

Evaluation Capabilities at the Facility for Acceptance, Calibration, and Testing (FACT)

Researchers at the Sandia National Laboratories Facility for Acceptance, Calibration, and Testing (FACT) site have been working to expand capabilities for the evaluation of infrasound sensors. These capabilities include an improved infrasound isolation testing chamber and expanded field sites with an installed infrasound array. The new infrasound chamber improves upon the isolation of the sensors under test from ambient pressure and temperature conditions, allow for a greater volume for testing more sensors simultaneously, support pressurization and evacuation to simulate different altitudes, and include a driver for generating higher pressure signals than had previously been achievable. The infrasound field stations at the FACT Site Array cover an aperture of up to 3 kilometers and allow for the simultaneous deployment of multiple sensors and wind filter designs at each element for easy comparison over a long-term deployment.

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