Scope of work

HMMH is conducting a study of airport ground noise exposure in the communities surrounding Seattle-Tacoma International Airport (SEA).

1. Ground Noise Data Research
   - Collection and analysis of aircraft flight and run-up statistics
   - Operator surveys

2. Noise Monitoring
   - Temporary noise monitoring east and west of airport to obtain data not captured by SEA’s 24 permanent noise monitors
   - Identify aircraft types and operations that may cause community exposure to ground-based noise
   - Capture noise levels from various operating scenarios including north flow, south flow, taxiway noise, and ground run-ups

3. Identifying Mitigation Options

4. Reporting Project Results
Recommendations

• Start-of-takeoff roll on departure
  • Implement a policy to recommend airlines depart using rolling takeoffs

• Taxi
  • Work with operators to develop a policy of using one engine to taxi to the runway to depart

• Engine run-ups
  • Review our results to see if any areas exist to move the primary run-up locations that take advantage of existing structures to block the noise

• Reverse Thrust
  • Work with operators to improve voluntarily not applying reverse thrust during nighttime operations and amend chart language to all times of the day as possible
  • Conduct further outreach to the carriers to increase awareness

• Queue
  • Develop a policy and encourage the FAA to implement sequencing to reduce or eliminate aircraft queues to depart SEA

• APU
  • Continue to monitor developments in resolving power and AC issues at the gates, once resolved work with appropriate Port staff to monitor the use and rules enforcement
Next Steps

• Provide report documenting results of ground noise study
  • First draft expected in May 2022