

SES - STA - 20150928 - 00636

Approved by OMB  
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
STA Request for Single Antenna w/ AMC-1 (129.15 WL) - Sept. 2015

**1. Applicant**

<b>Name:</b>	Row 44 Inc.	<b>Phone Number:</b>	818-706-3111
<b>DBA Name:</b>		<b>Fax Number:</b>	
<b>Street:</b>	4353 Park Terrace Drive	<b>E-Mail:</b>	smclellan@globaleagleent.com
<b>City:</b>	Westlake Village	<b>State:</b>	CA
<b>Country:</b>	USA	<b>Zipcode:</b>	91361 -
<b>Attention:</b>	Mr Simon McLellan		

Condition 1: All operations authorized on a non-protected and non-interference basis  
Condition 2: Not prejudice to action on pending modifications.



File # SES-STA-20150928-00636  
Call Sign E080100 Grant Date 9/29/2015  
(or other identifier)  
Term Dates  
From 9/29/2015 To: 10/2/2015  
Approved: Paul E. Glass

**2. Contact**

<b>Name:</b>	David S. Keir	<b>Phone Number:</b>	202-429-8970
<b>Company:</b>	Lerman Senter PLLC	<b>Fax Number:</b>	202-293-7783
<b>Street:</b>	2000 K Street, NW Suite 600	<b>E-Mail:</b>	dkeir@lermansenter.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20006 -1809
<b>Attention:</b>		<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 SESMFS2015092800635 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    CGB – Mobile Satellite Earth Stations

5. Type Request

- Use Prior to Grant                       Change Station Location                       Other

6. Requested Use Prior Date  
09/29/2015

7. City Washington

8. Latitude  
(dd mm ss.s h) 0 0 0.0 N

9. State DC	10. Longitude (dd mm ss.s h) 0 0 0.0 W
11. Please supply any need attachments. Attachment 1: Narrative                      Attachment 2: MOD Application                      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.) <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">Row 44, Inc. requests authority commencing immediately to operate a single ESAA antenna using conventional Ku-band capacity on the AMC-1 satellite at 129.15 degrees W.L. Such authority is sought for a period of 30 days for testing and demonstration purposes while its contemporaneously-filed license modification application remains pending. See</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 Simon McLellan	15. Title of Person Signing Chief Engineer & VP Systems Engineering
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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## **12. Description**

Row 44, Inc. requests authority commencing immediately to operate a single ESAA antenna using conventional Ku-band capacity on the AMC-1 satellite at 129.15 degrees W.L. Such authority is sought for a period of 30 days for testing and demonstration purposes while its contemporaneously-filed license modification application remains pending. See Attached Narrative.

### EXPLANATORY STATEMENT

Row 44, Inc. hereby requests Special Temporary Authority (“STA”) for a period of thirty (30) days, pursuant to Section 25.120(b) of the FCC’s Rules, to operate a single remote antenna in its licensed Ku-band network of Earth Stations Aboard Aircraft (“ESAA”), under Call Sign E080100, using AMC-1 at 129.15° W.L. as a point of communication. Row 44 has filed contemporaneously herewith an application seeking the permanent modification of its ESAA license to operate with AMC-1 as a new point of communication (“Modification Application”), along with a separate STA request seeking broader, longer term use of AMC-1 while the Modification Application is pending.

In this STA request, Row 44 seeks authority to permit testing and demonstration employing a single antenna mounted on its Albatross test aircraft to communicate using AMC-1 as a point of communication. The principal venue for such testing and demonstration would be the Airline Passenger Experience Expo in Portland, Oregon, which runs from September 28 – October 1, 2015. Row 44’s STA operation would change its current authority only through the addition of AMC-1 as a point of communication for this single antenna under the operating approach outlined in the Technical Appendix to the Modification Application (copy attached), and Row 44’s operations would otherwise remain consistent with all terms and conditions of its current license. Proposed operations on AMC-1 would be limited to conventional Ku-band capacity frequencies at 11.7 to 12.2 GHz (downlink) and 14.0 to 14.5 GHz (uplink).

All technical and other required information concerning Row 44’s planned use of AMC-1 is contained in the attached copy of the Modification Application. As stated therein, Row 44’s intended operations will not cause harmful interference into adjacent satellites operating in accordance with FCC’s two-degree spacing policy and are fully compliant with Section §25.227(a)(1)(i)(A) of the Commission’s Rules with respect to the plane of the geostationary (“GSO”) arc. *See* 47 C.F.R. §25.227(a)(1)(i)(A). Although the TECOM antenna will exceed the off-axis EIRP spectral density values set forth in the Commission’s rules for directions other than along the GSO arc (*see* 47 C.F.R. §25.227(a)(1)(i)(B)), it is seeking a waiver of this rule in the Modification Application. A waiver is consistent with precedent concerning the identical rule applicable to vehicle mounted earth stations (*see* 47 C.F.R. §25.226(a)(1)(i)(B)), as fully explained in the Modification Application.<sup>1</sup> Because there are no operational or licensed non-geostationary orbit FSS operators in the Ku-band, no protection of or coordination with such

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<sup>1</sup> *See, e.g.,* ThinKom Solutions Inc., File No. SES-LIC-20120822-00768, Call Sign E120174, Application, Technical Annex at 19 (granted March 8, 2013); RaySat Antenna Systems, LLC (now Gilat North America, LLC), File No. SES-MFS-20120517-00446, Application, Narrative at 23, and License, Call Sign E060448, at Condition 6582 (granted April 1, 2013) (“The request for waiver of off-axis EIRP spectral density limits for regions outside the GSO arc is granted under the condition that Raysat Antenna Systems, LLC must protect future NGSO satellite system authorizations”).

operators is currently required. In the event that a Ku-band NGSO FSS system is launched in the future, Row 44 would enter into coordination with the NGSO FSS system operator to establish operating parameters that permit successful co-frequency sharing, and would modify its operations as necessary to effect any coordination agreement reached. Row 44's planned operations will also be fully consistent with its existing agreements with the National Science Foundation and the National Aeronautics and Space Administration, and will adhere to the terms and conditions of Row 44's current license.

Under Section 25.120(b)(1) of the FCC's Rules, the International Bureau may grant an STA when the public interest supports the relief requested, and/or delay in the institution of temporary operations would be contrary to the public interest. *See* 47 C.F.R. § 25.120(b)(1). Such authority may be granted for a period not to exceed 60 days where the applicant has filed, or plans to file, a request for permanent authority for the parameters and facilities requested. *See* 47 C.F.R. § 25.120(b)(3). Here, Row 44 seeks only a 30-day period of operation for testing and demonstration purposes, while a longer term STA is sought for commercial operations.

Grant of the authority requested in this instance will affirmatively promote the public interest by permitting Row 44 to continue to develop and promote its in-flight connectivity service, which benefits both air travelers and airline crew members. Grant of the requested STA is consistent with Commission policy and will not adversely affect other authorized operations.

Row 44 acknowledges that favorable FCC action on this STA request would be without prejudice to the ultimate determination the FCC will make regarding its forthcoming modification application and the companion STA request. In addition, Row 44 acknowledges that any action taken pursuant to a grant of the requested STA will be at its own risk.

Accordingly, Row 44 respectfully requests that the FCC grant it authority immediately for a period of thirty (30) days to use AMC-1 as a point of communication in the conventional Ku-band for a single TECOM antenna aboard its Albatross test aircraft.