

FCC Application for Special Temporary Authority

Explanation

Please explain in the area below why an STA is necessary:

Though we are planning develop solutions which work on 5G cellular networks, public 5G services are not available for now. Therefore, we need to set up 5G cellular network using STA.

Purpose of Operation

Please explain the purpose of operation:

We will develop a simple manufacturing line where machines and sensors are connected to each other via 5G, and evaluate the efficiency of manufacturing.

Information

Class of Station:

Fixed

Request period of Operation

Operation Start Date:

4/13/2020

Operation End Date:

10/12/2020

Manufacturer

List below transmitting equipment to be installed

Manufacturer:	Model Number	No. of Units	Experimental? (Y/N)
Ericsson	AIR533 1	1	N
Ericsson	2203	1	N

Station Location (Please Provide this for EACH Location)

Street Address:	2535 Augustine Dr 3rd floor
City:	Santa Clara
State:	CA
Latitude:	37.383038
Longitude:	-121.971415
Mobile: (Y or N)	N
Radius of Operation:	10m

**Antenna Registration Question 4:
Directional Antenna Information**

Is a directional antenna (other than radar) used? If Y:

(a) Width of beam in degrees at the half-power point:	+/- 60 degrees in azimuth and +/- 15 degrees elevation
(b) Orientation in horizontal plane:	0 deg
(c) Orientation in vertical plane:	3 deg

Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building?

If Yes: (If no, do not answer further)

(a) Overall height above ground to tip of antenna in meters:	<input type="text"/>
(b) Elevation of ground at antenna site above mean sea level in meters:	<input type="text"/>
(c) Distance to nearest aircraft landing area in kilometers:	<input type="text"/>

