

**Why an STA License is Necessary**

A Special Temporary Authority (STA) is required to support temporary communication link testing.

**Purpose of Operation**

The purpose of this license is to support system development, testing and demonstrations.

**Required Dates:** 04/20/2016 to 10/20/2016

**Transmitter Technical Information:****Location 1 (Lick Observatory Mt. Hamilton):**

- Site location: 37-20-29 N, 121-38-34 W. Altitude: Ground to 10 feet
- Coordinates: within 4 Kilometers of 37-20-29 N, 121-38-34 W
- Transmit line of bearing: 255 – 285 degrees
- Manufacturer: Boeing experimental
- Tuning range: 3700 - 4200 MHz
- Antenna type: GD Satcom, model 1184-480
- Antenna gain (max): +35.5dBi
- Maximum effective radiated power (ERP): 20,000 Watts
- Emissions: 80MG2W, 40M0G2W, 20M0G2W, and 20M0W7D

**Location 2:**

- Site location: 37-22-14 N, 122-02-59 W. Altitude: Ground to 50 feet.
- Coordinates: mobile within 5 miles of site location
- Manufacturer: Boeing experimental
- Tuning range: 3700 - 4200 MHz
- Antenna type: Boeing manufactured omni-directional
- Antenna gain (max): +0dBi
- Maximum effective radiated power (ERP): 5 Watts
- Emissions: 80MG2W, 40M0G2W, 20M0G2W, and 20M0W7D

**Stop Buzzer Contact Information**

The “Stop Buzzer” point of contact is Dave Bryant at 206-852-1353.