Mitigation Techniques for Airport Ground Noise Operations

• According to Part 150
  • Changes in airport layout
  • Isolate run-ups
  • Install barriers/shielding
  • Restrict operations¹
  • Land use controls

¹Part 161 has essentially negated an airport’s ability to “restrict operations”
Mitigation Techniques for Airport Ground Noise Operations

- Based on major ground noise sources at SEA:
  - Engine run-ups
    - Relocation
    - Barriers
    - Operational (e.g., time of day)
  - Start-of-takeoff roll
    - Barriers
    - Operational (e.g., intersection departures)
  - Reverse thrust upon arrival
    - Operational (e.g., time of day and need)
  - Taxi
    - Operational (e.g., one engine taxi)
  - Queue
    - Operational (e.g., sequencing)
  - Auxiliary Power Unit (APU) use
    - Operational (e.g., switch to ground power)
Next Steps

- Analyze and recommend mitigation options at SEA
  - Present recommendations at the April 11, 2022 meeting
- Provide report documenting results of ground noise study
  - First draft expected in May 2022