

S2862 SAT-STA-20170328-00056 IB2017000854
Terra Bella Technologies Inc.
SkySat1-7



*with conditions

File # SAT-STA-20170328-00056

Call Sign S2862 Grant Date 04/20/17
(or other identifier)

Term Dates period of
From 04/20/17 To: 60 days

Approved: *Stephen J. Duall*
Stephen J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678

Date & Time Filed: Mar 28 2017 6:50:57:753PM
File Number: SAT-STA-20170328-00056
Callsign:

FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY
FOR OFFICIAL USE ONLY

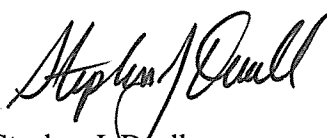
APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
Terra Bella additional earth stations STA

1. Applicant

Name:	Terra Bella Technologies Inc.	Phone Number:	720-238-5634
DBA Name:		Fax Number:	
Street:	1061 Terra Bella Avenue	E-Mail:	craig@terrabella.com
City:	Mountain View	State:	CA
Country:	USA	Zipcode:	94043
Attention:	Craig Scheffler		

ATTACHMENT TO GRANT
Terra Bella Technologies Inc.
IBFS File No. SAT-STA-20170328-00056

IBFS File No(s):	SAT-STA-20170328-00056	GRANTED – With Conditions  International Bureau Satellite Division			
Licensee/Grantee:	Terra Bella Technologies Inc.				
Call Sign:	S2862				
Satellite Name:	SkySat-1 through SkySat-7				
Orbital Location: (required station- keeping tolerance)	NGSO at altitudes between 400 km and 630 km				
Administration:	United States of America				
Nature of Service:	Earth Exploration Satellite Service				
Scope of Grant:	Special temporary authority for a period of 60 days to allow all satellites in the Terra Bella constellation to operate in the 8025-8400 MHz frequency band with the following ground stations: Inuvik NT, Canada; Svalbard, Norway; and Troll, Antarctica. ¹				
Service Area(s):	See Scope of Grant				
Frequencies:	8025-8400 (space-to-Earth) (remote sensing data)				
Unless otherwise specified herein, 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. 1. Terra Bella shall avoid interfering with existing space agency missions using the same ground stations by yielding priority to said missions when scheduling conflicts arise. 2. Operations under this STA shall be in accordance with the current signed MOA between Terra Bella, NASA, Department of Commerce (NOAA) and USAF					
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 Date:	April 20, 2017				
Term Dates	From: April 20, 2017	To: period of 60 days			
Approved:	 Stephen J. Duall Chief, Satellite Policy Branch				

¹ Condition 6 of the space station authorization for the Terra Bella constellation lists specific earth station locations to which the satellites are authorized to transmit in the 8025-8400 MHz frequency band. *See File No. SAT-MOD-20150408-00019.* The Inuvik, Svalbard, and Troll earth stations are not included in the list of Condition 6. This grant of STA authorizes transmissions to the Inuvik, Svalbard, and Troll earth stations on a temporary basis, but does not otherwise change the terms and limitations of Condition 6.

2. Contact	
Name: Stephanie Selmer Company: Google Inc. Street: 25 Massachusetts Avenue NW Ninth Floor City: Washington Country: USA Attention:	Phone Number: 202-346-1404 Fax Number: 202-346-1101 E-Mail: selmer@google.com State: DC Zipcode: 20001 - Relationship: Legal Counsel
(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? ☒ 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):	
4b. Fee Classification CXW – Space Station (Non-Geostationary)	
5. Type Request ☐ Change Station Location ☐ Extend Expiration Date ☒ Other	
6. Temporary Orbit Location	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.) Terra Bella requests 60-day temporary authority to communicate with three additional earth stations. See Exhibit A for more information.					
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 Camie Hackson	11. Title of Person Signing Engineering Director				
12. Please supply any need attachments. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;">Attachment 1: Exhibit A</td> <td style="width: 33%; padding: 5px;">Attachment 2:</td> <td style="width: 33%; padding: 5px;">Attachment 3:</td> </tr> </table>			Attachment 1: Exhibit A	Attachment 2:	Attachment 3:
Attachment 1: Exhibit A	Attachment 2:	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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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.

EXHIBIT A - NARRATIVE STATEMENT

Terra Bella Technologies Inc. (Terra Bella) hereby requests Special Temporary Authority (STA)¹ to transmit remote-sensing and telemetry data in the 8025-8400 MHz frequency band to additional earth stations not included in Condition 6 of Terra Bella's current authority to launch and operate a constellation of commercial remote sensing satellites (FCC Call Sign S2862).² At this time, Terra Bella is operating seven satellites, SkySat-1 through SkySat-7, under this authorization.

Condition 6 permits transmission of remote-sensing and telemetry data in the 8025-8400 MHz frequency band only to and when within the line of sight of earth stations in Fairbanks, Alaska, and Tromsø, Norway. On March 17, 2017, Terra Bella filed an application to modify the authorization for FCC Call Sign S2862 to include additional satellites.³ The modification application includes a request to modify Condition 6 permanently, so that it expressly permits space-to-earth downlink of remote-sensing and telemetry data in the 8025-8400 MHz band to all earth station locations approved for such transmissions under the Memorandum of Agreement between Terra Bella and the National Aeronautics and Space Administration (MOA), or any successor agreement.

Pending the requested grant of that modification request, Terra Bella hereby requests 60-day temporary authority to transmit remote-sensing and telemetry data in the 8025-8400 MHz frequency band to the following additional earth stations when within their line of sight:

- Inuvik NT, Canada (LLA: 68.32547, -133.60961, 33m)
- Svalbard, Norway (LLA: 78.22692, 15.41658, 498m)
- Troll, Antarctica (LLA: -72.01120, 2.55360, 1366m)

All three earth stations are approved for space-to-earth downlink of remote-sensing and telemetry data in the 8025-8400 MHz band under the MOA between Terra Bella and NASA, and would be used under the requested STA in compliance with the terms of that agreement.

The STA is sought for a period of 60 days commencing as soon as possible to accommodate immediate capacity needs.

Grant of this STA will serve the public interest by facilitating Terra Bella's operation of its seven high-resolution imagery satellites, which enhances competition and expands U.S. capabilities in the market for commercial remote sensing data. Terra Bella's innovative approach—using small, lightweight, and low-cost satellites—allows the company to meet the growing demand for high resolution imagery in a cost-effective, timely manner, and deployment of the proposed satellites will further enhance Terra Bella's EESS capabilities. Absent grant of the requested STA, Terra Bella will be unable to utilize the full capacity of its existing satellites to meet commercial demand.

¹ See 47 C.F.R. § 25.120(b)(3).

² See Stamp Grant, IBFS File No. SAT-MOD-20150408-00019 at Condition 6 (granted Aug. 31, 2016) (limiting transmissions in the 8025-8400 MHz band to certain ground stations).

³ See IBFS File No. SAT-MOD-20170317-00053.