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APPLICATION FOR EARTH STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	FCC Use Only
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APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Swarm Wailuku HI Gateway Earth Station Application

1-8. Legal Name of Applicant			
Name:	Swarm Technologies, Inc.	Phone Number:	608-225-3173
DBA Name:		Fax Number:	
Street:	845 Madonna Way	E-Mail:	sara@swarm.space
City:	Los Altos	State:	CA
Country:	USA	Zipcode:	94024 -
Attention:	Dr. Sara Spangelo		

9-16. Name of Contact Representative

Name:	Kalpak Gude	Phone Number:	202-437-4484
Company:	Swarm Technologies, Inc.	Fax Number:	
Street:	845 Madonna Way	E-Mail:	kalpak@swarm.space
City:	Los Altos	State:	CA
Country:	USA	Zipcode:	94024-
Attention:	Kalpak Gude	Relationship:	Same

CLASSIFICATION OF FILING

<p>17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.</p> <p>a.</p> <p><input checked="" type="radio"/> a1. Earth Station (N/A) a2. Space Station</p>	<p>b.</p> <p><input checked="" type="radio"/> b1. Application for License of New Station</p> <p><input type="radio"/> b2. Application for Registration of New Domestic Receive–Only Station (N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration (N/A) b5. Assignment of License or Registration (N/A) b6. Transfer of Control of License or Registration (N/A) b7. Notification of Minor Modification (N/A) b8. Application for License of New Receive–Only Station Using Non–U.S. Licensed Satellite (N/A) b9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United States</p> <p><input type="radio"/> b10. Other (Please specify)</p> <p><input type="radio"/> b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States.</p> <p><input type="radio"/> b12. Application for Database Entry (N/A) b13. Amendment to a Pending Database Entry Application (N/A) b14. Modifiction of Database Entry</p>
<p>17c. Is a fee submitted with this application?</p> <p><input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).</p> <p><input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee</p> <p><input type="radio"/> Other(please explain):</p>	
<p>17d.</p> <p>Fee Classification BAX – Fixed Satellite Transmit/Receive Earth Station</p>	

<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: Not Applicable</p>	<p>19. If this filing is an amendment to a pending application enter:</p> <p>(a) Date pending application was filed: (b) File number of pending application:</p> <p>Not Applicable Not Applicable</p>
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TYPE OF SERVICE

<p>20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:</p>	
<p><input type="checkbox"/> a. Fixed Satellite</p> <p><input checked="" type="checkbox"/> b. Mobile Satellite</p> <p><input type="checkbox"/> c. Radiodetermination Satellite</p> <p><input type="checkbox"/> d. Earth Exploration Satellite</p> <p><input type="checkbox"/> e. Direct to Home Fixed Satellite</p> <p><input type="checkbox"/> f. Digital Audio Radio Service</p> <p><input type="checkbox"/> g. Other (please specify)</p>	
<p>21. STATUS: Choose the button next to the applicable status. Choose only one.</p> <p><input type="radio"/> Common Carrier <input checked="" type="radio"/> Non-Common Carrier</p>	<p>22. If earth station applicant, check all that apply.</p> <p><input checked="" type="checkbox"/> Using U.S. licensed satellites</p> <p><input type="checkbox"/> Using Non-U.S. licensed satellites</p>
<p>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:</p> <p><input type="radio"/> Connected to a Public Switched Network <input type="radio"/> Not connected to a Public Switched Network <input checked="" type="radio"/> N/A</p>	

24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).

- a. C-Band (4/6 GHz) b. Ku-Band (12/14 GHz)
 c. Other (Please specify upper and lower frequencies in MHz.)
Frequency Lower: 137.00 Frequency Upper: 149.95

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.

- a. Fixed Earth Station
 b. Temporary-Fixed Earth Station
 c. 12/14 GHz VSAT Network
 d. Mobile Earth Station
(N/A) e. Geostationary Space Station
(N/A) f. Non-Geostationary Space Station
 g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY: Choose only one.

- Transmit/Receive Transmit-Only Receive-Only N/A

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)

Not Applicable

ENVIRONMENTAL POLICY

<p>28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>RadHaz Report</p>
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ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

<p>29. Is the applicant a foreign government or the representative of any foreign government?</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>30. Is the applicant an alien or the representative of an alien?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>
<p>31. Is the applicant a corporation organized under the laws of any foreign government?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>
<p>32. Is the applicant a corporation of which more than one–fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

Yes No N/A

34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.

BASIC QUALIFICATIONS

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules?
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

Yes No

36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explanation of circumstances.

Yes No

Question 36

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explanation of circumstances.

Yes No

38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances

Yes No

39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhibit, an explanation of the circumstances.

Yes No

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.

Yes No

42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.

Yes No

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?

43. Description. (Summarize the nature of the application and the services to be provided).
(If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

(If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Swarm seeks authority for a new gateway earth station located in Wailuku, HI to communicate with its non-geostationary, non-voice mobile-satellite service system.

Narrative

43a. Geographic Service Rule Certification

By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.

A

By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.

B

By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.

C

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing Dr. Sara Spangelo	46. Title of Person Signing CEO
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47. Please supply any need attachments.

Attachment 1:	Attachment 2:	Attachment 3:
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WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT
(U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION
(U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

SATELLITE EARTH STATION AUTHORIZATIONS
 FCC Form 312 – Schedule B:(Technical and Operational Description)
 FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier:	Wailuku HI Gateway	E5. Call Sign:	
E2: Contact Name	Benjamin Longmier	E6. Phone Number:	608-225-3173
E3. Street:	640 Luakalae Place	E7. City:	Wailuku
		E8. County:	Maui
E4. State	HI	E9. Zip Code	96793
E10. Area of Operation:	Wailuku, HI		
E11. Latitude:	20 °54 '1.9 "N		
E12. Longitude:	156 °30 '16.6 "W		
E13. Lat/Lon Coordinates are:	<input checked="" type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> N/A
E14. Site Elevation (AMSL):	74.0 meters		

<p>E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>
<p>E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p>
<p>E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>

<p>E18. Is frequency coordination required? If YES, attach a frequency coordination report as</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>

POINTS OF COMMUNICATION

<p>Satellite Name: OTHER OTHER If you selected OTHER, please enter the following:</p>

E21. Common Name: Swarm 1	E22. ITU Name: USASAT-NGSO-7
E23. Orbit Location: NGSO	E24. Country: USA

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: Wailuku HI Gateway	
E26. Common Name:	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size<meters>	E41/42. Antenna GainTransmint and/or Recieve (____ dBi at ____ GHz)
Wailuku HI Gateway	W1/2	1	Swarm	001	1.1	2.0 dBi at 0.138
						2.0 dBi at 0.148
	COLINEAR			002	3.0	5.5 dBi at 0.138
						5.5 dBi at 0.148
	QFH			003	1.6	0.0 dBi at 0.138
						0.0 dBi at 0.148
	YAGI			004	1.7	11.0 dBi at 0.138
						11.0 dBi at 0.148
	W1/4			005	0.55	2.0 dBi at 0.138
						2.0 dBi at 0.148

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level
 (meters)	E36. Above Sea Level
 (meters)	E37. Building Height Above Ground Level
 (meters)	E38. Total Input Power at antenna flange
 (Watts)	E39. Maximum Antenna Height Above Rooftop
 (meters)	E40. Total EIRP for all carriers
 (dBW)
W1/2	0.0/0.0	7.1	81.1	6.0	10.0	1.1	12.0
COLINEAR	0.0/0.0	9.0	83.0	6.0	10.0	3.0	15.5
QFH	0.0/0.0	7.6	81.6	6.0	10.0	1.6	10.0
YAGI	0.0/0.0	7.7	81.7	6.0	10.0	1.7	21.0
W1/4	0.0/0.0	6.6	80.6	6.0	10.0	0.6	12.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
W1/2	137 138	R	Vertical	125KF1D	0.0	0.0
<p>E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)</p> <div style="border: 1px solid black; padding: 5px; min-height: 100px;"> <p>FSK / data (non-voice)</p> </div>						
W1/2	137 138	R	Vertical	7K80F1D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
FSK / data (non-voice)							
W1/2	148	149.95	T	Vertical	250KF1D	12.0	-6.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
FSK / data (non-voice)							
W1/2	148	149.95	T	Vertical	7K80F1D	12.0	9.1
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
FSK / data (non-voice)							
COLINEAR	137	138	R	Vertical	125KF1D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

FSK / data (non-voice)

COLINEAR	137	138	R	Vertical	7K80F1D	0.0	0.0
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

FSK / data (non-voice)

COLINEAR	148	149.95	T	Vertical	250KF1D	15.5	-2.5
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

FSK / data (non-voice)

COLINEAR	148	149.95	T	Vertical	7K80F1D	15.5	12.6
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
FSK / data (non-voice)							
QFH	137	138	R	Left Hand Circular	125KF1D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
FSK / data (non-voice)							
QFH	137	138	R	Left Hand Circular	7K80F1D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
FSK / data (non-voice)							
QFH	148	149.95	T	Left Hand Circular	250KF1D	10.0	-8.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

FSK / data (non-voice)

QFH	148	149.95	T	Left Hand Circular	7K80F1D	10.0	7.1
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

FSK / data (non-voice)

YAGI	137	138	R	Vertical	125KF1D	0.0	0.0
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

FSK / data (non-voice)

YAGI	137	138	R	Vertical	7K80F1D	0.0	0.0
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

FSK / data (non-voice)

YAGI	148	149.95	T	Vertical	250KF1D	21.0	3.0
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

FSK / data (non-voice)

YAGI	148	149.95	T	Vertical	7K80F1D	21.0	18.1
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

FSK / data (non-voice)

W1/4	137	138	R	Vertical	125KF1D	0.0	0.0
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E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
FSK / data (non-voice)							
W1/4	137	138	R	Vertical	7K80F1D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
FSK / data (non-voice)							
W1/4	148	149.95	T	Vertical	250KF1D	12.0	-6.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
FSK / data (non-voice)							
W1/4	148	149.95	T	Vertical	7K80F1D	12.0	9.1

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

FSK / data (non-voice)

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
W1/2	Non-Geostationary	137 138	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Non-Geostationary	148 149.95	0.0/ 0.0	0.0	5.0	0.0	5.0	-39.9
COLINEAR	Non-Geostationary	137 138	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Non-Geostationary	148 149.95	0.0/ 0.0	0.0	5.0	0.0	5.0	-44.9
QFH	Non-Geostationary	137 138	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0

	Non-Geostationary	148 149.95	0.0/ 0.0	0.0	5.0	0.0	5.0	-35.9
YAGI	Non-Geostationary	137 138	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Non-Geostationary	148 149.95	0.0/ 0.0	0.0	5.0	0.0	5.0	-47.9
W1/4	Non-Geostationary	137 138	0.0/ 0.0	0.0	5.0	0.0	5.0	0.0
	Non-Geostationary	148 149.95	0.0/ 0.0	0.0	5.0	0.0	5.0	-39.9

REMOTE CONTROL POINT LOCATION

E61. Call Sign E190610 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.		E65. Phone Number 608-225-3173	
E62. Street Address 435 N Whisman Road Ste. 100			
E63. City Mountain View	E67. County Santa Clara		E64/68. State/Country CA/ USA
			E66. Zip Code 94043

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