

## FCC Application for Experimental License STA

File Number: 0407-EX-ST-2020

### Exhibit 1: Information on Experiment

#### Purpose of Experiment

SRC Inc., respectfully requests to the Federal Communications Commission to grant an Experimental License for the operation of one SRCSAZE03 Radar. The SRCSAZE03 will be operated on an aircraft at an elevation not to exceed 10,000 ft (3 km) above ground level (AGL). The purpose is to conduct measurements of the sea (lake) surface-bounce (diffuse scattering) channel as a function of polarization and incidence angle. These measurements will help inform channel models being used to simulate and validate communication techniques.

The period of time the SRC will be requesting our Experimental License is over the period of May 1, 2020 through June 30, 2020. The radars will be operated intermittently up to 8 hours per day.

#### Operating Locations

The SRCSAZE03 Radar will be operated from an aircraft at an elevation not to exceed 10,000 ft (3 km) above ground level within our desired radius of operation. The period of time we anticipate operation of the SRCSAZE03 radar is from May 1 - June 30, 2020. The coordinates the SRC Inc., will use are:

Location	Latitude	Longitude	Radius of Operation	Max Elevation (km-AGL)
3 km NW of Otisco Valley, NY	43°27'58.00"N	75°28'56.00"W	100 km	3
1.5 km NW of West Leyden NY	42°50'46.00"N	76°15'45.00"W	100 km	3
2.3 km SW of Bristol, NY	42°43'21.00"N	77°25'44.00"W	100 km	3
Arlington, VA	38°51'7.00"N	77° 2'57.00"W	100 km	Ground Level

#### Operating Schedule

The SRCSAZE03 radar will be operated on the following schedule over the period of the Experimental License grant:

Schedule	Operations
Hours per day	Intermittently up to 3 Hours per day, 3 times per week, weather permitting

#### STOP Buzzer for Experiment

SRC Inc., understands that operation will be on a secondary non-interference basis. In the event interference complaints were to occur, preventative measures have been taken to cease and desist from transmissions until they can be resolved. We have established a Stop Buzzer point of contact to quickly react with any interference complaints that are the result of our system. The point of contact for the Stop Buzzer is:

Point of Contact	Telephone Number
Cease Buzzer Primary	202-421-7227

