

FCC Application for Experimental License STA

File Number: 0988-EX-ST-2014

Exhibit 1: Information on Experiment

Purpose of Experiment

SRC respectfully requests to the Federal Communications Commission to grant us an Experimental STA License for the operation of one SRC3600 S-Band Radar. The purpose of our request is to conduct performance radar engineering tests on the radar.

Operating Schedule

The period of time SRC will be requesting our Experimental STA is six months; over the period of January 1, 2015 through June 1, 2015. The radar operating schedule is 7am – 8 pm Monday through Friday.

Radar Information

The SRC3600 S-Band Radar will be operated within the following parameters:

Parameter	Specification
Emission Designators	14M00Q3N, 41M0Q8N
Modulation	LFM (14M00Q3N), Phase coded (41M0Q8N)
Power output	37.4 KW (PEP)
Frequency Band	3100-3500 MHz
Antenna type	Non-rotating, electronically steered antenna
Scanning Range	Scans 360-degrees in azimuth, and from -20 degrees to 90 degrees elevation. Azimuth scanning configurable for 360° or focused sector coverage.

Operating Location

The SRC3600 S-Band Radar will be operated from a pedestal that can be adjusted up to 11 ft above ground level at a fixed location within the radius of operation. The coordinates SRC will use are:

Location	Latitude	Longitude	Elevation (Above mean Sea Level)	Radius of Operation
Syracuse, N.Y.	43° 7'42.63"N	76° 5'3.04"W	120.4 meters (395 ft.)	3 kilometers (2 miles)

Cease Buzzer for Experiment

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

Point of Contact	Telephone Number
Cease Buzzer (Primary)	(315)-452-8291
Cease Buzzer (Secondary)	(315)-452-8114