

FCC Application for Experimental STA

File Number: 0620-EX-ST-2014

Exhibit 1: Information on Experiment

Purpose of Experimental STA Request

SRC is requesting an Experimental Special Temporary Authorization for the purpose of radar waveform testing in a semi-arid environment. Our requested dates are for a six month period ranging from August 1, 2014 through February 1, 2015.

Locations

SRC will be operating up to six (6) SRC-3554 Radars between the following two locations:

Location	Latitude/Longitude	Radius of Operation	Number of Radars
Merced CA	37°21'40.00"N 120°22'40.00"W	10 km	4
Patterson, CA	37°23'28.91"N 121° 5'7.53"W	10 km	2

SRC-3554 Frequency Requirements

A single SRHawk (SRC-3554) radar requires only one frequency within the 16.21-16.5 GHz operating band of the system to operate. If more than one radar is used each frequency must be separated by are at least 50 MHz. Our experiment will utilize:

Location	Number of Radars to be used (up to)	Number of Frequencies used per Radar	Total Frequencies needed for Experimental STA
Merced, CA	4	1	4
Patterson, CA	2	1	2

Operating Schedule

The operating schedule SRC will use for the SRC-3554 Radar during the course of the Experimental STA grant is:

Schedule Times	Date
Start Date of Experiment	August 1, 2014
Stop Date of Experiment	February 1, 2015
Daily Operation during Experiment	Intermittently Up to 24 hours per day

Interference Mitigation

The SRC-3554 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
Cease Buzzer	315-452-8114