



25 October 2018

Introduction

Intel is a world leader in computing innovation. The company designs and builds the essential technologies that serve as the foundation for the world's computing devices. Intel also offers a portfolio of wireless communications solutions to connect a broad range of devices. Hardware and software products by Intel and its subsidiaries power the majority of the world's data centers, connect hundreds of millions of cellular handsets and help secure and protect computers, mobile devices and corporate and government IT systems. Intel technologies are also inside intelligent systems, such as automobiles, automated factories and medical devices.

Testing to be Performed

Intel's research and development teams have been designing new radio technologies for the next generation broad band wireless devices. A Special Temporary Authority grant is requested for testing and demonstrations. We have received authorization from the carrier to utilize their spectrum for these tests, and will not connect to their network. The equipment for all sites will be identical.

Locations:

1. Hillsboro, Oregon
45°32'34"N
122°57'43"W
400 meter radius
2. Hillsboro, Oregon
45°32'23"N
122°54'52"W
1.5 km radius
3. Santa Clara, California
37°23'10"N
121°57'53"W
2.5 km radius

Proposed Operation: 11/4/2018 – 3/4/2019

"Stop Buzzer" Contact	stopbuzzer@intel.com
	John A. Hammond
	503-264-8726

Proposed Transmitter & Antenna Parameters:

Site Details					Transmitter Emission					
Location	Station Type	Latitude	Longitude	AGL meters	Antenna Type:	Antenna Gain dB	ERP dBm	Frequency MHz	Bandwidth MHz	Emission Designator MW7W
Hillsboro, Oregon 400 meter radius	MO to MO	45°32'34"N	122°57'43"W	25	omni	2.7	23.55-31.55	627-642 673-688	10	10MW7W
Hillsboro, Oregon 1.5km radius	MO to MO	45°32'23"N	122°54'52"W	22	omni	2.7	23.55-31.55	627-642 673-688	10	10MW7W
Santa Clara, California 2.4km radius	MO to MO	37°23'10"N	121°57'53"W	32	omni	2.7	23.55-31.55	627-642 673-688	10	10MW7W

Number of Combined Antenna Arrays	Power to Array dB	Gain Per Array dBi	Combined Arrays Pout dBm EIRP	Combined Arrays Pout dBm ERP
1	23	2.7	25.7	23.55
2	23	2.7	25.7	25.55
3	23	2.7	25.7	28.55
4	23	2.7	25.7	31.55

Geographical Areas of Proposed STA Locations:

- Hillsboro, Oregon
45°32'34"N
122°57'43"W
400 meter radius



- 2. Hillsboro, Oregon
45°32'23"N
122°54'52"W
1.5 km radius



- 3. Santa Clara, California
37°23'10"N
121°57'53"W
2.5 km radius

