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APPLICATION FOR SATELLITE SPACE STATION AUTHORIZATIONS	FCC Use Only
FCC 312 MAIN FORM	·
FOR OFFICIAL USE ONLY	

APPLICANT INFORMATION

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

Peregrine Mission 1 Lunar Lander

Telegrine Wission I Bund Bander				
1–8. Legal Name of Applicant				
Name:	Astrobotic Technology, Inc	Phone Number:	412–682–3282	
DBA Name:		Fax Number:		
Street:	1016 N. Lincoln Avenue	E–Mail:	eduardo.lugo@astrobotic.com	
City:	Pittsburgh	State:	PA	
Country:	USA	Zipcode:	15233 –	
Attention:	Eduardo Lugo Perez			
	Name of Ap Name: DBA Name: Street: City:	Name of Applicant Name: Astrobotic Technology, Inc DBA Name: Street: 1016 N. Lincoln Avenue City: Pittsburgh Country: USA	Name of Applicant Name: Astrobotic Technology, Inc Phone Number: DBA Name: Fax Number: Street: 1016 N. Lincoln Avenue E-Mail: City: Pittsburgh State: Country: USA Zipcode:	

9-16. Name of Contact Representative

Name: Eduardo Lugo Perez Phone Number: 412–682–3282

Company: Astrobotic Fax Number:

Street: 1016 N. Lincoln Avenue E–Mail: eduardo.lugo@astrobotic.com

eduardo.lugo@astrobotic.com

City: Pittsburgh State: PA

Country: USA Zipcode: 15233 -

Attention: Eduardo Lugo Perez Relationship: Same

CLASSIFICATION OF FILING

17. Choose the buttonnext to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a.

(N/A) a1. Earth Station

a2. Space Station

b.

b1. Application for License of New Station

(N/A) 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

b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

b 10. Replacement Satellite Application – no new frequency bands

• b11. Replacement Satellite Application – new frequency bands (Not eligible for streamlined processing)

b12. Petition for Declaratory Ruling to be Added to the Permitted List

(N/A) b13. Other (Please specify)

17c. Is a fee submitted with this application? • If Yes, complete and attach FCC Form 159.			
If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).			
Governmental Entity Noncommercial educational licensee			
Other(please explain):			
17c. Fee Classification CLW – Space Station (Non–Geostationary)			
18. If this filing is in reference to an existing station, enter: (a) Call sign of station: Not Applicable			
19. If this filing is an amendment to a pending application enter:			
(a) Date pending application was filed:	(b) File number of pending application:		
Not Applicable	Not Applicable		

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	e or use the following type(s) of service(s): Select all that apply:		
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) Unmanned Lunar Lander			
21. STATUS: Choose thebutton next to the applicable status. Choose	22. If earth station applicant, check all that apply.		
only one. Common Carrier Non–Common Carrier	Not Applicable		
23. If applicant is providing INTERNATIONAL COMMON CARRIER's	ervice see instructions regarding Sec. 214 filings. Choose one Are these		
facilities:	ervice, see instituctions regulating see. 214 mings. Choose one.7 the these		
Connected to a Public Switched Network Not connected	to a Public Switched Network N/A		
24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all a	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: 8487.31494 Frequency Upper: 8497	(Please specify additional frequencies in an attachment)		

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies.	Choose only one.
(N/A) a. Fixed Earth Station (N/A) b. Temporary–Fixed Earth Station (N/A) c. 12/14 GHz VSAT Network (N/A) d. Mobile Earth Station	
e. Geostationary Space Station.	
f. Non–Geostationary Space Station g. Other (please specify)	
Unmanned Lunar Lander	
26. TYPE OF EARTH STATION FACILITY: Not Applicable	
DUDDOSE OF MODIFICATION	

PURPOSE OF MODIFICATION

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

ENVIRONMENTAL POLICY

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.



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?	O Yes	⊚ No	
30. Is the applicant an alien or the representative of an alien?	O Yes	⊚ No	O N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	⊚ No	O 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	O 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	O 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	0	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.	0	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.	0	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	0	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.	0	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	O 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.	O 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.)

Astrobotic's Peregrine Mission 1 will deliver government and commercial science payloads and instruments to the surface of the Moon. Peregrine will be delivered to a trans lunar injection orbit on a ULA Vulcan launch vehicle. Once separated from the Vulcan Centaur upper stage, Peregrine's trajectory will include one elliptical loop around the Earth

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.	O 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.	O 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 butto	on next to applicable respons	e.)		
 Individual Unincorporated Association Partnership Corporation Governmental Entity Other (please specify) 				
45. Name of Person Signing Eduardo Lugo Perez		46. Title of Person Signing RF Communications Lead Engineer.		
47. Please supply any need attachments.				
1:	2:	3:		
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).				

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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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.

43. Description. (Summarize the nature of the application and the services to be provided).

Astrobotic's Peregrine Mission 1 will deliver government and commercial science payloads and instruments to the surface of the Moon. Peregrine will be delivered to a trans lunar injection orbit on a ULA Vulcan launch vehicle. Once separated from the Vulcan Centaur upper stage, Peregrine's trajectory will include one elliptical loop around the Earth before intersecting the lunar orbit. After the initial highly elliptical lunar capture orbit, Peregrine will enter a lower elliptical orbit where subsystem checkouts will occur. The last orbit is a 100 km circular orbit in preparation for landing. The landing site on the Moon is in the Lacus Mortis basin and the landing coordinates are 43.85 Deg. North and 25.17 Deg. East. Peregrine's X-Band communication system will be supported during all phases of the mission by NASA's Deep Space Network (DSN). DSN will receive Telecommands from Astrobotic's Mission Control Center and deliver them to Peregrine along with ranging information using an X-Band uplink. DSN will receive Telemetry and ranging signals from Peregrine's X-Band transmitter. Peregrine's mission will last a minimum of 17days and a maximum of 78 days from launch date depending on the timing of the launch. After landing on the Moon, Peregrine will begin its surface operations phase, providing the payloads with power/communications services for attached payloads and communications services for deployed payloads. Peregrine is designed to provide the services for one lunar day, after which time the spacecraft will shut down and arrive at End of Mission(EOM).