

## 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:

<b>Point of Contact</b>	<b>Telephone Number</b>
Cease Buzzer	315-452-8114