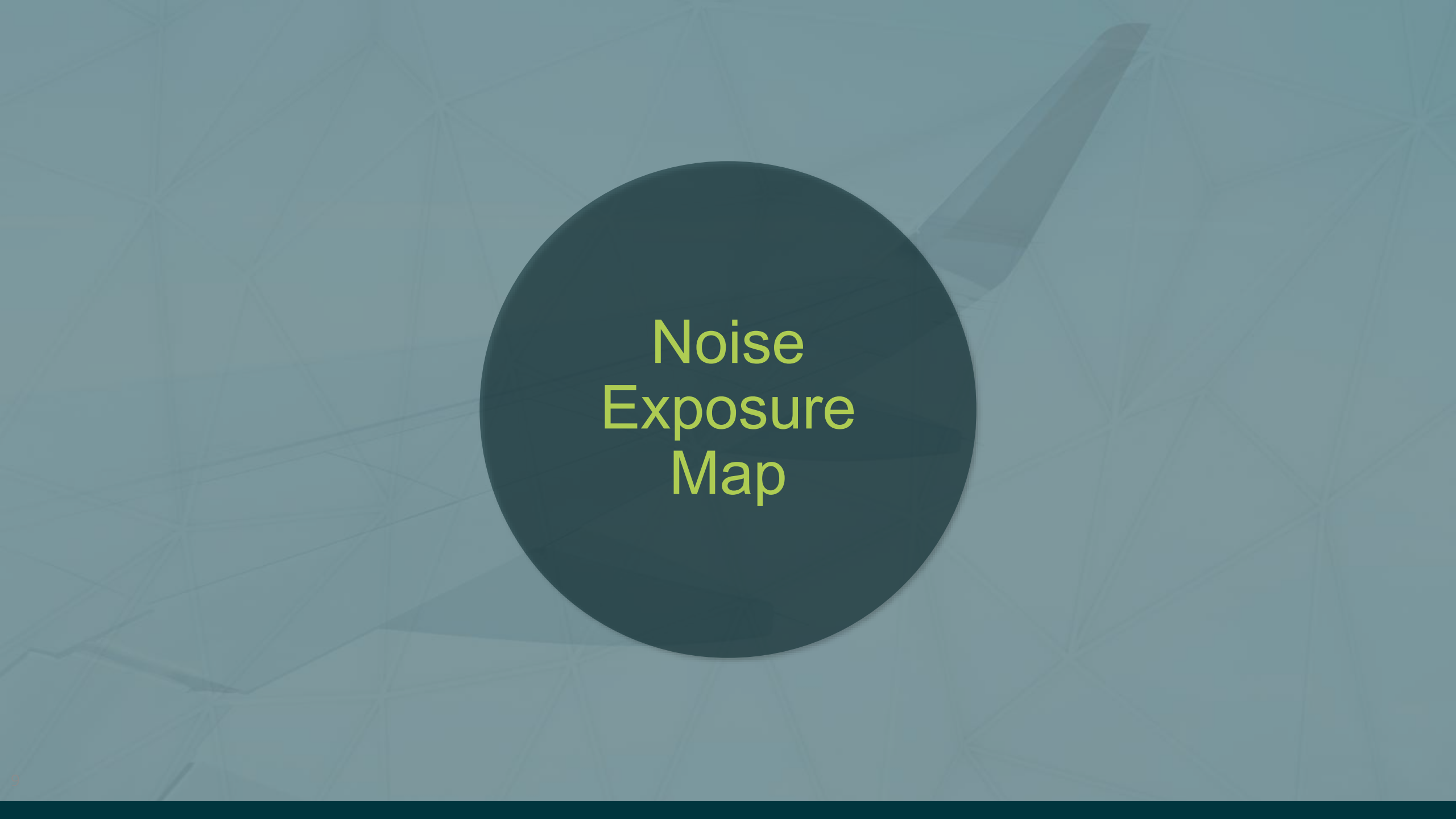


Part 150 Overview

PART 150 OVERVIEW

Study Process

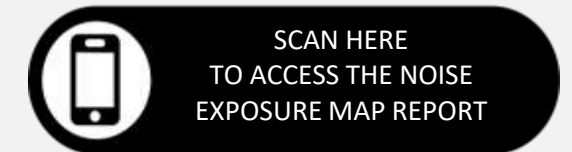




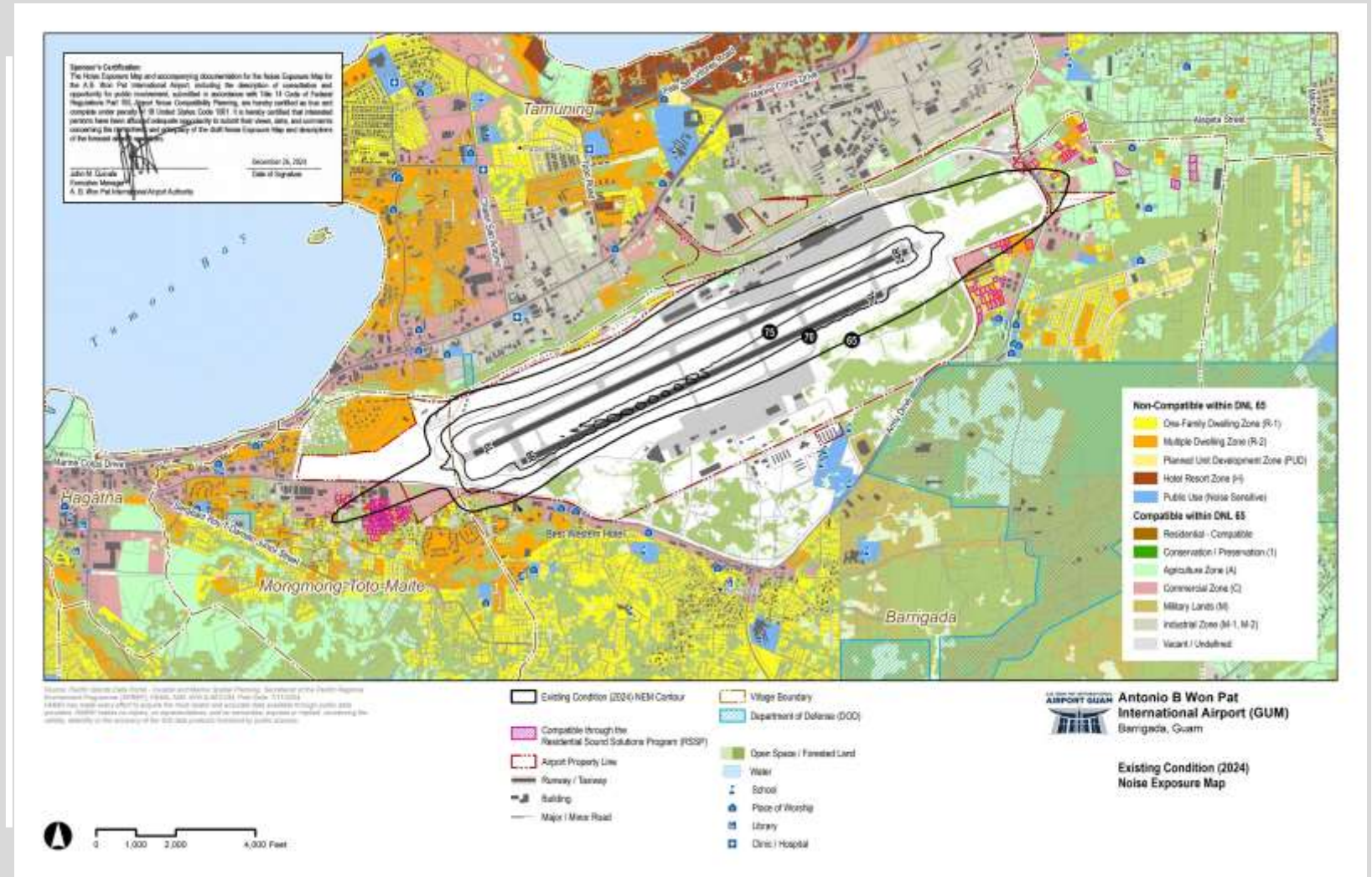
Noise Exposure Map

Status Update on the Noise Exposure Map (NEM) – Complete

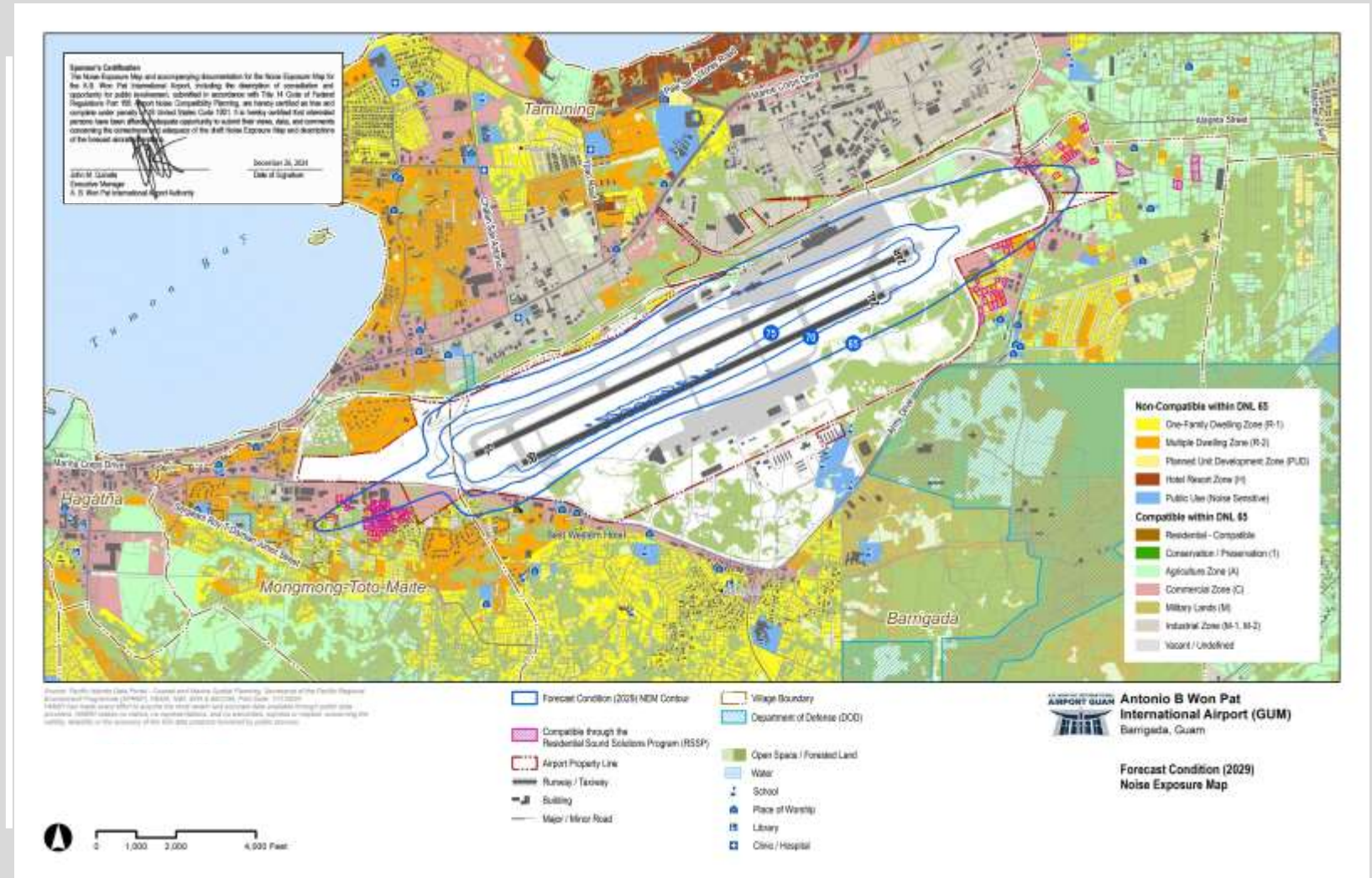
- Noise Exposure Map submitted to FAA in January 2025
 - FAA accepted the NEM as being completed in accordance with 14 CFR Part 150 on April 28, 2025
 - Public notice of NEM published in local newspapers

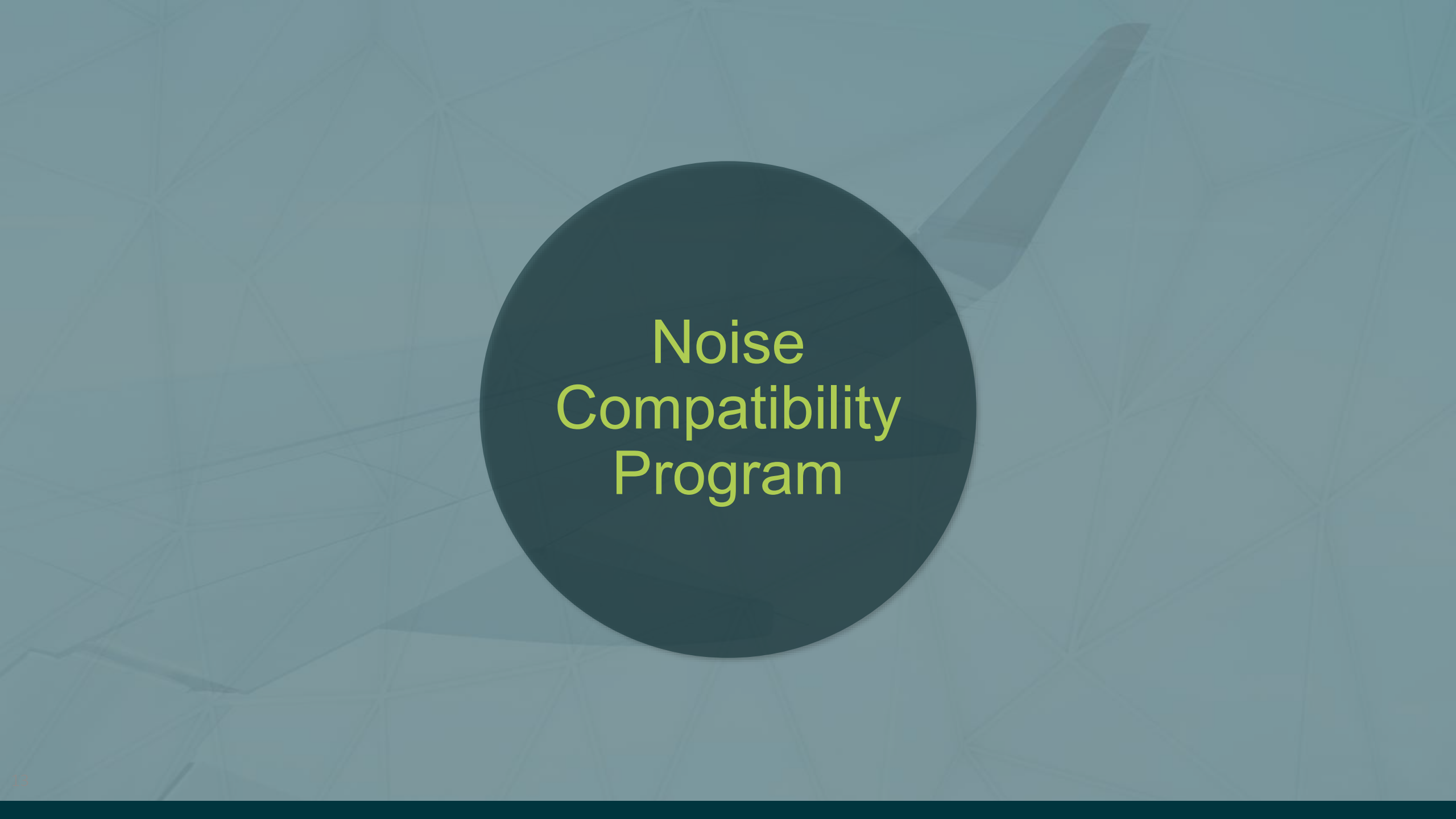


2024 Noise Exposure Map



2029 Noise Exposure Map





Noise Compatibility Program

NOISE COMPATIBILITY PROGRAM OVERVIEW

- NCP must address three major categories of recommended actions
 1. Noise abatement measures
 2. Compatible land use measures
 3. Program management/administrative measures
- FAA *accepts* NCP as compliant with Part 150 standards
- FAA reviews and *approves* or *disapproves* recommendations as compliant with Part 150 standards on a measure-by-measure basis

NOISE COMPATIBILITY PROGRAM OVERVIEW

Development of NCP Measures

Step 1: Identify Incompatible Land Uses

Existing conditions Noise Exposure Map
Forecast conditions Noise Exposure Map

Step 2: Consider Noise Abatement Strategies

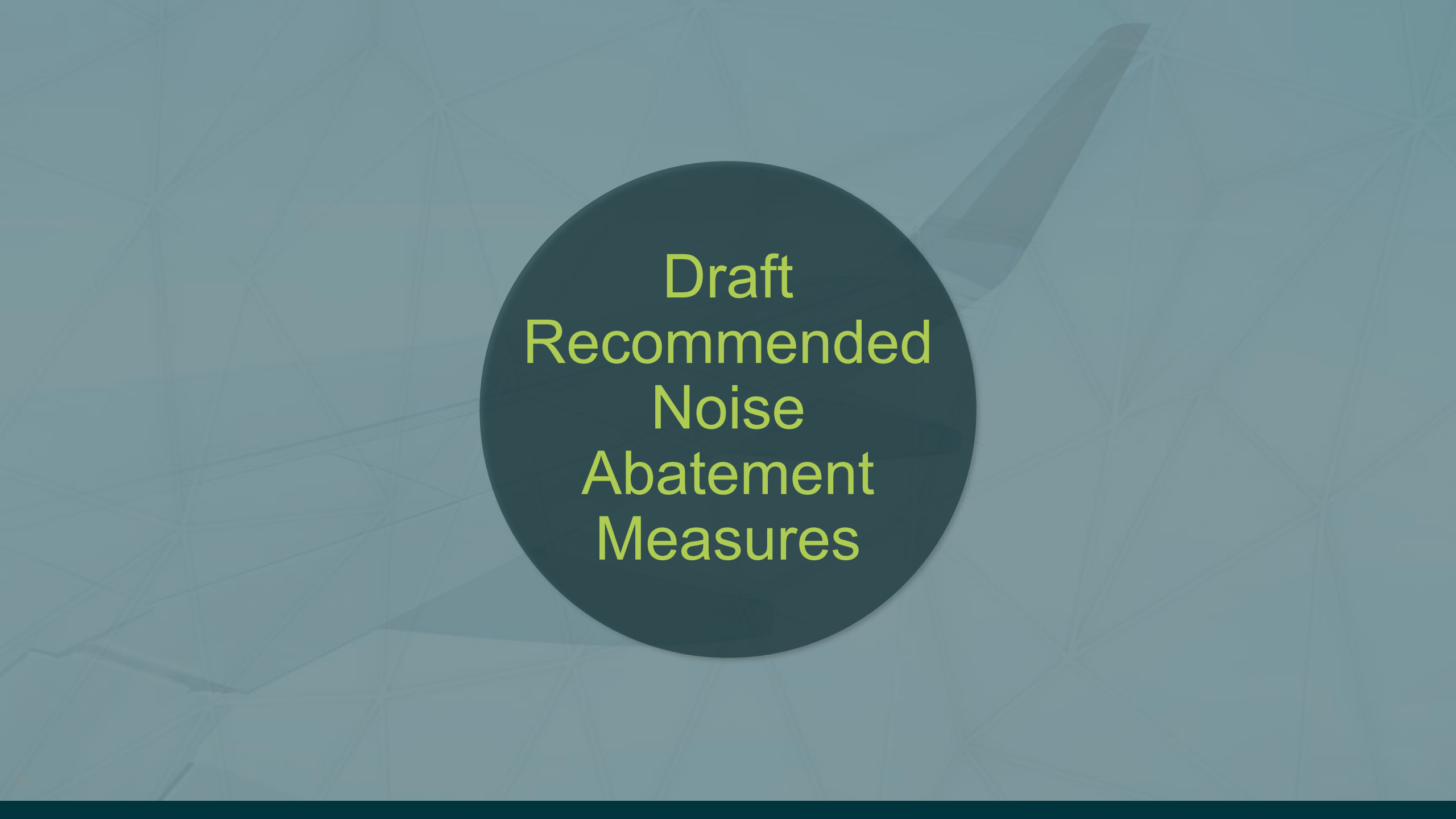
Reduce exposure over incompatible uses
Limit growth in exposure over incompatible uses

Step 3: Consider Land Use Strategies

Mitigate residual incompatible uses
Prevent introduction of new incompatible uses

Step 4: Consider Programmatic Strategies

Implement and promote measures
Monitor and report on effectiveness
Update NEMs and revise NCP as appropriate



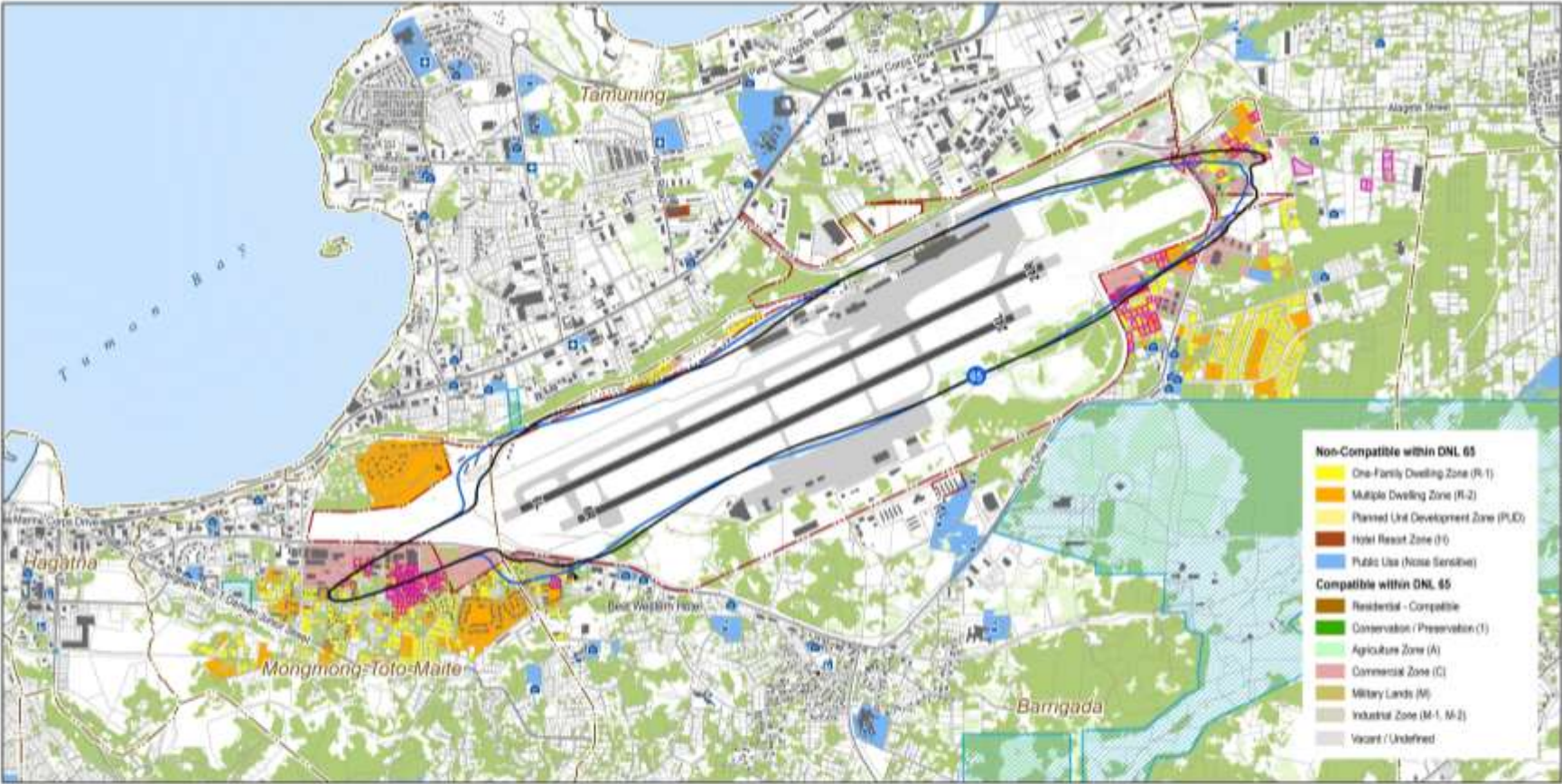
**Draft
Recommended
Noise
Abatement
Measures**

RECOMMENDED NOISE COMPATIBILITY PROGRAM MEASURES - *Draft*

Noise Abatement Measures

- First round Noise Abatement Measures
 - Discussed during May 2024 Stakeholder meeting
 - Presented and reviewed during PAC3
- Stakeholders and the PAC provided comments
 - Three measures moved forward to the second round of evaluations during PAC4
 - Two measures are potentially recommended by GIAA for public review:
 1. Encourage pilots to depart Runway 6L at the Taxiway A Intersection
 2. Encourage pilots to use ICAO-A “Close In” noise abatement departure profile when departing the Airport

Noise Exposure Contours With Recommended Noise Abatement Measures Implemented



Source: Pacific Island Data Project - Coastal and Islander Studies Planning, Department of the Pacific Regional Development Program (DPRDP), PRASA, 2014. DNR & AEC/1302. Part 2 (2012) (2)

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- Use of Intersection Departures on Runway 6L and ICAO-A Departure Procedures DNL Contours
- Forecast Condition (2026) NEM Contour
- Compatible through the Residential Sound Solutions Program (RSSP)
- Airport Property Line
- Runway / Taxiway
- Building
- Major / Minor Road
- Village Boundary
- Department of Defense (DOD)
- Open Space / Forested Land
- Water
- School
- Place of Worship
- Library
- Class / Hospital

Antonio B Won Pat International Airport (GUM)
Barrigada, Guam

Comparison of Future Condition (2026) and Intersection Departures on Runway 6L and ICAO-A Departure Procedures DNL Contours





**Draft
Recommended
Land Use
Measures**

RECOMMENDED NOISE COMPATIBILITY PROGRAM MEASURES - *Draft*

Land Use Measures

- First round Land Use Measures
 - Discussed during May 2024 Stakeholder meeting
 - Presented and reviewed during PAC3
- Stakeholders and the PAC provided comments
 - Six measures moved forward to the second round of evaluations (PAC4)
 - Four measures are potentially recommended by GIAA for public review:
 - Corrective
 1. Land Use Rezoning Support
 2. Acquire Noncompatible Land
 3. Sound Insulate Noise-Sensitive Structures
 - Preventive
 4. Airport Noise Overlay Zone

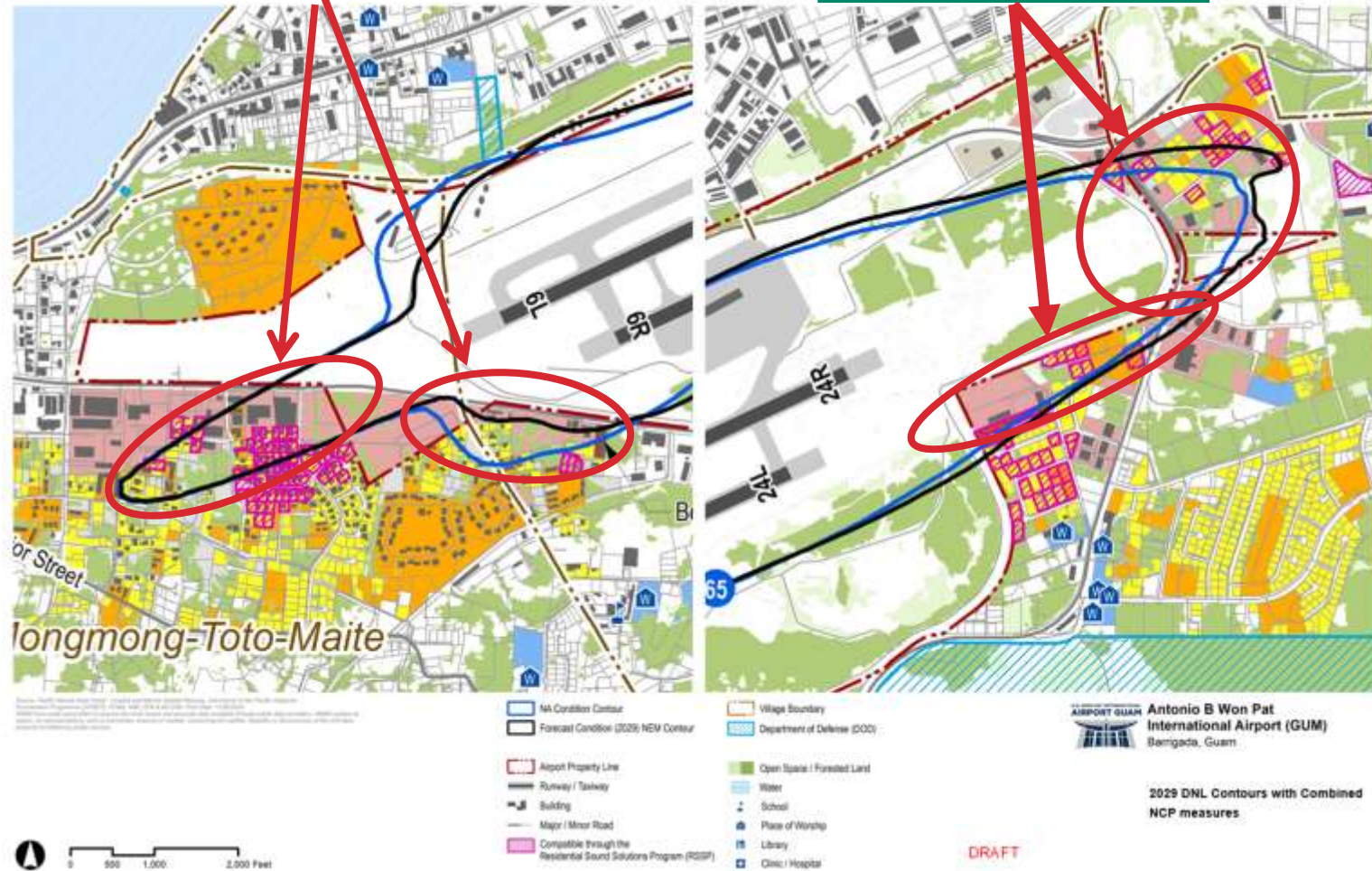
LAND USE MEASURE

1. Land Use Rezoning Support

- Provide support to property owners with rezoning noncompatible land use into compatible use
 - e.g. Residential to Industrial
 - Letter of support from GIAA may strengthen efforts to rezone
 - Encourages future compatible land use
- GIAA would provide letters not supporting the rezoning of properties to noncompatible use

Areas possible for land use rezoning

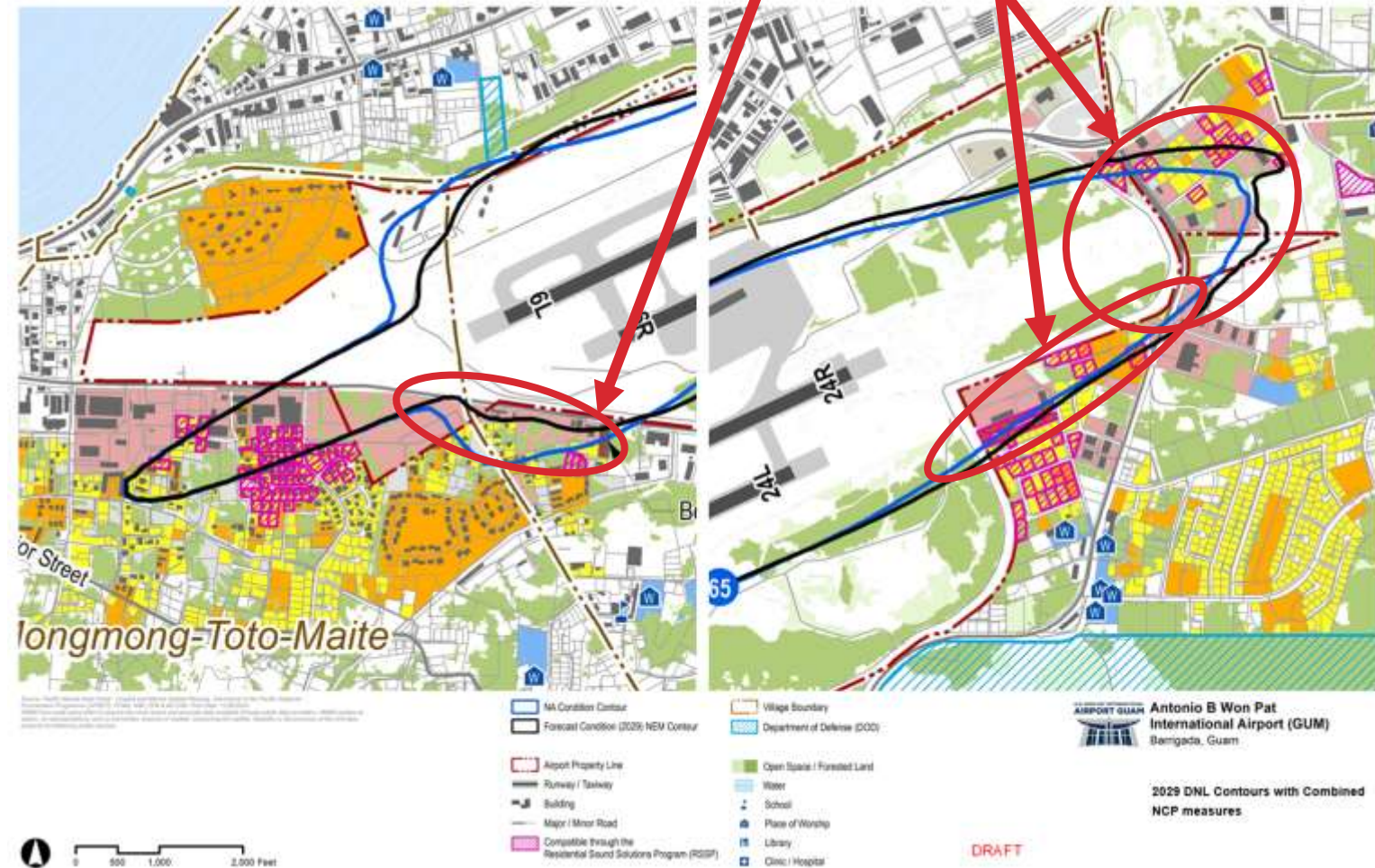
Areas possible for land use rezoning



LAND USE MEASURE

2. Acquire Noncompatible Land Uses

- Acquire noise-sensitive land uses near the airport boundary and within the 65 DNL contour
- Transition the property to:
 - Airport property
 - Compatible non-Airport property
- Creates “buffer zones” of compatible use near the Airport

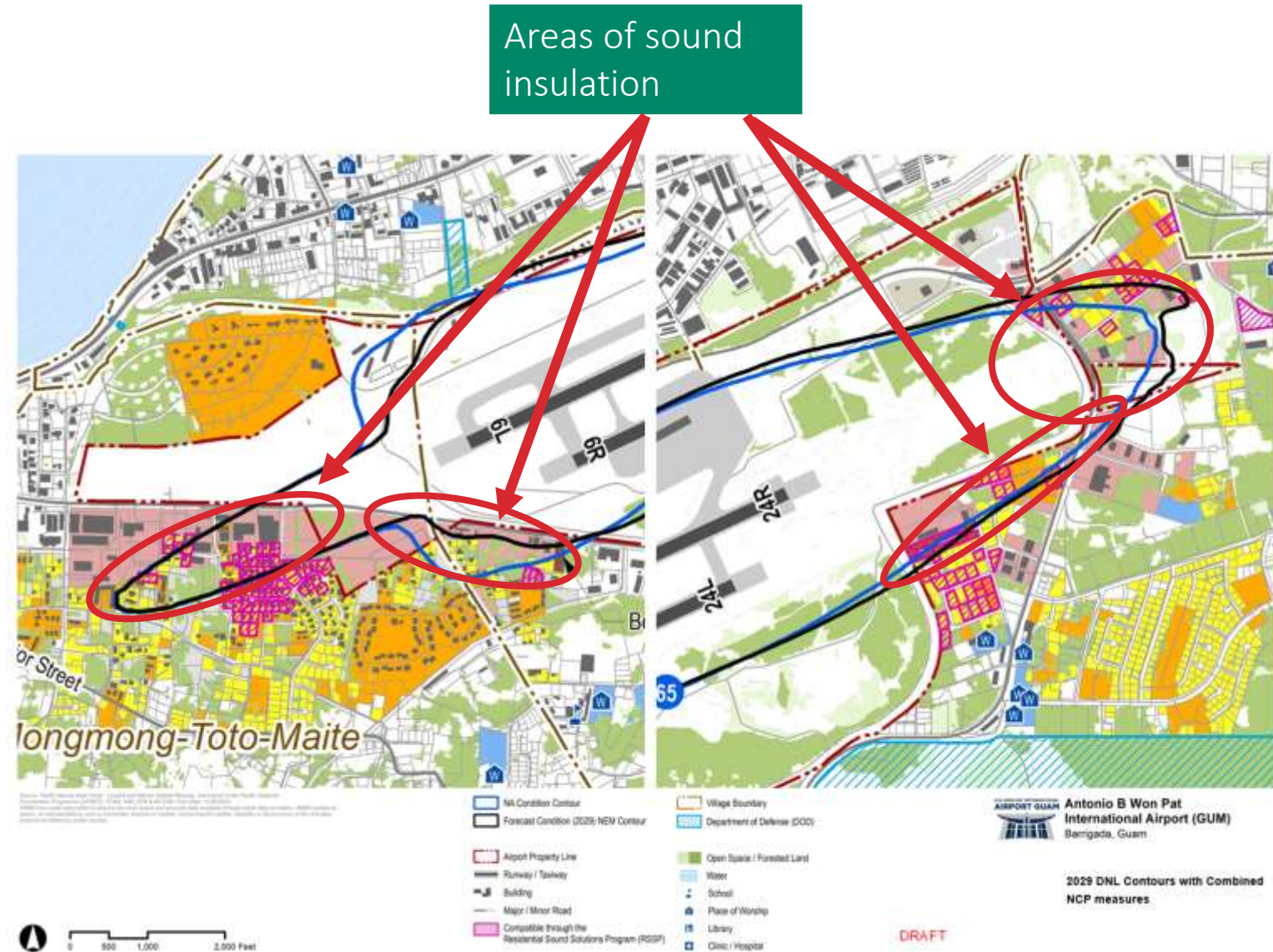


Areas of possible land acquisition

LAND USE MEASURE

3. Provide Sound Insulation Treatments

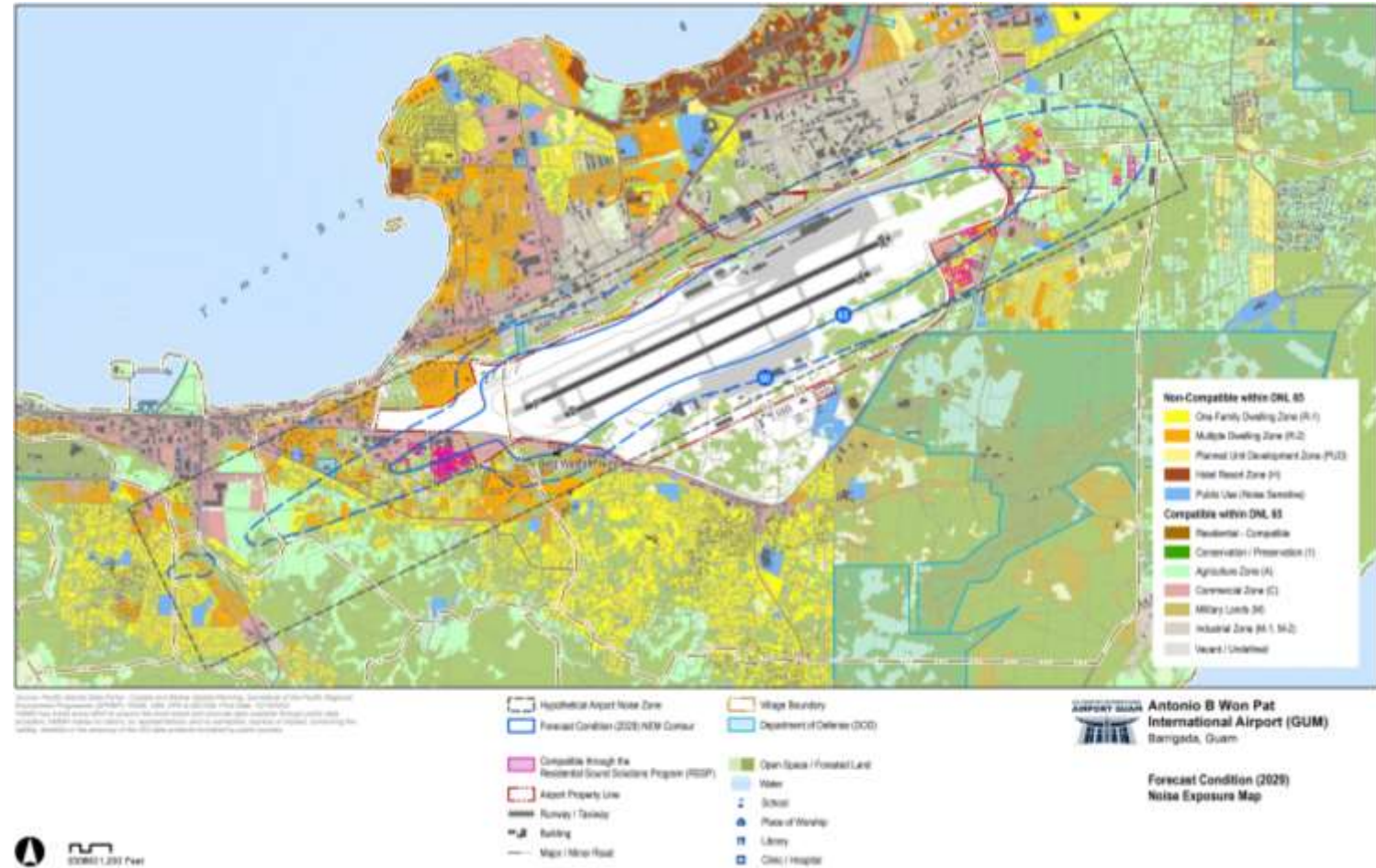
- Continue the Residential Sound Solutions Program to:
 - Mitigate the interior of the noise-sensitive structures and provide a compatible interior with noise from aircraft arrivals and departures
- Treatments may include:
 - Window/door replacement, caulking, weather stripping
 - Positive air ventilation



LAND USE MEASURE

4. Airport Noise Overlay Zone

- Preventive strategy to limit noise-sensitive development
- Figure shows three zones
 - The rectangle area would be the area where GIAA is notified of proposed development.
 - The DNL 60 dB contour would be the area where additional sound insulation for new noise-sensitive structures is recommended.
 - The DNL 65 dB contour would be the area where new noise-sensitive development is not recommended.





**Draft
Recommended
Programmatic
Measures**

RECOMMENDED NOISE COMPATIBILITY PROGRAM MEASURES - *Draft*

Program Management Measures

- First round Program Management Measures
 - Discussed during May 2024 Stakeholder meeting
 - Presented and reviewed during PAC3
- Stakeholders and the PAC provided comments
 - Six measures moved forward to the second round of evaluations (PAC4)
 - Five measures potentially recommended by GIAA for public review:
 1. **Noise Compatibility Staff**
Employ one staff position to support the implementation and monitoring of the Airport-recommended Noise Compatibility Program measures
 2. **Noise/Land Use Advisory Committee**
Establish an advisory committee with GIAA and land use agencies that meets quarterly to have an exchange of information and discuss land use issues and solutions related to noise-sensitive development around the Airport
 3. **Update the Noise Exposure Map**
Update the NEM in accordance with FAA guidance to support the continued receipt of federal grants to implement the GIAA noise program
 4. **Update the Noise Compatibility Program** - Update the NCP when the existing program no longer adequately addresses the noncompatible land uses
 5. **Noise Abatement Signage on Airfield**
Install signage on the airfield requesting aircraft depart using the ICAO-A (NADP-1) noise abatement departure profile and state any other noise program elements pilots should know about operating quietly at GIAA



Schedule

Proposed Schedule

We are here!

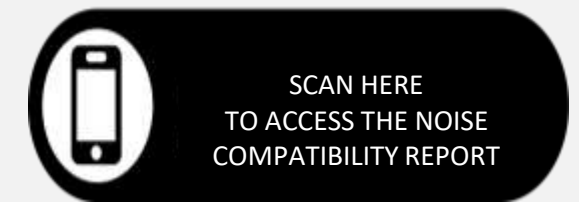
Note: Schedule is subject to change

Meeting / Activity	Purpose	Anticipated Time Frame
Kick-Off Meeting with GIAA and the Part 150 Team	Define organizational and procedural matters and public outreach, review and refine scope and schedule details.	July 25, 2023
1 st Planning Advisory Committee Meeting	Introduction to Part 150, discuss stakeholder roles, identify issues of concern	November 8, 2023
2 nd Planning Advisory Committee Meeting	Discussion on aviation forecasts, noise modeling results and presentation of the draft NEM Update	May 22, 2024
NEM Public Comment Period and 1 st Public Workshop	Overview of Part 150 process, Noise Modeling, Noise Exposure Maps, Introduction to NCP, NEM thirty-day public comment period	November 2024
3 rd Planning Advisory Committee Meeting	2 nd Round results of the proposed Noise Abatement Measures, Land Use and Program Management measures.	November 2024
GIAA to Submit Final NEM to FAA	GIAA submits final updated NEM to FAA for review and acceptance. Respond to FAA questions as needed	January 2025
4 th Planning Advisory Committee Meeting	Revised Noise Abatement measures, potential Land Use and Program Management measures.	April 2025
5 th Planning Advisory Committee Meeting	Review Recommended Noise Compatibility Program, Noise Abatement Measures, Program Management and Public Outreach Workshop	October 2025
NCP Public Comment Period, 2 nd Public Workshop, and NCP hearing	NCP thirty-day public comment period, 2nd Public Workshop and NCP Hearing.	October 2025
GIAA to Submit Final NCP to FAA	GIAA submits final updated NCP to FAA for review and approval. Respond to FAA questions as needed.	January 2026

Public Hearing Comments

Draft NCP Public Comments

- Draft Noise Compatibility Program
 - **Comment period – October 29, 2025 to December 1, 2025**
- Written comments (**accepted through December 1, 2025**)
 - Tonight at Workshop & Hearing
 - Via email at: GIAAPart150@aecom.com
 - Via comment boxes at each Library
 - Mail to:
 - GIAA
 - Part 150 Study
 - PO Box 8770, Tamuning, Guam
- All public comments and responses will be provided to the FAA as part of the final NCP report





Workshop

Public Information Workshop

- Open House Format
 - Six stations set up around the room
 1. About the Airport
 2. Noise Compatibility Program Overview
 3. Noise Exposure Maps
 4. Proposed Noise Abatement Recommendations
 5. Proposed Land Use Recommendations
 6. Proposed Programmatic Measures Recommendations
 - Airport staff and Study team are available to discuss the Study
 - Submit comments by December 1, 2025



Thank you