SES-STA-20100709-00899 TerreStar License Inc.

> Approved by OMB 3060-0678

A STATION	SPECIAL	TEMPORARY	AUTHORITY

APPLICANT INFORMATIONEnter a description of this application to identify it on the main menu: Gateway station, Phase II IOT, extension to 09–30–2010 (June 2010)

1. Applicant

Name:

TerreStar License Inc.

Phone Number:

703-483-7800

DBA Name:

Fax Number:

Street:

12010 Sunset Hills Road

E-Mail:

doug.brandon@terrestar.com

City:

Reston

State:

GRANTED

VA

Country:

USA

Zipcode:

20190

Attention:

Mr Douglas I Brandon

With Condition
File # SESSTA-20100709-00899

Attachment

SES-STA-20100709-00899 E070098

Condition:

shall cease transmission(s) immediately upon notice of such interference. protection from, interference caused to it by any other lawfully operating station and it TerreStar License Inc. shall not cause harmful interference to, and shall not claim All operations shall be on an unprotected and non-harmful interference basis, i.e.,



2. Contact				
Name:	Joseph A. Godles, Esq	. Phone Number:	202-429-4900	
Compa	any: Goldberg Godles Wier	ner & Wright Fax Number:	202-429-4912	
Street:	1229 19th Street, NW	E–Mail:	jgodles@g2w2.com	
City:	Washington	State:	DC	
Count	ry: USA	Zipcode:	20036 -2413	
Attenti	ion:	Relationship:	Legal Counsel	
application. Please 3. Reference File 4a. Is a fee subs If Yes, complete Governmental Other(please of	e enter only one.) Number SESLIC2007053000 mitted with this application? ste and attach FCC Form 159. Entity • Noncommercial	732 or Submission ID If No, indicate reason for fee exemptic educational licensee	the file number or the IB Submission ID of the relation (see 47 C.F.R.Section 1.1114).	aieu
5. Type Request				
O Use Prior to Grant O Change Station Location O Other				
6. Requested Use 1 07/01/2010	Prior Date			
7. CityNorth Las Vegas		8. Latitude (dd mm ss.s h)	36 14 9.9 N	

9. State NV	10. Longitude (dd mm ss.s h) 115 7 1.3 W			
11. Please supply any need attachments.				
Attachment 1: STA extension Attachment 2:	Attachment 3:			
12. 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.)				
In accordance with the details of the attached exhibit, Applicant hereby requests a further extension, commencing July 1, 2010, of its Special Temporary Authority, in order to continue conducting Phase II in-orbit testing (IOT) of the TerreStar-1 satellite using its gateway earth station facility licensed under Call Sign E070098. Applicant requests				
13. 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.				
14. Name of Person Signing	15. Title of Person Signing			
Douglas I Brandon	General Counsel and Senior Vice President			
(U.S. Code, Title 18, Section 1001), AND/OR REV	ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT OCATION OF ANY STATION AUTHORIZATION FORFEITURE (U.S. Code, Title 47, Section 503).			

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12. Description

In accordance with the details of the attached exhibit, Applicant hereby requests a further extension, commencing July 1, 2010, of its Special Temporary Authority, in order to continue conducting Phase II in-orbit testing (IOT) of the TerreStar-1 satellite using its gateway earth station facility licensed under Call Sign E070098. Applicant requests that the STA be extended through and including September 30, 2010.

REQUEST FOR EXTENSION OF SPECIAL TEMPORARY AUTHORITY

TerreStar's active STAs for SBN-IOT will expire on June 30, 2010. Network – In-Orbit-Testing) of its Ground Based Beam Forming (GBBF) and other subsystems. 1 pursuant to STAs, TerreStar has been engaged in "Phase II" SBN-IOT (Satellite Beamforming conducted and successfully completed, pursuant to grants of Special Temporary Authority ("STA"), satellite payload In-Orbit-Testing (IOT) activity. Since the third quarter of 2009, also Following the successful launch of the TerreStar-1 satellite on July 1, 2009, TerreStar

technologies involved, TerreStar's SBN-IOT test activities need to be extended beyond June 30 Accordingly, TerreStar is seeking further extension of the STAs until and including September Due to the complex and ground-breaking nature of the GBBF and satellite base station

TerreStar's North Las Vegas gateway earth station. E070098); and (3) an unlicensed 1.8-m mobile earth terminal ("MET") 3 that is co-located with TerreStar's licensed gateway earth station located in North Las Vegas, Nevada (Call Sign (Call Sign S2633) to serve the United States; (2) the 6.3-m and 9.3-m antennas associated with Canadian-licensed satellite as to which TerreStar holds a letter of intent ("LOI") authorization The following three facilities will be used to continue SBN-IOT: (1) TerreStar-1, a

which an STA is sought.4 STA extension request: (1) the time period for which an STA is sought; and (2) the facility for connection with SBN-IOT. The STA request form this exhibit is attached to identifies, for each A copy of this exhibit accompanies each STA extension request TerreStar is filing in

The essence of the continuing SBN-IOT testing activity is described below

thus not concurrently submitting herewith a request to extend authority to operate those for further STA, TerreStar had included an additional further request to cover the operation of its ¹ TerreStar is currently operating under STA's most recently extended on February 20, 2010, under File Nos. SES-STA-20100208-00166 and SES-STA-20100208-00167. At the time that it submitted those requests Calibration Earth Station ("CES") devices. TerreStar has completed the SBN-IOT of its CES units and is

period for which TerreStar is currently seeking extension. ² Comsearch has extended the coordination of the operations to which this STA pertains through the

from the MET handsets that will be used by TerreStar's customers. express purpose of testing service link performance on TerreStar-1. The 1.8-m MET is entirely different ³ The 1.8-m MET, operating in a temporary fixed mode, uses a custom antenna that is designed for the

TerreStar-1's operations during IOT that deviate from the parameters on which the LOI authorization for connection with IOT. Rather, TerreStar identified in the initial IOT STA requests the parameters for issued for TerreStar-1, TerreStar did not file any request for special temporary authority for the satellite in TerreStar-1 are based ⁴ Based on discussions with the FCC's staff, and in light of the fact that no FCC radio license has been

- SBN IOT is largely completed. The continuing work involves over-theelement channel amplitude/phase calibration and pointing subsystems. satellite debugging and performance improvement of the GBBF and related
- Engineers are also troubleshooting and resolving certain minor GBBF facilities and regression tests performed to ensure its proper functioning. New engineering software will need to be uploaded at the North Las Vegas

improved system capability and performance. Finally, TerreStar handsets, with the trade name of the S-BSS is been tested and final steps are being taken to complete adjustments necessary for subsystem _SBAS), other GBBF components , handsets, and the Core Network. A new version subsystems being tested include the satellite base station sytem (S-BSS), satellite beam access calling is occurring using Ku-band feeder channels and S-band service links. Major ground the blanket authority for integrated handsets (i.e., user terminals). Extensive voice and data test satellite system under the existing licenses for its North Las Vegas (NLV) gateway station and performance. Genus, continue to be subject to numerous satellite field tests to improve functionalities and Commission, TerreStar has also been engaged, in parallel, in the end-to-end testing of its In addition to the SBN-IOT test activity described above, for the information of the