

# Part 150 Study Technical Review Committee

Meeting #1 | June 10, 2024



# Agenda

- Welcome and Introductions
- Purpose and Role of the Technical Review Committee (TRC)
- Airport Overview
- Part 150 Study Overview
- Introduction to Aircraft Noise and Modeling
- Overview of Land Use Compatibility
- Project Schedule
- Questions

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# Welcome and Introductions – Consultant Team

#### **Environmental Science Associates (ESA)**

- 700+ person environmental consulting firm
- Experience at more than 230 airports nationally
- Highly complex projects
  - LaGuardia Part 150
  - John F. Kennedy International Part 150
  - Fort Lauderdale-Hollywood International Part 150
  - Los Angeles International Part 150
  - Tampa International NEM Update
  - San Antonio NEM Update
  - San Francisco International NEM Update



# Welcome and Introductions – Consultant Team



Barry Technologies, Inc. Noise Monitoring



**BridgeNet International** Visualization/Graphics



**Diverse Vector Aviation Consulting (DVAC)** Air Traffic Control/Airspace



RICONDO

#### **PRR, Inc.** Community Engagement

**Ricondo** Forecasting, Airspace, Modeling, and Integration



**VMC** Airspace/Flight Procedures

# Welcome and Introductions – TRC

#### **TRC Members**

- Alaska Airlines Lynae Craig
- Delta Airlines TBD
- Des Moines Jason Woycke
- Burien Liz Stead
- Federal Way Brian Davis
- Normandy Park Nicholas Matz
- SeaTac Zach Shields
- Tukwila Neil Tabor

#### **TRC Liaisons**

- FAA
  - Western Service Center ATO Joe Bert
  - Seattle ADO TBD
  - SEA ATCT TBD
- Port of Seattle
  - Tom Fagerstrom
  - Ryan McMullan
  - Paris Edwards
  - Tom Hooper



# **Technical Review Committee**



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# Purpose and Role of the TRC

- TRC members represent the interests of their organization and/or constituents
- The TRC's role is to support the SEA Part 150 Study
  - Review study assumptions
  - Provide technical feedback within the context of the Part 150 Study
  - TRC members are encouraged to express their opinions and expected to respect the range of opinions expressed by their fellow TRC members
- TRC members are expected to advise their organization and/or constituents of the TRC's discussions
- The Port will respect and consider the TRC's technical input, but retains responsibility for, and decision-making authority on, the SEA Part 150 Study

# Role of the TRC Meeting Facilitator

- To ensure that the TRC meetings are effective, meetings will be facilitated by a professional meeting facilitator
- The meeting facilitator:
  - Is responsible for ensuring that the TRC meetings adhere to the meeting agenda
  - May extend or shorten the length of a discussion related to an agenda item at their discretion
  - As well as the Port, may cancel or suspend a TRC meeting due to disrespectful or disruptive behavior



# **TRC Charter and Participation Agreement**

- The TRC Charter and Participation Agreement are included in today's meeting materials
- The Charter describes the role of the TRC and describes the conduct of the TRC meetings
- Please return the signed Participation Agreement to The Port
- The Port anticipates there will be 15 to 20 TRC meetings during the Study's duration
- TRC meetings will typically be held every other month
- TRC membership is voluntary and TRC members will not be compensated for their time

# **Airport Overview**



# **SEA** Overview

- SEA is one of the Pacific Northwest's leading economic engines
  - 151,400 jobs, including 87,300 direct jobs
  - \$7.1 billion in total personal income
  - \$22.5 billion in total business revenue
  - \$415 million in state taxes reflecting direct and secondary activities
- In 2023, the Airport had 422,500+ operations
- Served 50 million passengers in 2023
- Processed 417,000+ metric tons of cargo in 2023
- The only large hub airport in the PNW
- Non-stop flights to over 120 domestic and international cities

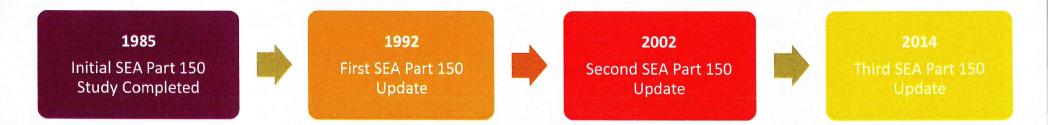




# Part 150 History at SEA

# The 14 CFR Part 150 process is the Airport Sponsor's mechanism to improve the compatibility between the Airport and surrounding communities

SEA's Part 150 Efforts Span Four Decades



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Port

# Port of Seattle

# Part 150 Study Overview

# **Regulations and Guidelines**

- Interim Rule on Federal Aviation Regulations (FAR) Part 150, Airport Noise Compatibility Planning, issued in 1981 and finalized in 1985, later recodified as Title 14 Code of Federal Regulations (CFR) Part 150
- Issued in response to provisions contained in the Aviation Safety and Noise Abatement Act (ASNA) of 1979
- Establishes the methodology to be followed when preparing aircraft noise exposure maps and developing airport/airport environs land use compatibility programs
- Part 150 studies are voluntary, but...
- Part 150 studies must adhere to 14 CFR Part 150 guidelines to be considered and accepted and approved by FAA



# **Regulatory Framework**

- Three core organizations are involved in aircraft operations at SEA:
  - Federal Aviation Administration (FAA) Directs the safe movement of aircraft in the air and on the ground
  - The Port: Manages the airport, improves and maintains airport facilities; has no control over where aircraft fly
  - Pilots: The pilot in command has ultimate responsibility for the safe operation of his/her aircraft

#### Federal law

- Sets aircraft noise standards, prescribes operating rules, establishes the compatibility planning process, and limits airport proprietor's ability to restrict aircraft operations.
- State law
  - Sets forth compatibility planning guidelines and noise standards but aircraft are exempt.

#### Local noise ordinances

- Set noise standards and provide for compatible land use planning but aircraft are exempt

# Who Can Regulate Airport Noise

#### Federal Aviation Administration

- Controls aircraft while in flight
- Responsible for controlling noise at its source (i.e., aircraft engines)
- Certifies aircraft and pilots

#### Airport Proprietors/Port of Seattle

- Responsible for capital improvement projects and infrastructure.
- Can establish a "noise office", which services as a bridge between the Airport, FAA, and the community to minimize the impact of aircraft noise while ensuring the Airport operates safely and efficiently.
- Very limited authority to adopt local restrictions though can adopt and promote voluntary noise abatement measures

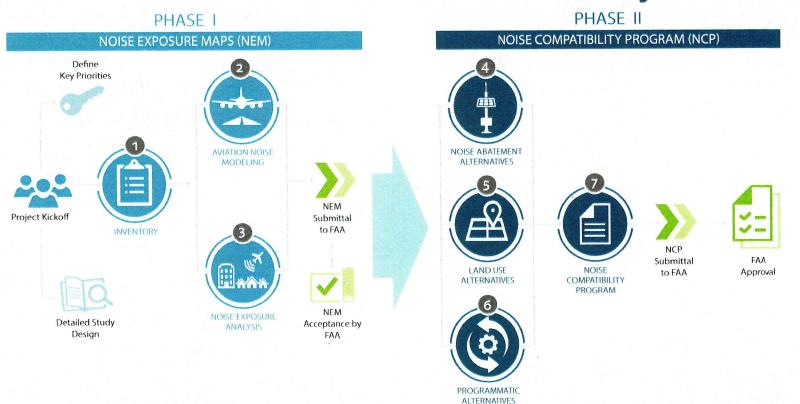
#### Local Governments and States

Port

- Promote compatible land use through zoning
- Can require real estate disclosure
- Can mandate sound-insulating building materials

FEDERAL LAW TAKES PRECEDENCE OVER STATE AND LOCAL REGULATIONS

### Phases of a Part 150 Study



COMMUNITY AND STAKEHOLDER ENGAGEMENT

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Port for Seattle

# Part 150 Study Overview

#### Noise Exposure Map Report (NEM)

- Develop a comprehensive database of current conditions
- Noise contour development and impact analysis
- Prepare and submit NEM Report

#### Noise Compatibility Program (NCP)

- Identify and evaluate noise abatement alternatives
- Identify and evaluate compatible land use alternatives
- Identify and evaluate administrative measures
- Prepare and submit NCP Report

#### Stakeholder Outreach Program

- Local Jurisdictions/Agencies
- FAA
- Public

Seattle SEATTLE-TACOMA INTERNATIONAL AIRPORT

# Analyze, Evaluate, Educate

- Determine existing and future noise conditions in the vicinity of an airport
- Identify noncompatible uses
- Identify measures to improve compatibility
  - Evaluate the feasibility of possible flight procedure/land use changes
  - Submit locally-endorsed recommendations to the FAA regarding noise reduction measures
  - Approved measures may be eligible for Federal grant funding
- Educate communities on the Federal process and what can and cannot be done to address aircraft noise concerns

#### Part 150 Studies Must Adhere to 14 CFR Part 150 Guidelines to be Accepted and Approved by FAA



# Key Priorities for this Part 150 Study

- Understanding community concerns about aircraft operations
  - Seasonal operations (north flow typically in summer)
  - Increase in annual aircraft operations
- Meaningful community engagement
- Communicating the Part 150 Study process and managing expectations
- Avoiding confusion about ongoing Port programs separate from the Part 150 Study:
  - Sustainable Airport Master Plan Near-Term Projects (SAMP NTP)
  - Ongoing Sound Insulation Program
  - Sound Insulation Repair and Replace Pilot Program

Port of Seattle

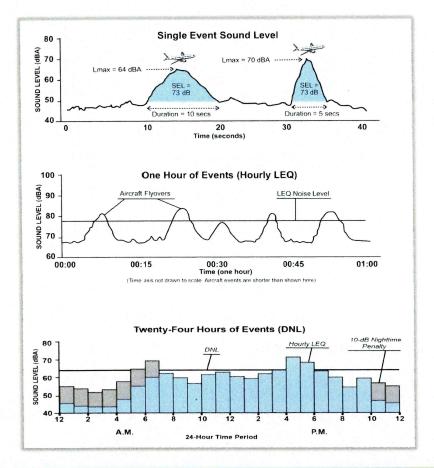
# **Noise and Noise Modeling**

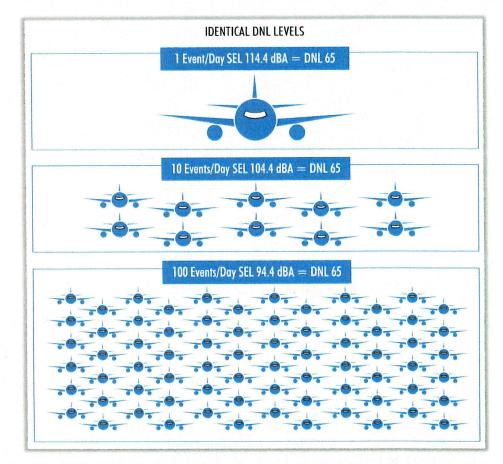
# Introduction to Aircraft Noise

- Day-Night Average Sound Level (DNL)
  - 24-hour time weighted energy average noise level based on A-weighted decibels (dBA)
  - Noise occurring between 10 p.m. to 7 a.m. is penalized by 10 dB to account for the higher sensitivity to noise during nighttime hours and for the expected decrease in background levels that typically occur in the nighttime
  - FAA requires the use of DNL for airport noise analyses
  - Average Annual Day (AAD) aircraft noise exposure is calculated over a broad area and then depicted using contour lines of equal noise levels



# Introduction to Aircraft Noise







# **Noise Modeling**

- Aircraft noise modeling allows:
  - Calculation of noise exposure at any point
  - Depicting annual average aircraft noise exposure
  - Predicting future aircraft noise exposure
  - Assessing changes in noise impacts resulting from runway configuration changes or new runways
  - Assessing changes in fleet mix and/or number of operations
  - Evaluating operational procedures
- Aviation Environmental Design Tool (AEDT) replaced the Integrated Noise Model (INM) when it was released in 2015. The current version, AEDT 3f, will be used for the SEA Part 150 Study.



# **Noise Model Inputs**

- The Amount of Noise Exposure is determined by:
  - Aircraft types
  - Stage length (AEDT input for takeoff weight based on distance to destination)
  - Number of average annual day operations
  - Nighttime weighting (1 nighttime operation = 10 daytime operations)
- The Noise Exposure Distribution is determined by:
  - Runway configuration and use
  - Flight track locations
  - Flight track use
- Other Factors
  - Meteorological conditions



Aviation Environmental Design Tool (AEDT) Version 3f

# Land Use Compatibility



# Land Use Compatibility

- 14 CFR Part 150 Appendix A, Table 1 provides noise and land use compatibility guidelines
- Considers levels below DNL 65 dB to be compatible with all land uses
- Allows for the adoption of appropriate local land use standards for land use compatibility planning purposes

The 14 CFR Part 150 process is the Airport Sponsor's mechanism to improve the compatibility between the Airport and surrounding communities

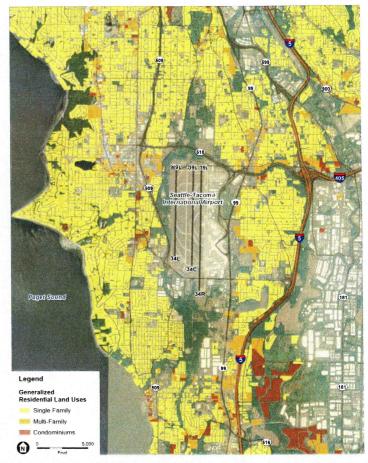
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Mobile home parks		Y	N	N		N	N	N
Transient lodgings		Y	N(1)	N(1)		J(1)	N	N
PUBLIC USE								
Schools		Y	N(1)	N(1)		N	N	N
Hospitals and nursing homes		Y	25	30		N	N	N
Churches, auditoriums, and concert halls		Y	25	30		N	N	N
Governmental services		Y	Y	25		30	N	N
Transportation		Y	Y	Y(2)		(3)	Y(4)	Y(4)
Parking		Y	Y	Y(2)		(3)	Y(4)	N
COMMERCIAL USE								
Offices, business and professional		Y	Y	25		30	N	N
Wholesale and retail—building materials, hardware and farm equipment		Y	Y	Y(2)	,	(3)	Y(4)	N
Retail trade		Y	Y	25		30	N	N
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Communication		Y	Y	25		30	N	N
MANUFACTURING AND PRODUC	TION							
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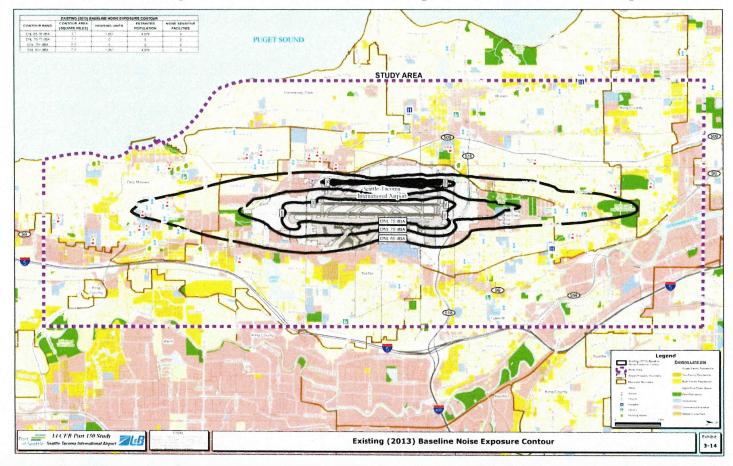
# Land Use Compatibility

- Land Uses
  - Existing and future land use
  - Land parcel data
  - Zoning
  - Jurisdictional boundaries and neighborhoods
- Noise Sensitives Uses
  - Residential
  - Places of worship
  - Schools, colleges and universities
  - Libraries/cultural institutions
  - Hospitals and residential healthcare facilities
  - Daycare and assisted living facilities
  - Historic properties

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# Sample Noise Exposure Map





# **Frequently Asked Questions**

- Will the study "fix" all the noise issues around the airport?
  - No, overflights of residential areas are unavoidable and sensitivity to noise varies by person
- What type of noise monitoring will be conducted?
  - While all analysis is modeling based, which allows consistency and evaluation of future conditions, noise monitoring will be conducted to identify trends that should be evaluated in the operational data
- Will the Study address concerns about safety, soot, or other concerns related to aircraft operation?
  - The Part 150 process focuses exclusively on noise and land use compatibility

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# Part 150 Study Schedule

# Preliminary Part 150 Study Schedule

#### Preliminary 14 CFR Part 150 Schedule

- Noise Exposure Maps
  - Data Collection
  - Public Outreach
  - Noise Modeling
  - NEM Report/FAA Acceptance
- Noise Compatibility Program
  - Alternatives Analysis
  - NCP Report

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- Public Hearing
- FAA 180 Day Review/ROA



# Summary of Kickoff Public Workshops

# (1) Gregory Heights Elementary School 16216 19th Avenue SW June 5<sup>th</sup>, 2024 June 5<sup>th</sup>, 2024 (2) Mount Rainier High School 22450 19th Avenue S Des Moines, WA 98198 6:00 P.M. – 8:00 P.M. (3) Glacier Middle School 2450 S 142nd Street SeaTac, WA 98168





10:00 A.M. - 12:00 P.M.

# **Future Meetings**

**Technical Review Committee** 

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- TRC Meeting #2 (Tentative)
- TRC Meeting #3 (Tentative)



- Reminder notices will be sent out in advance of each meeting
- Following the meeting, TRC materials will be posted on the Project Website at <u>www.seapart150.com</u>

# Communications

- Project Website
  - Project Information
  - Process
  - FAQs
  - Tentative Schedule
  - Public Draft and Final NEM and NCP Reports
  - Reference Material
- Communication and Feedback:
  - Upcoming meetings including location/dates/times
  - Comment portal during public comment periods
  - Links to other websites/resources

# **Questions?**

