

The Aerospace Corporation
Experimental STA Application
File Number: 1573-EX-ST-2026

Supplemental Explanation of Experiment

This experiment will involve Aerospace transmitting toward a NOAA satellite.

Aerospace is *not* communicating with the satellite, nor is the satellite communicating with the Aerospace radio. Rather, this is an interference study to see what level of radio noise the satellite can tolerate and still perform its mission.

The Aerospace transmissions will appear to the satellite as in-band radio noise.

Aerospace has two antennas, a smaller one with less gain that it is mostly likely to use, and a larger one with more gain that it might use on occasion.

While the planned experiments are to take place from Aerospace's offices in El Segundo, California, if the program is unable to collect sufficient data in a short period of time, the program will take its equipment to a site in Fairbanks, Alaska where the satellite will pass more frequently, so that it can collect more data.

The data being collected will come from the satellite, down over a NOAA data link from its satellite.

The radio operations that are the subject of this application are strictly intended to test the resiliency of the satellite's operations.

To answer the Commission's unspoken question: no, there will be no jamming of the satellite signal. This is just a measurement of radio tolerances, not any attempt to jam any radio operations.

The satellite in question is owned and operated by NOAA. NOAA has asked NASA to contract with Aerospace to conduct this experiment so that NOAA has a better understanding of the risks to its climate and weather observations from the entry of new communications services in the 50 GHz band.

For any further questions, please contact Anne Cortez, Esq., Counsel for Aerospace, 520-360-0925 or anne@washingtonfederalstrategies.com.