S2912

SAT-MOD-20150802-00053

Planet Labs Inc. FLOCK

IB2015001437

FILE # SAT-MOD-20150802-00053 Call Sign 52912 Grant Date 09/15/16 (or other identifier)

From 09/15/16

Approved:

conditions

Approved by OMB 3060-0678

Date & Time Filed: Aug 2 2015 1:43:58:963PM

File Number: SAT-MOD-20150802-00053

International Bureau \*with conditions

GRANTED\*

Chief, Satellite Policy Branch

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM

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:

Flock Mod 3

1-8. Legal Name of Applicant

Name:

Planet Labs Inc.

Phone Number:

415-829-3313

DBA

Fax Number:

415-534-8992

Name: Street:

346 9th St.

E-Mail:

mike@planet.com

City:

San Francisco

State:

CA

Country:

USA

Zipcode:

94103

Attention: Michael Safyan

Planet Labs Inc. IBFS File No. SAT-MOD-20150802-00053

| IBFS File No(s):   | SAT-MOD-20150802-00053  | GRANT -  |
|--------------------|---|--|
| Licensee/Grantee:  | Planet Labs Inc.  | With Conditions  |
| Call Sign:         | S2912   |  |
| Satellite Name:    | Flock   | COMMUNICAL COMUNICAL COMMUNICAL C |
| Orbital Location:  | NGSO at altitudes between 350 km and 720 km (see  |  |
| (required station- | scope of grant below)   | TO A TO A ST   |
| keeping tolerance) |   | COMMISSION   |
| Administration:    | United States of America  |  |
| Nature of Service: | Earth Exploration Satellite Service   | International Bureau Satellite Division  |
| Scope of Grant:    | <ul> <li>Authority to construct, deploy, and operate a constellation identical non-geostationary satellites as follows:<sup>1</sup></li> <li>12 Flock 2p satellites deployed at 505 km with an PSLV launch vehicle;<sup>2</sup></li> <li>532 satellites initially deployed to orbital apogee kilometers;</li> <li>56 satellites to be launched via a Falcon-9 launch SHERPA/Formasat-5 mission for deployment into</li> </ul> | n inclination of 97.51° by the altitudes of no greater than 660 a vehicle as part of the   |
| Service Area(s):   | Global. See Schedule S Tech Report at Item S6   |  |
| Frequencies:       | 8025-8400 (space-to-Earth) (remote sensing data)  Telemetry, Tracking, and Command frequencies: 2025-2110 MHz (Earth-to-space) (command) 8025-8400 (space-to-Earth) (telemetry) 401-402 MHz (space-to-Earth) and 449.75-450.25 MHz (emergency-backup, as well as ranging and orbit determin   |  |

Operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with Federal Communication Commission's rules not waived herein. This grant is also subject to the following conditions:

1. Planet Labs must prepare the necessary information, as may be required, for submission to the International Telecommunication Union (ITU) to initiate and complete the advance publication, coordination, due

<sup>&</sup>lt;sup>1</sup> The 600 satellites are in addition to 55 satellites launched prior to June 15, 2016, and that have been deployed and are operational. *See* IBFS File Nos. SAT-LOA-20130626-00087 (granted December 3, 2013), SAT-MOD-20140321-00032 (granted June 18, 2014), and SAT-MOD-20140912-00100 (granted October 23, 2014). Specifically, these satellites consist of 5 satellites that were deployed to a circular orbit at an initial altitude of 620 km (Flock 1c), 6 satellites deployed from the ISS (Flock 1e), 10 satellites deployed from the ISS (Flock 2b), and 24 satellites deployed from the ISS (Flocks 2e and 2e'). In addition, 8 Flock 2e' satellites were deployed from the ISS on September 14, 2016. Planet Labs Annual Report, filed June 29, 2016; Letter from Mike Safyan, Director of Launch and Regulatory Affairs, Planet Labs, to Marlene H. Dortch, Secretary, FCC, dated Sept. 15, 2016.

<sup>&</sup>lt;sup>2</sup> See IBFS File No. SAT-MOD-20150802-00053 (granted in part, deferred in part June 15, 2016). Planet Labs notified the Commission that these satellites were successfully deployed on June 22, 2016. Letter from Mike Safyan, Director of Launch and Regulatory Affairs, Planet Labs, to Marlene H. Dortch, Secretary, FCC (dated June 22, 2016).

Planet Labs Inc. IBFS File No. SAT-MOD-20150802-00053

diligence, and notification process for these space stations, in accordance with the ITU Radio Regulations. Planet Labs shall be held responsible for all cost-recovery fees associated with ITU filings. No protection from interference caused by radio stations authorized by other administrations is guaranteed unless coordination and notification procedures are timely completed or, with respect to individual administrations, by successfully completing coordination agreements. Any radio station authorization for which coordination has not been completed may be subject to additional terms and conditions as required to effect coordination with the frequency assignments of other administrations. See 47 CFR § 25.111(b).

- 2. Planet Labs must take all steps within its control to ensure that the launch provider, SpaceX, and the SHERPA operator, SpaceFlight Inc., abort the separation of the SHERPA deployer from the SpaceX Falcon 9 launch vehicle in the event that a SpaceX Formosat-5 launch mission anomaly precludes lowering the Falcon 9 second stage from the Formosat-5 720 km circular release orbit to the specified 450 x720 km SHERPA release orbit.
- 3. Upon receipt of a conjunction warning from the JSpOC or other source, Planet Labs must review the warning and take all possible steps to assess and, if necessary, to mitigate collision risk, including, but not limited to: contacting the operator of any active spacecraft involved in such warning; sharing ephemeris data and other appropriate operational information with any such operator; modifying spacecraft attitude and/or operations.<sup>3</sup>
  - 4. The number of simultaneously operational satellites must not exceed 200.
- 5. No more than 120 satellites may be deployed to orbits that exceed an apogee altitude of 500 kilometers.
- 6. Deployment into an orbit with an inclination of 51.6 degrees, plus or minus 0.1 degree, at an altitude above the ISS, is not authorized by this grant.
- 7. Planet Labs shall tune TT&C UHF links to an agreed frequency range with NOAA as soon as possible to minimize interference to NOAA GOES Data Collection System (DCS), and radiosonde operations and continue to work closely with NOAA to identify and implement any further measures needed to avoid RFI to the systems mentioned earlier. This initial tuning would be an interim frequency range for Planet Labs to use for upcoming launches. For future mission planning, transition out of 401-406 MHz to avoid interference to DCS and radiosondes is recommended. Planet Labs and NOAA shall work jointly to explore future mitigation strategies to avoid interference to NOAA missions.
- 8. Transmissions of remote-sensing and telemetry data in the 8025-8400 MHz frequency band may only be made to and when within line of sight of the following earth stations:

<sup>&</sup>lt;sup>3</sup> ORBCOMM License Corp. (ORBCOMM) filed a Petition to Dismiss, Deny or Hold in Abeyance certain portions of the Planet Labs application on February 22, 2016. ORBCOMM objected to Planet Labs' proposed operations using altitudes and orbital planes that would intersect with the authorized 47 degree-inclined 715 kilometer operational orbits for its ORBCOMM Generation 2 satellites. ORBCOMM Petition at 1. Planet Lab's application was granted in part on June 15, 2016, but Planet Labs' request to deploy at altitudes above 550 km was deferred. *See Policy Branch Information, Actions Taken*, Public Notice, DA 16-688, Report No. SAT-01168, June 17, 2016. On September 14, 2016, ORBCOMM withdrew its petition and notified that it had entered into an agreement with Planet Labs. With respect to any burdens on ORBCOMM from additional collision avoidance maneuvers involving Planet Labs satellites, we find that, based on the additional information provided by parties, the status of discussions between Planet Labs and ORBCOMM, and on the conditions placed on this authorization, we can proceed with grant of Planet Labs' request to deploy 56 satellites as part of the SHERPA/Formasat-5 mission. With respect to burdens on ORBCOMM potentially resulting from any collisions among the multiple satellites that are planned to be deployed from the SHERPA deployer, that issue will be addressed in a separate action on the pending application for the SHERPA mission, IBFS File No. SAT-STA-20150821-00060, and this grant is without prejudice to any determination on the pending SHERPA application.

Planet Labs Inc. IBFS File No. SAT-MOD-20150802-00053

| Location  |
|---|
| Maddock, ND (see condition 9 of this grant)       |
| Brewster, WA                                      |
| Goonhilly, United Kingdom                         |
| Chilbolton, United Kingdom                        |
| Awarua, New Zealand                               |
| Usingen, Germany                                  |
| Ningi, Australia                                  |
| Keflavik, Iceland (see condition 9 of this grant) |

Transmissions to other earth station locations in the 8025-8400 MHz frequency band requires modification of this license condition to include such additional earth stations.

- 9. Planet Labs is not authorized to use the Maddock, ND, and Keflavik, Iceland, earth stations with Planet Labs satellites launched after June 15, 2016, due to interference with operations of the LandSat satellites in the 8025-8400 MHz band until such time as a final agreement is reached on the necessary Memorandum of Agreement (MoA). Transmission to those earth stations will subsequently be subject to the terms and agreements of the MoA. The details (technical and otherwise) of such an arrangement need to be worked out between Planet Labs and three interested agencies (NASA, USGS, NOAA).
- 10. Power flux-density from operation in the 8025-8400 MHz band must not exceed the limits in No. 22.5 and Table 21-4 of the International Telecommunication Union's Radio Regulations, the limits/protection criteria in Recommendation ITU-R SA.1157-1 must be met, and the guidelines in Recommendation ITU-R SA.1810 must be followed.
- 11. Operations pursuant to this authorization must not cause harmful interference to stations operating in the 2025-2110 MHz band in accordance with the U.S. Table of Frequency Allocations. *See* 47 CFR § 2.106, Footnote US347.
- 12. Given the opportunity for additional entrants to operate in the 8025-8400 MHz band, we grant Planet Lab's request for waiver of the modified processing round requirements of 47 CFR §§ 25.156 and 25.157. See DigitalGlobe, Inc., Order and Authorization, 20 FCC Red 15696 (Sat. Div., Int'l Bur. 2005), at paragraph 8.
- 13. Because Planet Labs must comply with technical requirements in Part 2 of the Commission's rules and the above-referenced power flux-density limits, which should prevent harmful interference to other operations in the band, we grant its request for a waiver of the default service rules in 47 CFR § 25.217(b). See DigitalGlobe, Inc., supra, at paragraph 15.
- 14. This authorization will become null and void if, at any time during the license term, none of the 600 satellites hereby authorized is operating. This authorization may be subject to additional conditions, or a reduction in the number of authorized satellites, in the event future deployment rates do not justify an authorization for 200 operational satellites.
- 15. Planet Labs has fulfilled milestone and bond obligations imposed as conditions to a previous grant of authority to operate up to 28 NGSO satellites in the 8025-8400 MHz band. See IBFS File No. SAT-

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MOD-20140321-00032 (grant stamp dated June 18, 2014). Because of the need for Planet Labs to continuously replenish its satellite constellation within the duration of its license term, we will not impose additional milestones or bond conditions in connection with this license modification. We find that warehousing concerns are addressed in this situation through the imposition of condition 14 above.

- 16. Within 30 days after deployment of each satellite pursuant to this authorization, Planet Labs must file a notification with the Commission specifying its apogee and perigee altitudes and orbital inclination.
- 17. The authority granted herein is subject to the existing license term for operation under S2912, which ends February 28, 2029.

Licensee/grantee is afforded thirty (30) days from the date of release of this action to decline the grant as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 CFR § 0.261, and is effective upon release.

Station licenses are subject to the conditions specified in Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. § 309(h).

| Action     | September 15, 2016       |                    |
|------------|--------------------------|--------------------|
| Date:      |                          |                    |
| Term Dates | From: September 15, 2016 | To: see conditions |
|            |                          |                    |

Approved:

Stephen J. Duall

Chief, Satellite Policy Branch

yphy) Quall

## 9–16. Name of Contact Representative

Name:

Michael Safyan

**Phone Number:** 

415-829-3313

Company: Planet Labs Inc.

Fax Number:

415-534-8992

Street:

346 9th St

E-Mail:

mike@planet.com

City:

San Francisco

State:

CA

Country:

**USA** 

Zipcode:

94103 -

Attention: Michael Safyan

Relationship:

Engineer

### **CLASSIFICATION OF FILING**

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.

- al. Earth Station
- a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

- 6 b3. Amendment to a Pending Application
- 6 b4. Modification of License or Registration
- b5. Assignment of License or Registration
- b6. Transfer of Control of License or Registration
- o 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

(N/A) b10. Other (Please specify)

(N/A) 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

(N/A) b12. Application for Database Entry

- o b13. Amendment to a Pending Database Entry Application
- o b14. Modification of Database Entry

| 17c. Is a fee submitted with this applicate.                      |  | n (200 47 C ED Section 1 1114)                       |  |  |  |
|---|--|--|--|--|--|
| <del>-</del>  | <ul> <li>If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).</li> <li>Governmental Entity</li> <li>Noncommercial educational licensee</li> </ul> |  |  |  |  |
| Other(please explain):  |  |  |  |  |  |
| 17d.  |  |  |  |  |  |
| Fee Classification CGW – Space Station Geostationary)             | Modification(Non-  |  |  |  |  |
| 18. If this filing is in reference to an existing station, enter: | 19. If this filing is an amendment to a pendin modification please enter only the file number  | g application enter both fields, if this filing is a |  |  |  |
| (a) Call sign of station:   | (a) Date pending application was filed:  | (b) File number:                                     |  |  |  |
| S2912   |  | SATMOD2014091200100                                  |  |  |  |
|   |  |  |  |  |  |

# TYPE OF SERVICE

| 20. NATURE OF SERVICE: This filing is for an authorization to provide  | le 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)  |   |
|  |   |
| 21. STATUS: Choose the button next to the applicable status. Choose    | 22. If earth station applicant, check all that apply.                       |
| only one.  | ■ Using U.S. licensed satellites  |
| ○ Common Carrier ○ Non-Common Carrier                                  | Using Non-U.S. licensed satellites  |
| 23. If applicant is providing INTERNATIONAL COMMON CARRIER facilities: | service, see instructions regarding Sec. 214 filings. Choose one. Are these |
| O 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: 401 Frequency Upper: 8400                             | (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. |
|---|
| o a. Fixed Earth Station  |
| o b. Temporary-Fixed Earth Station  |
| o c. 12/14 GHz VSAT Network   |
| o d. Mobile Earth Station   |
| o e. Geostationary Space Station  |
|   |
| og. Other (please specify)  |
|   |
| 26. TYPE OF EARTH STATION FACILITY:   |
| Transmit/Receive Transmit-Only Receive-Only N/A   |
| "For Space Station applications, select N/A."   |
|   |

# PURPOSE OF MODIFICATION

| 41   |      |
|--|------|
| 27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.) |      |
|  |      |
| a — authorization to add new emission designator and related service                                       |      |
| b — authorization to change emission designator and related service  |      |
| c — authorization to increase EIRP and EIRP density  | <br> |
| d — authorization to replace antenna   |      |
| e — authorization to add antenna   |      |
| f — authorization to relocate fixed station  |      |
| g — authorization to change frequency(ies)   |      |
| h — authorization to add frequency   |      |
| i — authorization to add Points of Communication (satellites & countries)                                  |      |
| j — authorization to change Points of Communication (satellites & mp; countries)                           |      |
| k — authorization for facilities for which environmental assessment and                                    |      |
| radiation hazard reporting is required   |      |
| 1 — authorization to change orbit location   |      |
| m — authorization to perform fleet management  |      |
| n — authorization to extend milestones   |      |
| o — Other (Please specify)   | :    |
|  |      |
|  |      |

## **ENVIRONMENTAL POLICY**

| С     | Yes   | •                    | No                            |               |                     |
|-------|-------|----------------------|-------------------------------|---------------|---------------------|
| autic | al en | rou                  | te or                         |               |                     |
| 0     | Yes   | •                    | No                            |               |                     |
| 0     | Yes   | •                    | No                            | 0             | N/A                 |
| 0     | Yes   | •                    | No                            | 0             | N/A                 |
| •     | Yes   | ٥                    | No                            | 0             | N/A                 |
|       | autic | autical en  Yes  Yes | autical en rou  Yes  Yes  Yes | Yes No Yes No | autical en route or |

| 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?       | 0 | Yes        | •   | No | O N/A       | <b>-</b> |
|--|---|------------|-----|----|-------------|----------|
| 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.   |   | <b>®</b> ` | Yes | c  | <b>)</b> 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 | •  | <b>)</b> 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.  | • Yes      | <b>⊚</b> 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  | O 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.   | O Yes      | <b>⊘</b> 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. | Exhibit 40 |             |

| 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. | <b>⊘</b> 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.  | <b>○</b> Yes  | <b>⊙</b> No |
| 42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, who coordinated or is in the process of coordinating the space station?   | hat administr | ation has   |

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.)

Planet Labs Inc. requests modification of its authorization to operate a NGSO EESS space station license, Call Sign S2912, to maintain up to 200 satellites in Low Earth orbit over the next 10 years, which requires launch authorization of up to 600 technically identical satellites over the 10 year duration. The primary orbit of the satellites will be 475 km

Exhibit 43

| 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.   |            |
|--|------------|
| 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. | <b>o</b> 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.)   |   |  |
|---|---|--|
| <ul> <li>Individual</li> <li>Unincorporated Association</li> <li>Partnership</li> <li>Corporation</li> <li>Governmental Entity</li> <li>Other (please specify)</li> </ul> |   |  |
| 45. Name of Person Signing Michael Safyan >   | 46. Title of Person Signing Director of Launch and Regulatory Affairs   |  |
| (U.S. Code, Title 18, Section   | DE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT in 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION 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).

Planet Labs Inc. requests modification of its authorization to operate a NGSO EESS space station license, Call Sign S2912, to maintain up to 200 satellites in Low Earth orbit over the next 10 years, which requires launch authorization of up to 600 technically identical satellites over the 10 year duration. The primary orbit of the satellites will be 475 km circular, SSO. See Exhibit 43 for additional information.