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Item No. __11b_supp_____
Meeting Date: October 25, 2022
Part 150 Noise and Land Use
Compatibility Study Briefing
October 25, 2022

Part 150 Overview

- Code of Federal Regulations 14 (CFR 14) Part 150 – FAA established study guidelines
- Airports must follow those guidelines to obtain FAA Airport Improvement Program (AIP) grant funding for abatement and mitigation projects
- Part 150s focus on airport noise and land use incompatibilities within the 65 Day/Night Level (DNL) contour
- Updated 65 DNL noise contours are the required outcome of a Part 150
- FAA-approved mitigation measures become eligible for AIP funding at 80%

DNL Noise Contour

- Day Night Level (DNL) – annual average of noise from aircraft operating at SEA
- Contours must be produced using the FAA-required Aircraft Environmental Design Tool (AEDT)
- 65 DNL is the FAA-required metric and level
- Contours are depictions of the cumulative impacts of aircraft noise, and must be reviewed and approved by the FAA
- FAA will not allow the use of noise monitoring data to assess impacts
- The 65 DNL contour is the basis for land use analysis in the Part 150
- Current and future noise impacts will be assessed

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SEA 2018 DNL Contour

S 240th St S 100th St

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Part 150 Land Use Planning

- Identify noise incompatibilities within surrounding communities - below 65 DNL is compatible with all uses
- Incompatible land uses at or above 65 DNL:
 - Residential
 - Schools
 - Places of worship
 - Hospitals
 - Nursing homes
 - Daycare facilities with licensed educators
- Evaluate new potential noise abatement initiatives
- Evaluate ongoing programs from past Part 150 Studies

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SEA Part 150 Studies

- Initial study completed in 1985

- Updates
 - 1992
 - 2002
 - 2014
- Extensive public involvement

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2014 Part 150 Study Record of Approval

– Noise Mitigation

- Updated noise remedy boundary
- Continuation of single-family sound insulation
- New Condominium sound insulation
- New Apartment sound insulation
- Continuation of School Sound Insulation Program
- Voluntary acquisition of residential in 3rd runway South Approach Transition Zone (ATZ)

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2014 Part 150 Study Record of Approval

– Noise Abatement

- Continuation of Aircraft Maintenance Run-up restrictions
- Continuation of the Fly Quiet Program including monitoring noise abatement procedures in place
- Ongoing monitoring of the Noise Abatement Corridors
- Evaluate and Upgrade the Noise Monitoring System
- Continue to operate the Noise Programs Office

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New SEA Part 150 Study Update

- Consulting firm will be hired to lead the study and provide technical expertise
- Finalizing the initial consultant scope
 - Detailed project scope will be developed with chosen consultant and presented to the Commission for input
- Consultant procurement finalized by mid year 2023
- Study development and data collection late 2023
- Full public study outreach anticipated early 2024
- Multi-year study that may take 4-7 years to complete

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Commission Project Authorization

November 8th

- \$1M – authorized in 2022
- \$6M – this request to fully fund the project
- Authorization to procure consultant and execute contract

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