Exp	laina	ation

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

Though we are plannig 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
<u> </u>	

Request period of Operation	
Operation Start Date:	4/13/2020
Operation End Date:	10/12/2020

Manufacturer					
List below transmitting equi	pment to be installed				
	Manfacturer:	Model	No. of		
		Number	Units	Experimental? (Y/N)	
		AIR533			
	Ericsson	1	1	Ν	
	Ericsson	2203	1	N	

Station Location (Please Pro	ovide this for EACH Location)					
Street Address:	2535 Augustine Dr 3rd	floor				
City:	Santa Clara					
State:	CA	Antonna Bogistration Question 4:				
Latitude:	37.383038	Antenna Registration Question 4.				
Longitude:	-121.971415	Directional Antenna Information				
Mobile: (Y or N)	N					
Radiuis of Operation:	Radiuis of Operation: 10m					
Is a directional antenna (ot	her than radar) used? If Y:					
(a) Width of beam in degree	s at the half-power point:	+/- 60 degrees in azimuth and +/- 15 degrees elevation				
(b) Orientation in horizontal	plane:	0 deg				
(c) Orientation in vertical pla	ane:	3 deg				
Will the antenna extend me	ore than 6 meters above the g	round, 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?	No					
If Yes: (If no, do not an	swer further)					
(a) Overall height above ground to tip of antenna in meters:						
(b) Elevation of ground at antenna site above mean sea level in meters:						
(c) Distance to nearest aircraft landing area in kilometers:						

(d) list any natural formation of existing man-made structures (hills, trees, water tanks, towers, etc.) whith in the opinion of the applicant,							
would tend to	o shield the antenn	a from aircraft:					
Transmission	Information:						
Frequency	Frequency	Bandwith	Station Class	Output Power/ERP	Mean or	Frequency	Emissions Designator
ower Bound)	(Upper bound)		(F or M)	ER <u>P (in W/m</u> W)	Peak	Tolerancy (+/-)	From Separate sheet
37000	40000	3000MHz	F	80W	Peak		400MW9W
Frequency	Frequency	Bandwith	Station	Output	Mean	Frequency	Emission
(Lower)	(Upper)		Class	Power/ERP	Peak	Tolerancy (+/-)	Designator
2110	2180	70MHz	F	70W	Peak		10M0F9W
Frequency	Frequency	Bandwith	Station	Output	Mean	Frequency	Emission
			Class	Power/ERP	Peak	Tolerancy (+/-)	Designator
Frequency	Frequency	Bandwith	Station	Output	Mean	Frequency	Emission
			Class	Power/ERP	Peak	Tolerancy (+/-)	Designator
Frequency	Frequency	Bandwith	Station	Output	Mean	Frequency	Emission
			Class	Power/ERP	Peak	Tolerancy (+/-)	Designator
Frequency	Frequency	Bandwith	Station	Output	Mean	Frequency	Emission
			Class	Power/ERP	Peak	Tolerancy (+/-)	Designator
Frequency	Frequency	Bandwith	Station	Output	Mean	Frequency	Emission
	. <u>.</u>		Class	Power/ERP	Peak	Tolerancy (+/-)	Designator
Frequency	Frequency	Bandwith	Station	Output	Mean	Frequency	Emission
			Class	Power/ERP	Peak	Tolerancy (+/-)	Designator