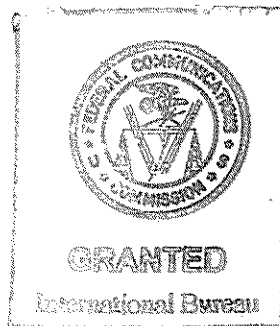


APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Application for Renewal of STA (AeroSat Test) – 1/29/2008

1. Applicant

Name:	Row 44 Inc.	Phone Number:	818-706-3111
DBA Name:		Fax Number:	
Street:	31280 Oak Crest Drive, Suite 5	E-Mail:	agior@verizon.net
City:	Westlake Village	State:	CA
Country:	USA	Zipcode:	91361 -
Attention:	Dr Arthur A Giordano		



File # SES-STA-20080129-00098  
Call Sign \_\_\_\_\_ Grant Date 1/31/08  
(or other Identifier) \_\_\_\_\_  
From 2/8/08 Term Expires 3/8/08  
Appr. by Jannette M. Spruce

<b>2. Contact</b>	
<b>Name:</b> David S. Keir	<b>Phone Number:</b> (202) 429-8970
<b>Company:</b> Leventhal Senter & Lerman PLLC	<b>Fax Number:</b> (202) 293-7783
<b>Street:</b> 2000 K Street, N.W. Suite 600	<b>E-Mail:</b> dkeir@lsl-law.com
<b>City:</b> Washington	<b>State:</b> DC
<b>Country:</b> USA	<b>Zipcode:</b> 20006 -
<b>Attention:</b> David S. Keir	<b>Relationship:</b> 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 SESSTA2007112101610 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    CGV – Fixed Satellite VSAT System	
5. Type Request	
<input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other	
6. Requested Use Prior Date 02/08/2008	
7. CityAmherst	8. Latitude (dd mm ss.s h) 42 48 42.4 N

9. State NH	10. Longitude (dd mm ss.s h) 71 35 17.46 W
11. Please supply any need attachments. Attachment 1: Explanatory                      Attachment 2: Antenna Patterns                      Attachment 3: RadHaz Study	
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: 10px 0;">Row 44 seeks a 30-day extension of the STA originally granted on 12/10/2007, and extended through 2/07/2008 on 1/03/2008, to allow it to operate a fixed aircraft Earth station at a terrestrial location (See File Nos. SES-STA-20071121-01610 and SES-STA-20080102-00005). The purpose of this operation is to continue gathering critical data from the testing of</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. <input checked="" type="radio"/> Yes <input type="radio"/> No	
14. Name of Person Signing John Guidon	15. Title of Person Signing CEO
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.**

## **12. Description**

Row 44 seeks a 30-day extension of the STA originally granted on 12/10/2007, and extended through 2/07/2008 on 1/03/2008, to allow it to operate a fixed aircraft Earth station at a terrestrial location (See File Nos. SES-STA-20071121-01610 and SES-STA-20080102-00005). The purpose of this operation is to continue gathering critical data from the testing of the antenna with respect to future provision of aeronautical mobile satellite service. Copies of the materials provided with the original application, as supplemented, are provided as attachments to this extension request.

Row 44, Inc.  
STA Request  
November 2007

### EXPLANATORY STATEMENT

Row 44, Inc. (“Row 44”) is seeking special temporary authority (“STA”) for a 30-day period to operate a fixed aircraft Earth station (“AES”) at a terrestrial location. The purpose of this operation is to test the terminal antenna for provision of commercial aeronautical mobile satellite service (“AMSS”). This is intended to be a final step in preparation for filing, in the near-term, of an application for a permanent AMSS license for remote AES units which will function with an existing hub Earth station. Row 44 understands that, because AMSS is a secondary allocation at Ku-band, both its STA operation and any permanent operation ultimately licensed must operate on a non-interference basis with respect to primary users in the band, and must accept any interference caused by these licensees. Because this is Row 44’s first request for FCC authorization, and to facilitate processing of this STA request, Row 44 is submitting as an attachment to this Explanatory Statement a complete Form 312 and Schedule B providing information about Row 44 and the complete technical details of its proposed STA operation.

Row 44 plans to offer a commercial broadband Internet data service to passengers and crew aboard commercial aircraft traveling in North American airspace, consistent with the framework that the Commission has proposed in its AMSS rulemaking proceeding. *See Service Rules and Procedures to Govern the Use of Aeronautical Mobile Satellite Service Earth Stations in Frequency Bands Allocated to the Fixed Satellite Service*, 20 FCC Rcd 2906 (2005) (“*AMSS NPRM*”). The service will include IP data services, IP voice and IPTV. The geostationary FSS satellite to be accessed is Galaxy 10R located at 123° West Longitude. A single remote unit will be located at the AeroSat Avionics facility in Amherst, New Hampshire, and will operate in conjunction with an existing hub terminal at Germantown, Maryland licensed to HNS License Sub, LLC (FCC Call Sign E000166). See Schedule B (location and contact information only is provided therein for this licensed hub). Row 44 notes that its transmission will comply with Section 25.209 of the FCC’s rules (47 C.F.R. § 25.209) and the uplink RF transmit power density will not exceed -14 dBW/4 kHz, consistent with Section 25.134(a)(1) (47 C.F.R. § 25.134(a)(1)).

Grant of the requested authority will serve the public interest by permitting Row 44 to continue its preparations to offer a new mobile broadband service that is needed by the public. As the Commission noted in the *AMSS NPRM*, there is a growing demand from airline passengers and crew for real-time, in-flight broadband data transmission and other communications capability. *See AMSS NPRM*, 20 FCC Rcd at 2908. Several companies are already providing similar services using the same Ku-band spectrum for general aviation and commercial airlines,<sup>1</sup> and this emerging marketplace will benefit from additional competition from new entrants. Row 44’s provision of AMSS will ultimately allow airline passengers to access a full range of broadband data, voice, and video services, including high-speed Internet

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<sup>1</sup> *See Boeing Company*, 16 FCC Rcd 22645 (IB/OET 2001); *ARNC Inc.*, 20 FCC Rcd 7553 (IB/OET 2005).

access and interactive entertainment, and would also facilitate access by flight crews to important weather updates and security information.

Accordingly, Row 44 requests that the FCC grant it an STA on an expedited basis to perform the static test described herein for a period of thirty days. Row 44 anticipates being able to commence testing by December 1, 2007, and respectfully requests Commission action on this application consistent with that timetable to the extent possible.