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Callsign:

FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY

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APPLICANT INFORMATION

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

Peregrine Mission 1 Lunar Lander

1. 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:	Mr. Eduardo Lugo Perez		

2. Contact	
Name:	Eduardo Lugo Perez
Company:	Astrobotic Technology, Inc
Street:	1016 N. Lincoln Avenue
	eduardo.lugo@astrobotic.com
City:	Pittsburgh
Country:	USA
Attention:	
Phone Number:	412-682-3282
Fax Number:	
E-Mail:	eduardo.lugo@astrobotic.com
State:	PA
Zipcode:	15233 -
Relationship:	Same
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)	
3. Reference File Number or Submission ID	
4a. Is a fee submitted with this application?	
<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).	
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input type="radio"/> Other (please explain):	
4b. Fee Classification CXW - Space Station (Non-Geostationary)	
5. Type Request	
<input type="radio"/> Change Station Location <input type="radio"/> Extend Expiration Date <input checked="" type="radio"/> Other	
6. Temporary Orbit Location Cislunar, variable.	7. Requested Extended Expiration Date

8. Description (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-Centaur launch vehicle. Once separated from the Vulcan-Centaur upper stage, Peregrine's trajectory will include one elliptical loop around the

9. 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

10. Name of Person Signing
Eduardo Lugo Perez

11. Title of Person Signing
Lead RF Communications Engineer.

12. Please supply any need attachments.

Attachment 1: ODAR

Attachment 2: Annex 1

Attachment 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).

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8. Description

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-Centaur 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 43.91 Deg. North and 25.14 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 up to 57 days from launch date depending on arrival of the Moon. After landing on the Moon, Peregrine will begin its surface operations phase, providing the payloads with power and 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).