Approved by OMB 3060-0678

Date & Time Filed: File Number: ---Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	FCC Use Only
APPLICANT INFORMATION	
Enter a description of this application to identify it on the main menu:	
Swarm Sussex NJ Gateway Earth Station Application	

1	11	•
Swarm Sussex NJ	Gateway Earth Station	Application

1-8. Legal N	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

i	
17. Choose the button next to the	b.
classification that applies to this filing for	b1. Application for License of New Station
both questions a. and b. Choose only one for 17a and only one for 17b.	b2. Application for Registration of New Domestic Receive-Only Station
	(N/A) b3. Amendment to a Pending Application
a.	(N/A) b4. Modification of License or Registration
al. Earth Station	(N/A) b5. Assignment of License or Registration (N/A) b6. Transfer of Control of License or Registration
(N/A) a2. Space Station	(N/A) b0. Transfer of Control of License of 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
	b10. Other (Please specify)
	 b10. Other (Frease specify) 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.
17c. Is a fee submitted with this applicatio	n?
If Yes, complete and attach FCC Form	n 159.
If No, indicate reason for fee exemption (s	
Governmental Entity Noncomme	rcial educational licensee
Other(please explain):	

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17d.		
Fee Classification BAX - Fixed S	atellite Transmit/Receive Eartl	1 Station
18. If this filing is in reference to an	19. If this filing is an amendment to	a pending application enter:
existing station, enter:	(a) Date pending application was fi	
(a) Call sign of station:		
Not Applicable	Not Applicable	Not Applicable
	TYPE OF SERV	
20. NATURE OF SERVICE: This filing is	for an authorization to provide or use	e the following type(s) of service(s): Select all that apply:
a. Fixed Satellite		
 ■ a. Fixed Satellite ✓ b. Mobile Satellite 		
c. Radiodetermination Satellite		
d. Earth Exploration Satellite		
e. Direct to Home Fixed Satellite		
f. Digital Audio Radio Service		
g. Other (please specify)		
21. STATUS: Choose the button next to th		arth station applicant, check all that apply.
only one.		ing U.S. licensed satellites
Common Carrier Non-Common		ing Non-U.S. licensed satellites
23. If applicant is providing INTERNATIC these facilities:	NAL COMMON CARRIER service	see instructions regarding Sec. 214 filings. Choose one. Are
Connected to a Public Switched Netw	ork \bigcirc Not connected to a Public S	witched Network 🔎 N/A
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 low Frequency Lower: 137.00 Frequency Upper		
	TYPE OF STATI	ON
25. CLASS OF STATION: Choose the but	ton next to the class of station that ap	plies. 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 FACILI	-	
Transmit/Receive Transmit-Only		
	PURPOSE OF MODIF	
27. The purpose of this proposed modification	tion is to: (Place an 'X' in the box(es)) next to all that apply.)
Not Applicable		
I	ENVIRONMENTAL	POLICY
28. Would a Commission grant of any pro		-
environmental impact as defined by 47 Cl 1.1308 and 1.1311 of the Commission's ru		
application. <u>A Radiation Hazard Study mu</u>		

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.

29. Is the applicant a foreign government or the representative of any foreign government?

modifications, or major amendments.

🔍 Yes 💿 No

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30. Is the applicant an alien or the representative of an alien?	○ Yes ○ No ● N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	○ Yes ○ No ● N/A
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?	○ Yes ○ No ● N/A
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.	Ves 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 explination of circumstances.	• Yes • No
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 explination of circumstances.	Ves No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attemptiing 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 exhinit, an explanation of the circumstances.	Ves 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. <i>See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.</i>	• 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 <i>47 C.F.R. 25.137, as appropriate</i> . If No, proceed to question 43.	Ves No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issu coordinated or is in the process of coordinating the space station?	ed, what administration has
43. Description. (Summarize the nature of the application and the services to be provided). Swarm seeks auth gateway earth station located in Sussex, NJ to communicate with its non-geostationary, non-service system.	
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.	◎в

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⊂ C

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.

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.

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): (C	hoose the button next to	applicable response.)			
 Individual Unincorporated Ass 	agistian					
Partnership	ociation					
 Corporation 						
Governmental Entity	V					
Other (please specif	ý)					
45. Name of Person Sign	ina		46. Title of Person Si	anina		
Dr. Sara Spangelo	ing		CEO	gning		
47. Please supply any need	d attachments					
Attachment 1:	1	ttachment 2:		Attachment 3:		
<u> </u>						
				BY FINE AND / OR IMI STATION AUTHORIZAT		
		· · ·		Code, Title 47, Section 50		
	SATELLITE	EARTH STAT	TION AUTHO	RIZATIONS		
FCC				rational Descripti	on)	
ree	1°01 m 512 - Sen		incar and Ope	ational Descripti	011)	
		FOR OFFICIA	L USE ONLY			
Location of Earth Station			C 11 C'			
E1: Site Identifier:	Sussex NJ Gatew	2	. Call Sign:	(00 225 2172		
E2: Contact Name	Benjamin Longn 11 Edsall Drive		. Phone Number:	608-225-3173		
E3. Street:	11 Edsall Drive		. City:	Sussex		
E4 State	NI		. County:	Sussex		
E4. State	NJ		. Zip Code	07462		
E10. Area of Operation:	41 0 00 1 7 7 11 N I	51	issex, NJ			
E11. Latitude:	41 ° 23 ' 7.7 " N	V				
E12. Longitude:	74 ° 31 ' 37.9 " V		NAD 07			
E13. Lat/Lon Coordinates			NAD-27	• NAD-83	○ N/A	
E14. Site Elevation (AMS	SL):	22	8.0 meters			
E15. If the proposed anten the proposed antenna(s) co					○ No	

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	y the manufactur h two-degree spa	*	tion measure	ement? I	f NO, p	rovide asa techi	nical analysis show	ing	
E16. If the prop Satellite Service gain patterns sp measurements?		No N/A							
E17. Is the facil point.	ity operated by 1	emote contro	ol? If YES, pi	rovide tl	he locati	ion and telepho	ne number of the co	ontrol • Yes	No
E18. Is frequ	ency coordin	ation requi	red? If YE	ES, atta	ich a fi	requency coo	ordination repor	t as Ves	• No
	lination with and plot of co		• 1		f YES	, attach the r	name of the	• Yes	No
notification or the FAA' FAILURE 1	is required, l s study rega	have you a rding the p 7 WITH 4	ittached a ootential h 7 CFR PA	copy azard	of a co of the	ompleted FC e structure t	I3(c)) Where FA CC Form 854 a o aviation? RESULT IN T	nd Ves	No
POINTS OF CO	OMMUNICATI	ION						18	
			f you seled	cted O			r the following:		
E21. Commo	on Name: Sw	arm 1			E22.	ITU Name:	USASAT-NGSO)-7	
	ocation: NGS				E24.	Country: US	SA		
POINTS OF CO		-							
	ntifier: Susse	x NJ Gatev	way						
E26. Commo	on Name:						E27. Cot	intry:USA	
ANTENNA									
						E22			
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufact		E31. Model	E32. Antenna Size	E41/42. Anter Recieve(_	na GainTransm dBi at	int and/or GHz)
Site ID		Quantity		turer		Antenna Size		dBi at	
Site ID Sussex NJ	Antenna Id	Quantity	Manufact	turer	Model	Antenna Size	Recieve(_	dBi at	
Site ID Sussex NJ Gateway	Antenna Id	Quantity	Manufact	turer	Model	Antenna Size	Recieve(_ 2.0 dBi at 0.138	dBi at	
Site ID Sussex NJ Gateway	Antenna Id W1/2	Quantity	Manufact	turer	Model 001	Antenna Size	Recieve(_ 2.0 dBi at 0.138 2.0 dBi at 0.148	dBi at3	
Site ID Sussex NJ Gateway	Antenna Id W1/2	Quantity	Manufact		Model 001	Antenna Size	Recieve(_ 2.0 dBi at 0.138 2.0 dBi at 0.148 5.5 dBi at 0.138	dBi at	
Site ID Sussex NJ Gateway	Antenna Id W1/2 COLINEAR	Quantity	Manufact		Model 001 002	Antenna Size 1.1 3.0 1.6	Recieve(_ 2.0 dBi at 0.138 2.0 dBi at 0.148 5.5 dBi at 0.138 5.5 dBi at 0.148	dBi at 3 3 3 3 3 3	
Site ID Sussex NJ Gateway	Antenna Id W1/2 COLINEAR	Quantity	Manufact		Model 001 002	Antenna Size 1.1 3.0 1.6	Recieve(_ 2.0 dBi at 0.138 2.0 dBi at 0.148 5.5 dBi at 0.138 5.5 dBi at 0.138 0.0 dBi at 0.138	dBi at 3 3 3 3 3 3 3 3 3	
Site ID Sussex NJ Gateway	Antenna Id W1/2 COLINEAR QFH	Quantity	Manufact		Model 001 002 003	Antenna Size 1.1 3.0 1.6	Recieve(_ 2.0 dBi at 0.138 2.0 dBi at 0.148 5.5 dBi at 0.138 5.5 dBi at 0.148 0.0 dBi at 0.148 0.0 dBi at 0.148	dBi at 3 3 3 3 3 3 3 3 3 3 8 3 8	
Site ID Sussex NJ Gateway	Antenna Id W1/2 COLINEAR QFH	Quantity	Manufact		Model 001 002 003	Antenna Size 1.1 3.0 1.6 1.7	Recieve(dBi at 3 3 3 3 3 3 3 3 4 8 4 8	
Site ID Sussex NJ Gateway	Antenna Id W1/2 COLINEAR QFH YAGI	Quantity	Manufact		Model 001 002 003 004	Antenna Size 1.1 3.0 1.6 1.7	Recieve(2.0 dBi at 0.138 2.0 dBi at 0.148 5.5 dBi at 0.138 5.5 dBi at 0.138 0.0 dBi at 0.138 0.0 dBi at 0.148 11.0 dBi at 0.148	dBi at 3 3 3 3 3 3 3 3 3 4 8 3 3 4 8 3 3 4 8 3 3 4 8 3 3 8 4 8 3 8 4 8 3 8 4 8 8 8 8	
Site ID Sussex NJ Gateway	Antenna Id W1/2 COLINEAR QFH YAGI	Quantity 1	Manufact	turer	Model 001 002 003 004 005 5. E3 ve H6 el	Antenna Size 1.1 3.0 1.6 1.7	Recieve(dBi at 3 3 3 3 3 3 3 3 3 4 8 3 3 4 8 3 3 4 8 3 3 4 8 3 3 8 4 8 3 8 4 8 3 8 4 8 8 8 8	
Site ID Sussex NJ Gateway	Antenna Id W1/2 COLINEAR QFH YAGI W1/4 E33/34. D	Quantity 1	Manufact Swarm E35. Above Ground Level	turer	Model 001 002 003 004 005 5. E3 ve H6 el	Antenna Size 1.1 3.0 3.0 1.6 1.7 0.55 37. Building eight Above Ground Level (meters)	Recieve(dBi at	GHz) E40. Total EIRP for al carriers
Site ID Sussex NJ Gateway	Antenna Id W1/2 COLINEAR QFH YAGI W1/4 E33/34. D Minor/Majo	Quantity 1	Manufact Swarm E35. Above Ground Level (meters)	turer	Model 001 002 003 004 005 5. E3 004 005 005 004 005 005 004 005 005 005	Antenna Size 1.1 3.0 1.6 1.6 1.7 0.55 37. Building eight Above Ground Level (meters)	Recieve(dBi at	GHz) E40. Total EIRP for al carriers (dBW)

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REQUENCY	0.0/0.0		1		A1	
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 ERII Density per Carrier(dBW/4kHz)
W1/2	137 138	R	Vertical	125KF1D	0.0	0.0
E50. Modula	tion and Service	s FSK /	data (non-voice)			
W1/2	137 138	R	Vertical	7K80F1D	0.0	0.0
E50. Modula	tion and Service	s FSK /	data (non-voice)			
W1/2	148 149.95	Т	Vertical	250KF1D	12.0	-6.0
E50. Modula	tion and Service	s FSK /	data (non-voice)			
W1/2	148 149.95	Т	Vertical	7K80F1D	12.0	9.1
E50. Modula	tion and Service	s FSK /	data (non-voice)			
COLINEAR	137 138	R	Vertical	125KF1D	0.0	0.0
E50. Modula	tion and Service	s FSK /	data (non-voice)			
COLINEAR	137 138	R	Vertical	7K80F1D	0.0	0.0
E50. Modula	tion and Service	s FSK /	data (non-voice)			
COLINEAR	148 149.95	Т	Vertical	250KF1D	15.5	-2.5
E50. Modula	tion and Service	s FSK /	data (non-voice)			·
COLINEAR	148 149.95	Т	Vertical	7K80F1D	15.5	12.6
E50. Modula	tion and Service	s FSK /	data (non-voice)	<u>.</u>		
QFH	137 138	R	Left Hand Circular	125KF1D	0.0	0.0
E50. Modula	tion and Service	s FSK /	data (non-voice)	·	·	
QFH	137 138	R	Left Hand Circular	7K80F1D	0.0	0.0
E50. Modula	tion and Service	s FSK /	data (non-voice)	·	·	·
QFH	148 149.95	Т	Left Hand Circular	250KF1D	10.0	-8.0
E50. Modula	tion and Service	s FSK /	data (non-voice)			·
QFH	148 149.95	Т	Left Hand Circular	7K80F1D	10.0	7.1
E50. Modula	tion and Service	s FSK /	data (non-voice)		·	·
YAGI	137 138	R	Vertical	125KF1D	0.0	0.0
E50. Modula	tion and Service	s FSK /	data (non-voice)			
YAGI	137 138	R	Vertical	7K80F1D	0.0	0.0
E50. Modula	tion and Service	s FSK /	data (non-voice)			
YAGI	148 149.95	Т	Vertical	250KF1D	21.0	3.0
E50. Modula	tion and Service	s FSK /	data (non-voice)	·	·	
YAGI	148 149.95	Т	Vertical	7K80F1D	21.0	18.1
E50. Modula	tion and Service	s FSK /	data (non-voice)			
W1/4	137 138	R	Vertical	125KF1D	0.0	0.0
E50. Modula	tion and Service	s FSK /	data (non-voice)			
W1/4	137 138	R	Vertical	7K80F1D	0.0	0.0
E50. Modula	tion and Service	s FSK /	data (non-voice)			
W1/4	148 149.95	Т	Vertical	250KF1D	12.0	-6.0
E50. Modula	tion and Service	s FSK /	data (non-voice)			
W1/4	148 149.95	Т	Vertical	7K80F1D	12.0	9.1

E50. Modulation and Services 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	Angle Wostorn	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

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

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 0.25 - 24 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.