

Attachment 1: Activities Funded

Grantee:	CSDA Design Group
Grant number:	Grant # 2018-1810-AQD
Grant Name:	DCA Airplane Noise Assessment

This grant funds the following grantee activities:

A. General Requirements

This is the Phase II Study. Under the terms of this grant, the Grantee shall conduct the activities below:

1. Analyze airplane noise data from the ground-based monitoring network.
2. Model current noise exposures in all District communities impacted by NextGen implementation.
3. Forecast noise scenarios based on NextGen implementation plans and alternates.
4. Recommend noise mitigation and abatement measures that are respectful of FAA safety, fuel cost, emissions, and efficiency concerns.
5. This FY2018 DCA airplane noise assessment (or Phase II) study will build and expand on the previous study, for incorporating various supplemental noise metrics suggested by the U.S. Department of Defense (DOD) Noise Working Group (Technical Bulletin: Using Supplemental Noise Metrics and Analysis Tools, DOD Noise Working Group, December 2009). Use the Phase I study's raw, as well as processed, databases, analysis, background research material and AEDT modeling input streams and outputs.

B. Target Population

The communities in the flight plan of DCA, and those identified by FAA.

C. Specific Service Requirements

1. Revise and streamline all the preliminary documents developed during the Phase I study and keep them ready for incorporation of parts into the comprehensive assessment reports.
2. Analyze the Phase I study's short-term field measurement data for supplemental noise metrics, sleep interference and classroom disturbance by evaluating noise impacts from north and south air traffic flow separately.

3. Analyze and map Phase I AEDT noise modeling results for various supplemental metrics, evaluating north and south air traffic flow separately. Note: During Phase I, AEDT modeling was performed for eight days in 2010 and another eight days in 2015-2016 period and model results for DNL were evaluated.
4. Analyze noise measurement field data collected for four (4) weeks in 2017, evaluating north and south air traffic flow separately.
5. Conduct a field measurement survey during 2018 spring/summer:
 - a. Conduct exterior noise measurements for a minimum of 30 days at multiple (up to 6) sites in the District and analyze the data for DNL and supplemental noise metrics, evaluating north and south air traffic flow separately;
 - b. Conduct interior noise measurements for up to 5 days at multiple (up to 6) sites and analyze data for relevant supplemental noise metrics, sleep interference and classroom disturbance, by evaluating north and south air traffic flow separately.
6. Analyze and map by using field measurements data from the Metropolitan Washington Airports Authority (MWAA) permanent noise monitoring terminals (NMT) in the District and DCA surroundings. Minimum eight (8) weeks of representative data of a recent year from NMTs around DCA will be used for this analysis and mapping of DNL and supplemental metrics, considering north and south air traffic flow separately.
7. Participate in at least one public engagement session in the District, including making a presentation and discussing the results.
8. Develop comprehensive assessment reports and provide certified copies.
9. Work in close coordination with DOEE and the community stakeholders.
10. Carry out the tasks presented in the Application, as amended on March 19, 2018.