

Noise Programs & NextGen Briefing

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Presentation Overview

- Noise Information Hotline
- Increased Operations
- Economic Impacts
- Noise Contours
- Noise Mitigation Programs
- Fight Procedures

Noise Information Hotline

Noise Office Inquiries – Noise Hotline & online comment forms

- 2016: 2,959
 - 10 people = 55% of comments
- 2015: 2,632
 - 4 people = 59% of comments
- 2014: 2,172
 - 4 people = 63% of comments

Calls to the Noise Office have increased in the past couple of years

Aircraft Operations

- 2016: 412,170 operations – 8% increase
- 2015: 381,408 operations – 12% increase
- 2014: 340,478 operations – 7% increase
- 2013: 317,186 operations

The difference between 2013 and 2016 was 94,984 operations.

That's 260 more aircraft going over homes per day.

The increase in operations is predominantly what is causing additional noise complaints

Sea-Tac Airport Economic Impacts

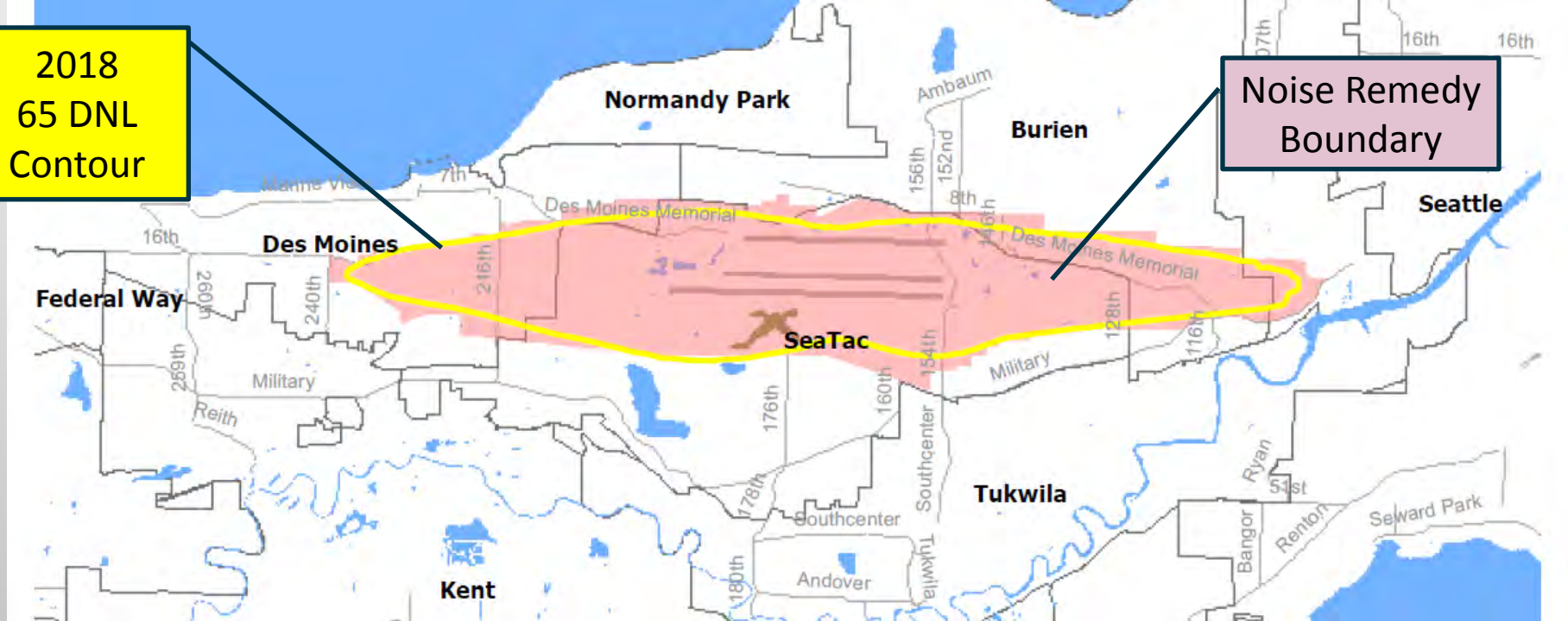
- Economic Impact = \$16.3 billion annually in business revenue
- Generates 171,769 jobs / 19,000 directly related to the airport
- Approximately 4,000 airport employees live in the local cities
- Each international flight generates \$75 million annually to the economy
- Tourism creates \$365 million annually in state & local taxes and approximately 140,000 jobs.

Sea-Tac Airport is a major contributor to the local economies

Noise Contour & Noise Remedy Boundary

2018
65 DNL
Contour

Noise Remedy
Boundary



Residential sound mitigation occurs within the Noise Remedy Boundary per FAA rules

Accomplishments to Date

- 9400 Single-family homes sound insulated
- 8 Schools sound insulated
- 14 College buildings sound insulated
- 246 Condo units sound insulated
- 359 Mobile home units acquired and residents relocated

\$400 million spent since 1985 on mitigation

Part 150 Approved Sound Mitigation Programs

- Single-Family Residential Insulation – Continuation of 1985 program
- Condominium Insulation
- Apartment Insulation – Pilot Project
- Places of Worship Insulation – Pilot Project
- South Approach Transition Zone Voluntary Residential Acquisition
- School Insulation –MOA with FAA & School District

Part 150 is the FAA regulation outlining how airports study noise

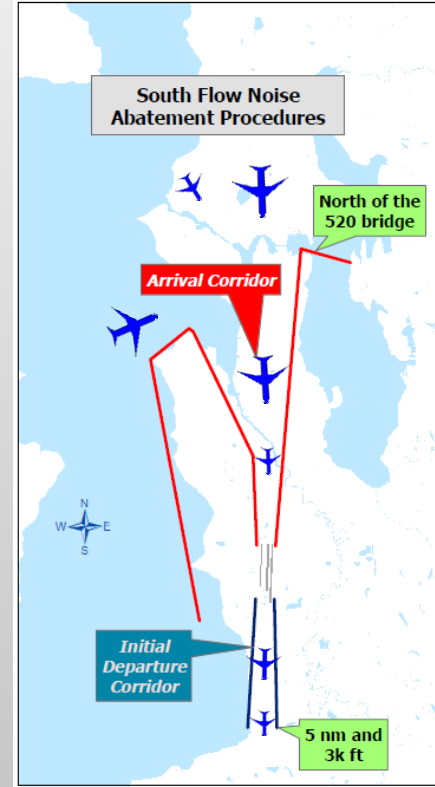
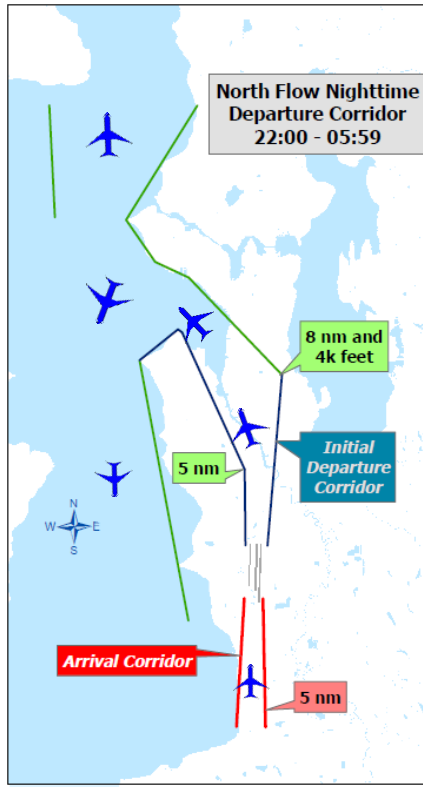
Noise Abatement

- Flight Procedure Monitoring



Procedures are designed to minimize noise impacts

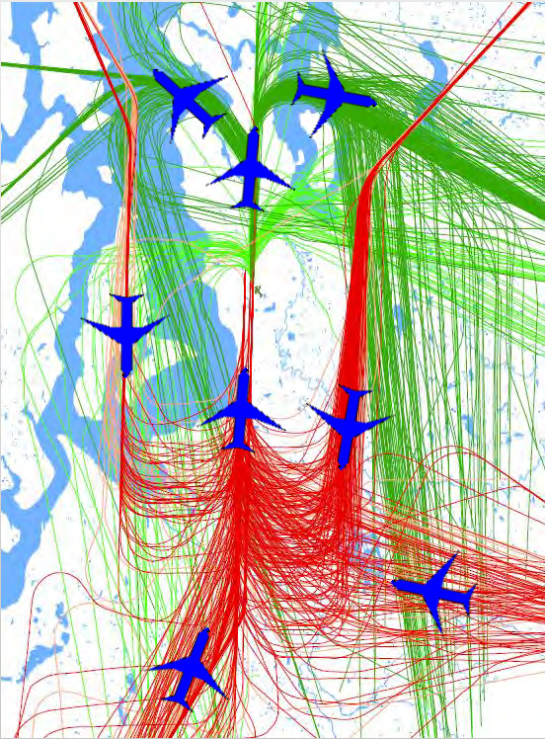
Jet Noise Abatement Procedures



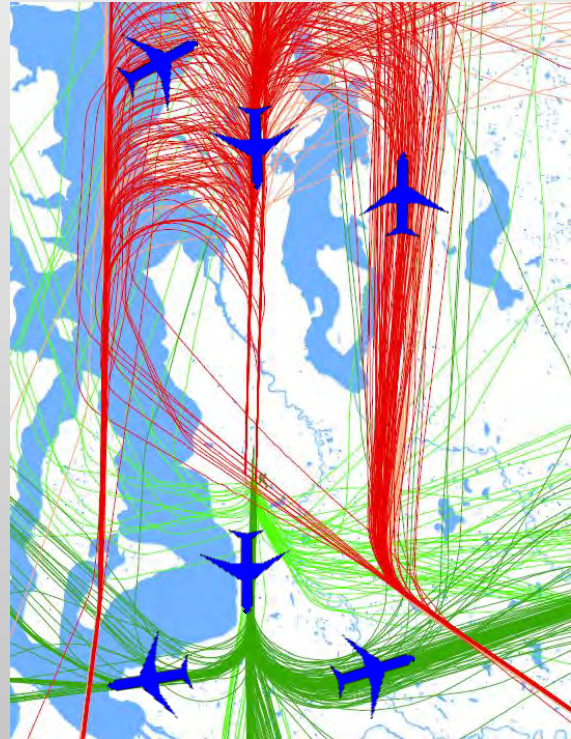
Noise Abatement Procedures are for jet aircraft only

Flight Paths

North Flow



South Flow

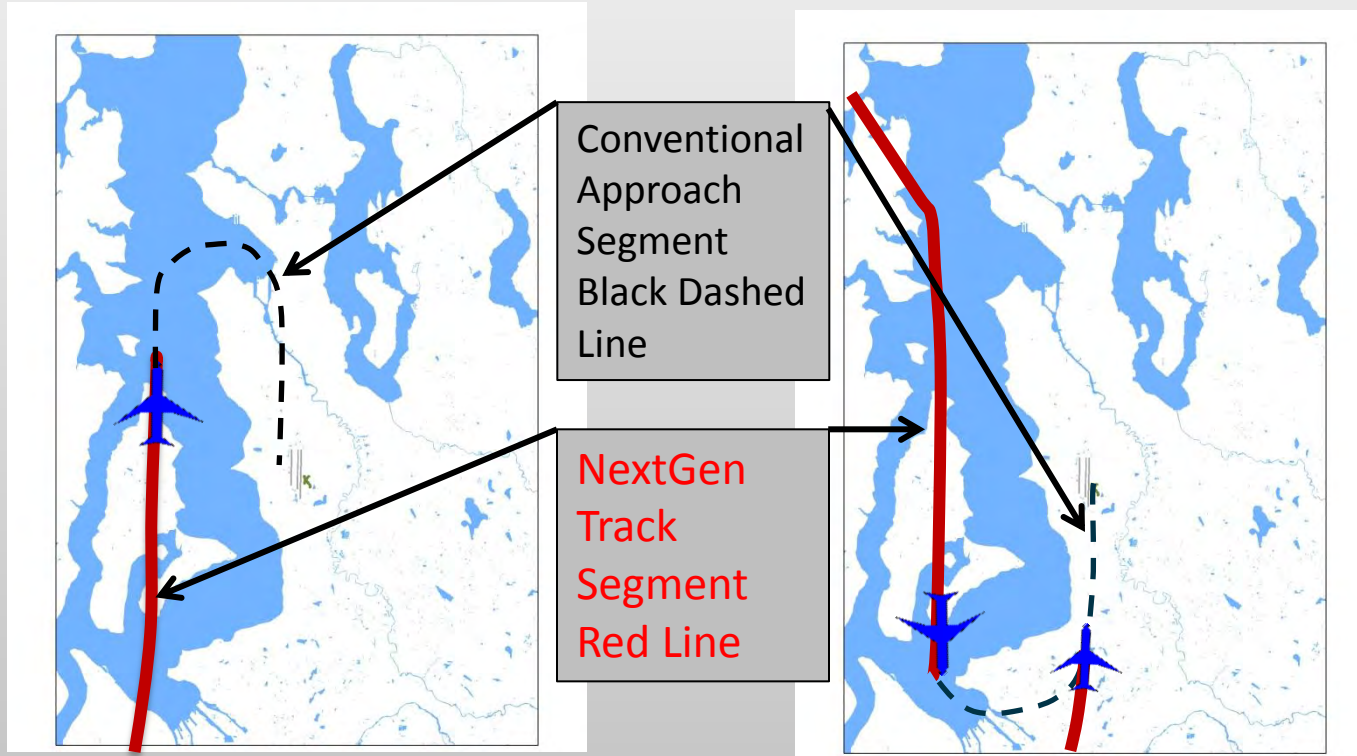


Flight paths have been in place since 1990

NextGen And Conventional Approaches At SEA

South Flow

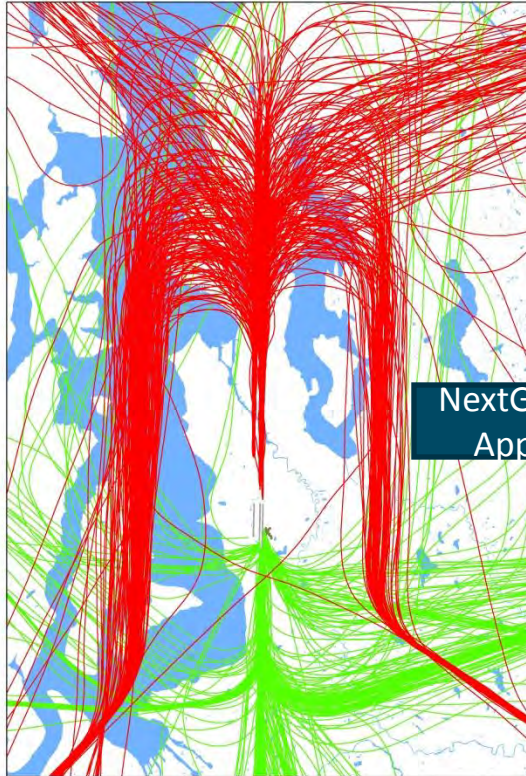
North Flow



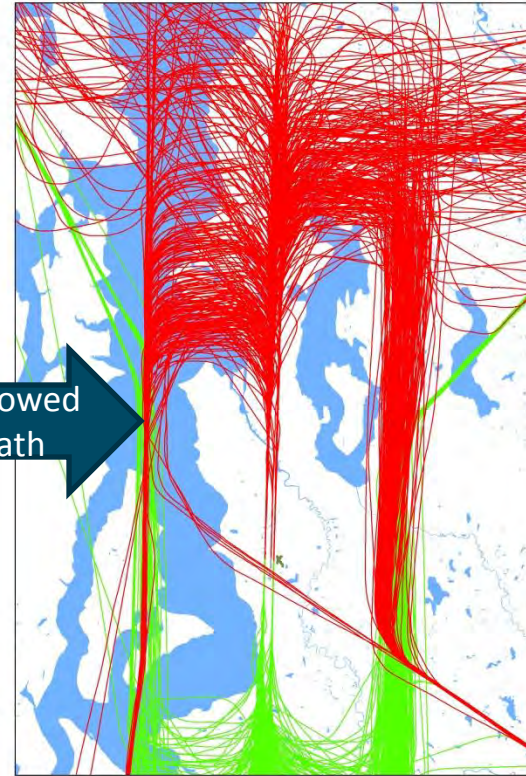
Not all approaches are NextGen

South Flow Before and After Greener Skies

March 28, 2012



March 29, 2017

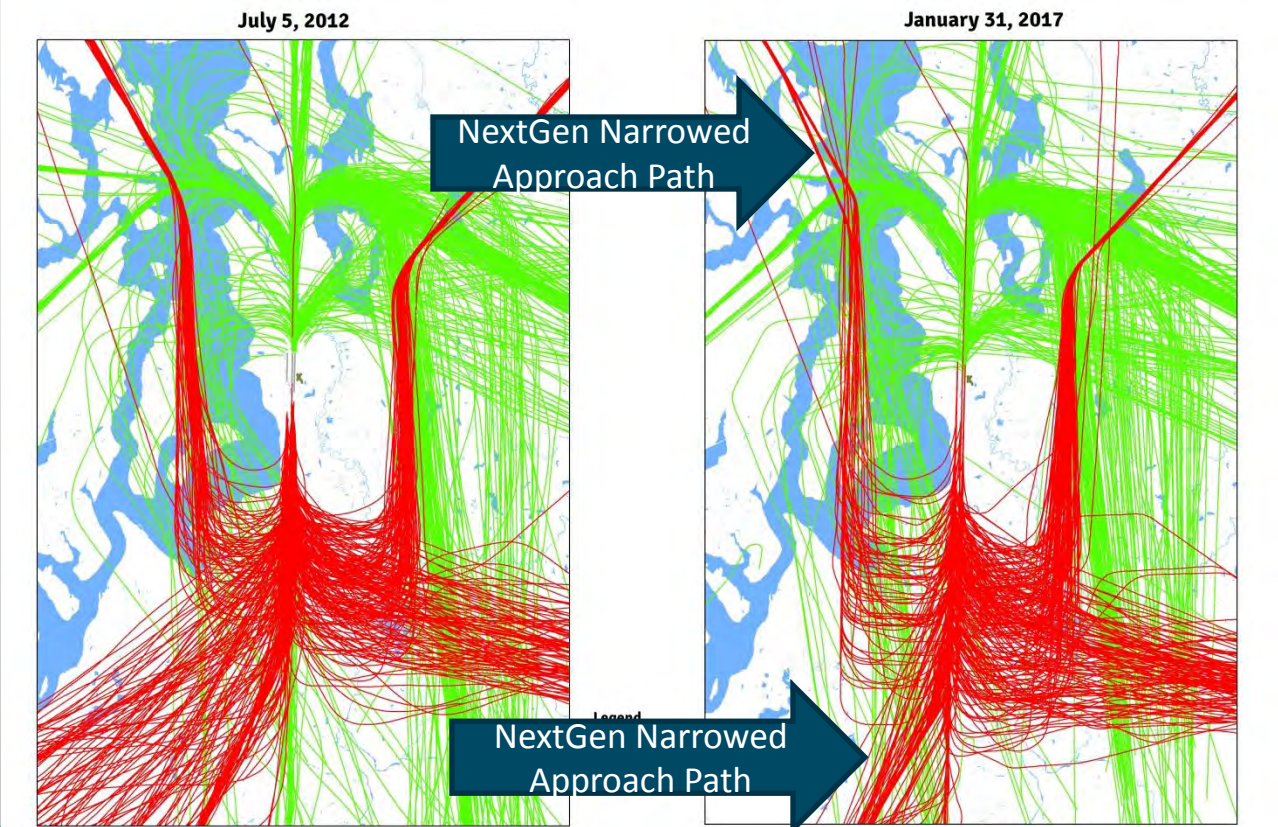


NextGen Narrowed
Approach Path

Legend
— Arrivals
— Departures
— Water

Greener skies approaches are west side only

North Flow Before and After Greener Skies



Greener skies approaches are west side only

Questions?