



AeroAcoustics has been providing turn-key, aircraft certification services since 1989. Our experiences gained in certification programs, ranging from airships to 747's, complements the broad range of capabilities and technical expertise offered by our staff. Our senior staff includes Federal Aviation Administration Designated Engineering Representatives (DER's) in the fields of acoustics and flight analysis. We work closely with associate test pilot, structures, systems and propulsion DER's.

Our participation in numerous type certification and supplemental type certification programs has required close coordination with the United States FAA and foreign certification authorities including EASA. We have obtained over 250 Supplemental Type Certificates for over 100 clients and, as a result, have developed excellent working relationships with personnel at the FAA.

Our facilities include offices, warehouse and two hangars located at North Paine Corporate Hangars, on Paine Field in Everett, WA. Our location is 30 minutes from the Federal Aviation Administration Northwest Mountain Region Offices.

AeroAcoustics offers certification and technical services in the following fields:

- Certification Planning, Management and Coordination.
- Flight Test. Performance, flutter, icing and RVSM tests.
- Acoustics. Internal and external noise. Ground tests, Flight tests, Analytical predictions, and Noise reduction modification design including acoustical lining.
- Structures. Loads and Stress analysis. Vibration Analysis. Finite Element modeling
- Systems. Component Certification, Icing Certification.
- Publications and Manuals. Aircraft Flight Manuals, Installation Manuals, Continuing Airworthiness Instructions.
- CAD/CAM and Manufacturing Support. Solid Modeling and Drawings for parts, assembly and installation.
- Ground Tests. Power plant static thrust, airframe vibration (GVT) and static loads tests. Thrust Reverser Tests.
- Flight Test Instrumentation, Noise Measurement Equipment, DGPS, GVT Instrumentation, Static Test Rigs.



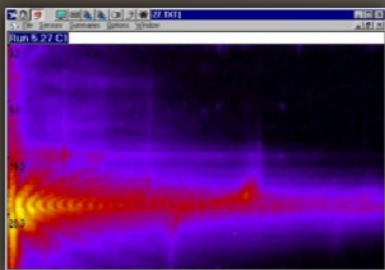
## Certification

Certification planning, management and coordination is the most important aspect of any project and is the key to a successful program. We specialize in providing turn-key certification services from the initial project application to the final awarding of the type certificate approval.



## Flight Test

AeroAcoustics can coordinate all aspects of aircraft flight testing. Our focus is on the successful completion of FAA certification testing. We have conducted over 100 actual FAA flight test programs in all classes of airplanes, rotorcraft and airships. In addition to DER's in all disciplines, AeroAcoustics can provide personnel for all test needs including: Test Pilot and Co-Pilot, Test Director, Data Acquisition System Test Engineers, Onboard and Ground Based Analysts, Ground Operations Director and A&P Mechanics.



## Acoustics

We specialize in all aspects of aircraft acoustics; however, our focus is on the successful completion of FAR Part 36 and ICAO Annex 16 noise

certification tests. We have conducted over 150 noise certification programs for all classes of airplanes and rotorcraft.



## Systems

AeroAcoustics conducts system tests using traditional test methods or by approved

analytical means. Analytical methods are preferred as the means of first resort due to their cost-saving advantage. If we can't solve the problem analytically, then a more traditional test can be conducted using state of the art instrumentation.

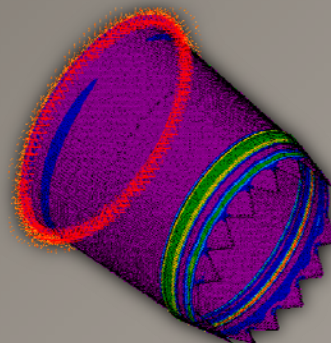
## Structures

AeroAcoustics can conduct analysis of aircraft structures using finite element modeling or stress analysis methods. FEM analysis is tightly integrated with CAD solid modeling and loads analysis, including aerodynamic loads. We can conduct static and/or dynamic tests of structures.



## CAD/CAM

Computer Aided Drafting (CAD) and Computer Aided Manufacturing (CAM) capabilities are essential tools in today's aerospace environment.



## Technical Manuals

We have over 20 years experience in the preparation of publication quality manuals for the aircraft industry. Where appropriate, manuals include preparation of data substantiation documentation suitable for

FAA submittal and approval.

## Instrumentation

Our instrumentation is optimized for quick setup and efficient, quality operations. We provide tightly integrated, data acquisition systems on-

board the aircraft to present real time data to facilitate rapid and accurate tests. Proprietary software for test time computations permits accelerated compliance assessment.

