Sound Mitigation Briefing



Part 150 Overview

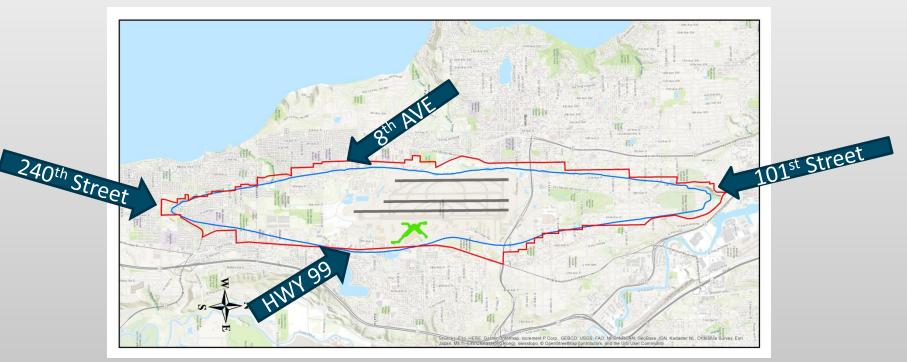
- Code of Federal Regulations 14 (CFR14) Part 150 FAA established guidelines
- Voluntary program
- Airports must follow to get federal grants for mitigation projects
- The focus of Part 150 is to address noise and land use incompatibilities
- Educate the public about the airport
- FAA Approved mitigation measures become eligible for AIP funding at 80%

Sea-Tac Part 150

- Original program began in 1985
- Completed 3 updates
- Last update completed in 2014
 - Extensive public involvement
 - Public workshops
 - Highline Forum updates
 - City council presentations
 - Commission updates
 - Technical Review Committee

DNL Noise Contour

- Day Night Level (DNL) Annual cumulative average of noise emitted from aircraft operating at Sea-Tac airport
 - 10 dB penalty for aircraft operating between 10pm and 7am
- Contours MUST be developed using the FAA Airport Environmental Design Tool (AEDT)
- The FAA will not allow airports to use noise monitoring recorded decibel levels for production of DNL contours
- Contours must be submitted to and approved by the FAA
- The 65 DNL Contour is the basis for land use analysis in the Part 150



FAA funds mitigation within the boundary

Part 150 Land Use Planning

- Identify noise incompatibilities within surrounding communities
 - Below 65 DNL is compatible
 - Non-compatible at or above 65 DNL without sound insulation
 - Residential
 - Schools
 - Places of Worship
 - Hospitals
 - Nursing Homes
 - Daycare facilities with licensed educators

Part 150 identifies land use that is not compatible with airport noise

Sound Insulation

- No direct cost to the homeowners
- Port receives an "Avigation Easement" in exchange for the insulation
- Sound rated windows, doors,
 & ventilation



History of Noise Mitigation

Sound Insulation

- Began in 1985
- Approximately 9,400 homes have been completed
- 8 Highline Schools completed (POS/FAA funding assistance)
- 5 Condominium Complexes 246 units
- 14 Buildings on the Highline College Campus

Acquisition

- 5 Mobile home parks, 359 mobile home units
- 69 Homes north of the 3rd runway
- 1,400 single family homes including 3rd runway acquisition

Approximately \$300 million spent on sound insulation / \$100 million on noise related acquisition

Sound Insulation Requirements

- Homes have to be built prior to 1986 in Des Moines and 1987 in all other areas – Building codes met or exceeded FAA standards past these dates
- Homeowners are required to sign an avigation easement
- Homes must pass a noise audit to ensure that a DNL 45 dB interior noise level can be achieved



Single-Family Sound Insulation

- Continuation of Single Family Sound Insulation
 - Approximately 135 homes identified as potentially eligible
 - Extensive outreach to homeowners completed by certified mail in 2016
 - 48 applications received back
 - 7 homes did not qualify by year built
 - 41 homes sound tested 34 qualified
 - 9 homes completed in 2019
 - 9 more homes starting in August
 - 16 homes remain eligible and waiting on homeowner participation
 - Potentially eligible homeowner outreach will be conducted Q4 2019

Condominiums

- 3 complexes comprised of 133 estimated units
- A&E / Construction Management Firm has been procured
- Project Kick-off meeting for 1st complex complete
- Construction anticipated to start 1st quarter 2020
- All complexes anticipated completion by 2021
- FAA grant funded at 80% of eligible costs



Apartment Sound Insulation

- 18 buildings identified as potentially eligible
- Approximately 877 units
- FAA grant funded at 80% of eligible costs
- Begin project definition of pilot project of 1 building in 2022
- Complete pilot project in 2023



Places of Worship Sound Insulation

- 7 structures identified as potentially eligible
- P150 recommended a feasibility study first
 - Completed April 2016
 - Begin project definition of pilot project of 1 building in 2024
 - Pilot project estimated to be completed in 2024

Voluntary Purchase of Avigation Easements For Mobile Homes On Private Land

- Estimated number of eligible parcels 88
- FAA grant funded at 80% of eligible costs
- Begin easement purchase 2021



Voluntary Home Acquisition Within The South Approach Transition Zone (ATZ)

- ATZ is an area 2500 feet off the end of the Runway Protection Zone (RPZ)
- Approximately 16 Single Family Homes & 6 apartment buildings
- Begin Project 2023
- FAA grant funded at 80% of eligible costs
- Project completion date depends on voluntary participation



Schools

- MOA in place with Highline School District (HSD), FAA, and the Port to sound insulate
- 8 schools have been completed
- 7 HSD schools remain to be sound insulated
- Des Moines Elementary currently under construction
- Highline High School contracting has started



What's Next?

- Evaluate current DNL contours through the SAMP Near-Term Projects Environmental Review
- Potential Part 150 update after the completion of the Environmental Review

Thank You