

FCC Application for Experimental License

File Number: 0725-EX-PL-2015

Exhibit 1: Information on Experiment

Purpose of Experimental STA Request

SRC is requesting an Experimental License for the purpose of research, testing, and development of an FR25 radar. The date of our experimental request is from January 1, 2016 through January 1, 2018.

SRC FR25 Specifications

The SRC FR25 Radar specifications are presented in the table below:

Specification	Value
Frequency Band	420-450 MHz
Average Power Output	105 watts
Antenna Gain	7 dB
ERP	320.9 Watts
Antenna Beam width	60 Degrees (V/H)
Directional	Yes
Steerable	Mechanical (0-360 Degrees)
Antenna Orientation during transmissions	Fixed
Emission Designator	29M7Q3N
Modulation	LFM
Number of Frequencies Required	1

Locations

SRC will be operating one FR25 Radar at the following location:

Location	Latitude/Longitude	Radius of Operation	Number of Radars
Syracuse, NY	43° 7' 47"N 76° 5' 14"W	1 km	1

Operating Schedule

The operating schedule SRC will use for the SRC-FR25 Radar during the course of the Experimental License grant is:

Schedule Times	Date
Daily Operation during Experiment	Week days
Operating time	8AM-5PM
Transmitting time	Intermittent

Interference Mitigation

All transmissions will be conducted with the FR25 radar will be from static location. The antenna will be stationary and pointing in one direction. The SRC FR25 radar can blank transmissions from 0 and 360 degrees in azimuth if necessary to protect other services that may be operating.

Cease Buzzer Point of Contact

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
Primary	(315) 883-4449
Secondary	(315) 452-8114