



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 four 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
4. Santa Clara, California
37°24'12"N
121°58'11"W
500 meter radius

Proposed Operation: 10/14/2018 – 4/14/2019

"Stop Buzzer" Contact

stopbuzzer@intel.com
John A. Hammond
503-264-8726

Intel Corporation
2111 NE 25th Avenue, 3F2-15
Hillsboro, OR 97124

Proposed Transmitter & Antenna Parameters:

Site Details					Transmitter Emission					
Location	Station Type	Latitude	Longitude	AGL meters	Antenna Type:	Antenna Gain dB	Maximum ERP dBm	Frequency MHz	Bandwidth MHz	Emission Designator MW7W
Hillsboro, Oregon 400 meter radius	FX to MO	45°32'34"N	122°57'43"W	25	directional*	19	52.85 dBm	2496-2690	20	20MW7W
	MO to FX				omni	7 dB	27.85 dBm			
Hillsboro, Oregon 1.5 km radius	FX to MO	45°32'23"N	122°54'52"W		directional*	19	52.85 dBm	2496-2690	20	20MW7W
	MO to FX				omni	7 dB	27.85 dBm			
Santa Clara, California 2.5 km radius	FX to MO	37°23'10"N	121°57'53"W		directional*	19	52.85 dBm	2496-2690	20	20MW7W
	MO to FX				omni	7 dB	27.85 dBm			
Santa Clara, California 500 meter radius	FX to MO	37°24'12"N	121°58'11"W	56	directional*	19	52.85 dBm	2496-2690	20	20MW7W
	MO to FX				omni	7 dB	27.85 dBm			

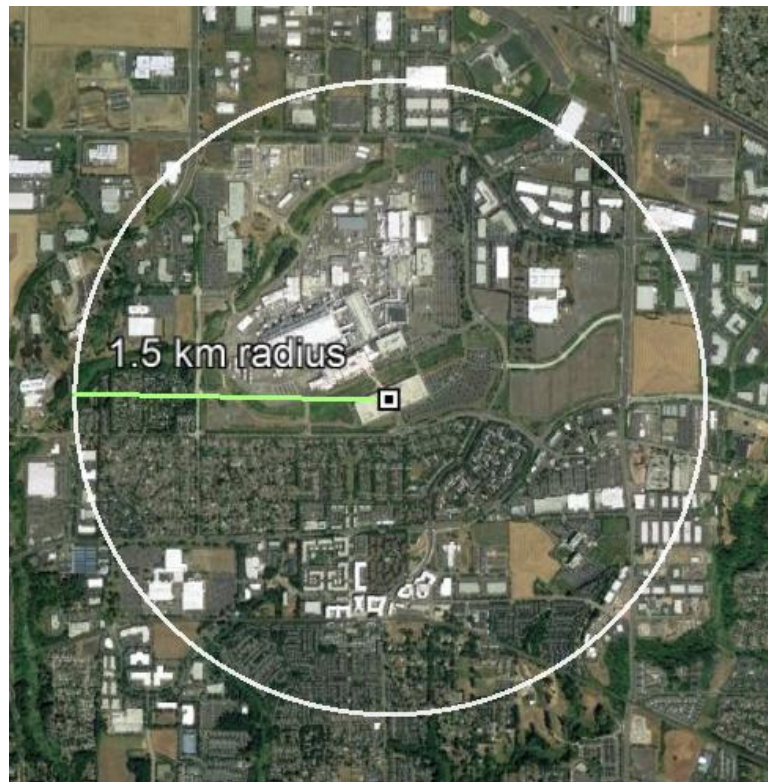
*Directional Antenna Information: Due to mobile operations, orientation in the horizontal plane of the directional antenna may be between 0-360° Orientation in the vertical plane will not be utilized, hence no value listed.

Geographical Areas of Proposed STA Locations & FAA Information:

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



Geographical Areas of Proposed STA Locations & FAA Information:

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



- 4. Santa Clara, California
37°24'12"N
121°58'11"W
500 meter radius

