

Airport Noise Programs Overview

Stan Shepherd Sr. Manager, Airport Noise Programs







Airport Noise Programs

- Noise Abatement
- StART
- Noise Monitoring
- Noise Mitigation
- Community Outreach



Noise Abatement Programs

- Flight Procedures Monitoring
- Fly Quiet
- Start Noise Working
 Group Initiatives



Noise Abatement Procedures In Effect



Jet Noise Abatement Procedures



Noise staff meet monthly with FAA TRACON to discuss compliance





Flight paths have been in place since 1990



SEA Flight Paths South Flow



Fly Quiet Award Program

- Low noise levels at 4 monitor locations north and south of runways
- **Compliance rate with Noise Abatement Procedures**
- Adherence to SEA ground maintenance run-up rules
- Low levels of noise during late night hours (new category)

Award given to one airline for significant contribution to reducing noise

- Increases airline awareness of noise programs and the impacts on communities
- Various outreach efforts for winning airlines



Annual award given to 2 airlines that score the highest in these categories:

Fly Quiet 2021 Winners

 Frontier Airlines – Operate the newest, quietest version of the A320, low noise levels, fly the noise abatement procedures very accurately

• Skywest Airlines – Operate the quiet E175 regional jet with low noise levels

 British Airways – Changed from the older, louder 747 & 777 to the much quieter 787 resulting in significantly reduced noise levels



StART Noise Initiatives

- Runway Use Agreement with the FAA
- aircraft
- Ground Noise Study
- Raise the glideslope on runway 34R to 3 degrees



Late Night Noise Limitation Program from 12am to 5am - monitoring noise levels and encouraging airlines to move flights out of late nights or change to a quieter

Noise Monitoring System







Noise Monitoring Program

24 Permanent Noise Monitors

2 Portable Noise Monitors

- Monitoring in Burien (Seahurst Elementary) finishing this month
- Consultant undertaking a gap analysis for potential monitoring in areas under the flight path without close-proximity to permanent monitors
- Additional City requests (two-month) intervals) – send to Dave Kaplan
- Monitoring on Vashon Island for one year

Seattle-Tacoma International



Noise Monitoring Data





Sound Insulation Programs

- Homes must be located within the 65 DNL contour or higher
- Goal of reducing the interior noise levels to 45 dBA DNL
- New windows, doors, ventilation systems
- No cost to the homeowner
- Port receives an Avigation Easement in return for the investment
- FAA requires that all homes must pass a noise audit for eligibility – ensures the structure is not already at or below an interior 45 dBA







Sound Insulation Program Boundary





Residential Projects

Single-Family Home Sound Insulation

- 140 potentially eligible homes remain
- 10 anticipated for completion this year
 - 5 homes currently under construction Ο
- Continued outreach to targeted homes **Condominium Sound Insulation**
- 3 potentially eligible complexes
- 2 chose not to participate
- year
- **Apartment Sound Insulation**
- 18 potentially Eligible Complexes, 903 Units
- Program beginning in 2022 through 2026

Seattle-Tacoma International

Villa Enzian in Des Moines – currently under construction to complete 7 units this

Places of Worship Sound Insulation

7 Places of Worship Potentially Eligible







Highline Schools Sound Insulation

Memorandum of Agreement for financial contributions to noise mitigation of new construction

- \$50 million from the Port
- \$50 million from FAA Grants

payment review process) 5 schools remain to be completed for a contribution amount of \$50M



- Contributed to 10 schools for a total of \$50M (includes Highline High currently in the



Community Outreach

Hotline 206-787-5393







Monthly Totals & Trends

424

25,002

Distinct Households

Comments

Monthly Totals & Trends: By City



https://www.portseattle.org/projects/noise-comment-monthly-reports

SEA Seattle-Tacoma International Airport NOISE PROGRAMS OFFICE COMMENT REPORT

JUL 2021



Comments YTD

853 Distinct Households YTD

Questions?



Seattle-Tacoma International Airport

Operated by the Port of Seattle

FlySEA.org



