

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Application for 60-Day STA for BB45 terminals.

1. Applicant

Name:	RiteNet Corp.	Phone Number:	240-505-4996
DBA Name:		Fax Number:	
Street:	1445 Research Blvd Suite 505	E-Mail:	rramineni@ritenet.com
City:	Rockville	State:	MD
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Attention:	Mr. Rao Ramineni		

"corrected conditions"

60 days



File # SES-STA-20190203-00051
Call Sign E190028 Grant Date 02/21/2019
(or other identifier)
Term Dates
From: 02/22/2019 To: 04/23/2019
Approved: Paul E. [Signature]

Applicant: RiteNet Corp.
Call Sign: E190028
File No.: SES-STA-20190203-00051
Special Temporary Authority ("STA")

RiteNet Corp. ("RiteNet") is granted Special Temporary Authority for 60 days to operate up to 50 SkyTech model BB45 earth station aboard aircraft (ESAA) terminals to communicate with the Mexico licensed EUTELSAT 113WA (Call Sign S2695) satellite at the 113° W orbital location using 14.0-14.50 GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth) frequency bands within the satellite's footprints. Operations are subject to the following additional conditions:

1. Operations shall not exceed the coordinated parameters. Operations are on an unprotected and non-harmful interference basis. RiteNet must cease operations immediately upon notification of such interference and must immediately inform the Commission, in writing, of such an event.
2. Operation pursuant to this authorization must be in compliance with the terms of RiteNet's coordination agreements with the National Science Foundation and the National Aeronautics and Space Administration pertaining to operation of ESAAs in the Ku-Band.
3. Operation pursuant to this authorization outside the United States in the 14.0-14.5 GHz band must be in compliance with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643, with respect to any radio astronomy station performing observations in the 14.47-14.5 GHz band.
4. When operating in international airspace within line-of-sight of the territory of a foreign administration where Fixed Service networks have a primary allocation in the 14.0-14.5 GHz band, an ESAA must not operate in a manner that would produce predicted ground-level power flux density (pfd) in such territory in excess of the following values unless the foreign administration has imposed other conditions for protecting its FS stations: $-132 + 0.5 \times \text{THETA}$ dB(W/(m² MHz)) for $\text{THETA} \leq 40$; -112 dB(W/(m² MHz)) for $40 < \text{THETA} \leq 90$. Where: THETA is the angle of arrival of the radio-frequency wave in degrees above the horizontal, and the aforementioned limits relate to the pfd and angles of arrival that would be obtained under free space propagation conditions.
5. Operation pursuant to this authorization must conform to the terms of coordination agreements between the operator of EUTELSAT 113WA and operators of other Ku-band geostationary satellites within six angular degrees of EUTELSAT 113WA. In the event that another GSO Fixed-Satellite Service (FSS) space station commences operation in the 14.0-14.5 GHz band at a location within six degrees of any of these space stations, ESAAs operating pursuant to this temporary authority shall cease transmitting unless and until such operation has been coordinated with the new space station's operator or RiteNet demonstrates that such operation will not cause harmful interference to the new co-frequency space station.
6. RiteNet must operate in accordance with the off-axis EIRP spectral densities supplied in obtaining the satellite operator certification for EUTELSAT 113WA, attached as an exhibit to

the application. RiteNet shall automatically cease emissions within 100 milliseconds if the ESAA transmitter exceeds the off-axis EIRP spectral-densities supplied to the target satellite operator and transmission shall not resume until RiteNet conforms to the off-axis EIRP spectral densities supplied to the target satellite operator.

7. RiteNet must take all necessary measures to ensure that the operation authorized does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Requirements for restrictions can be determined by predictions based on calculations, modeling or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers. The licensee shall ensure installation of terminals on aircraft by qualified installers who have an understanding of the antenna's radiation environment and the measures best suited to maximize protection of the general public and persons operating the aircraft and equipment. A terminal exhibiting radiation exposure levels exceeding 1.0 mW/cm² in accessible areas, such as at the exterior surface of the radome, shall have a label attached to the surface of the terminal warning about the radiation hazard and shall include thereon a diagram showing the regions around the terminal where the radiation levels could exceed 1.0 mW/cm².

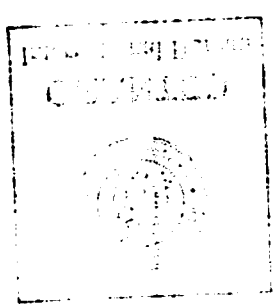
8. RiteNet must maintain a U.S. point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein. RiteNet has specified the following contact information: RiteNet Network Operations Center, 13665 Dulles Technology Drive, Suite 300, Herndon, VA 20171, Tel: 1-866-830-7610 and 1-703-391-9970, e-mail: noc@artellc.com

9. Stations authorized herein must not be used to provide air traffic control communications.

10. For each ESAA transmitter RiteNet shall maintain records of the following data for each operating ESAA, a record of the aircraft location (i.e., latitude/longitude/altitude), transmit frequency, channel bandwidth and satellite used shall be time annotated and maintained for a period of not less than one year. Records shall be recorded at time intervals no greater than one (1) minute while the ESAA is transmitting. The ESAA operator shall make this data available, in the form of a comma delimited electronic spreadsheet, within 24 hours of a request from the Commission, NTIA, or a frequency coordinator for purposes of resolving harmful interference events. A description of the units (i.e., degrees, minutes, MHz) in which the records values are recorded will be supplied along with the records.

11. Antenna elevation for all operations must be at least three degrees above the geographic horizon while the aircraft is on the ground.

12. RiteNet shall comply with any pertinent limits established by the International Telecommunication Union to protect other services allocated internationally.



Address: _____
Name: _____ To: _____
(of office or business) _____
City: _____ State: _____
Zip: _____

13. In connection with the provision of service in any particular country, RiteNet is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country.

14. Grant of this authorization is without prejudice to any determination that the Commission may make regarding RiteNet's pending FCC IBFS File No. SES-LIC-20190203-00052 or future applications.

15 Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at RiteNet's risk.

16. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately. Petitions for reconsideration under Section 1.106 or applications for review under Sections 1.115 of the Commission's rules, 47 C.F.R. § 1.106, 1.115, may be filed within thirty days of the date of the public notice indicating that this action was taken.



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Term Dates
From: 02/25/2019 To: 04/22/2019

Approved: [Signature]

"CORRECTED CONDITIONS"

9. State	10. Longitude (dd mm ss.s h) 0 0 0.0
11. Please supply any need attachments. Attachment 1: Narrative Attachment 2: Form 312 Schedule B Attachment 3: Technical Appendix	
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.) <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Application for 60-Day STA for BB45 terminals. </div>	
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. <div style="text-align: right;"> <input checked="" type="radio"/> Yes <input type="radio"/> No </div>	
14. Name of Person Signing Rao Ramineni	15. Title of Person Signing President
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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