

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 AMC-1 @ 129.15 WL (increase to 300 units), Oct. 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@geemedia.com
<b>City:</b>	Westlake Village	<b>State:</b>	CA
<b>Country:</b>	USA	<b>Zipcode:</b>	91361
<b>Attention:</b>	Mr Simon McLellan		



File # SRS-STA-20151023-00773  
 Call Sign E080100 Grant Date 11-4-15  
 (or other identifier)  
 Term Dates  
 From: 11-4-15 To: 11-4-15  
 Approved: Paul E. [Signature]

Applicant: Row 44, Inc.  
Call Sign: E080100  
File No.: SES-STA-20151023-00773  
Special Temporary Authority (STA)



File # SES-STA-20151023-00773  
E080100  
Call Sign E080100 Grant Date 11-4-15  
(or other identifier)  
Term Dates  
From: 11-4-15 To: 1-4-16  
Approved: Paul E. Hays

Row 44, Inc. is granted a STA for a period of 60 days, from November 4, 2015 to January 4, 2016, to operate up to 300 aeronautical terminals (0.62 meter TECOM Ku-Stream antenna) to communicate with AMC-1 (Call Sign S2445) at the 129.15° W.L. orbital location using the 14.0-14.5GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth) frequency bands. Operations must be in accordance with the technical specifications contained in Row 44, Inc.'s application and are subject to the following conditions:

1. Operations under this grant of special temporary authority must be on an un-protected, non-harmful interference basis, i.e., while operating under this temporary authority Row 44, Inc. must not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating radiocommunication system. Row 44, Inc. must cease operations immediately upon notification of such interference and must immediately inform the Commission, in writing, of such an event.
2. ESAA operations in the 14.2-14.47 GHz band shall not exceed the EIRP density limits specified in the current earth station authorization, Call Sign E080100, IBFS File No. SES-MFS-20150424-00270.
3. Operation pursuant to this authorization outside the United States in the 14.2-14.47 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 aircraft earth station must not produce 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/(m<sup>2</sup> MHz)) for  $\text{THETA} \leq 40^\circ$ ;  $-112$  dB(W/(m<sup>2</sup> MHz)) for  $40^\circ < \text{THETA} \leq 90^\circ$ . 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. Operations pursuant to this authorization must conform with the terms of coordination agreements between the operator of AMC-1 and operators of other Ku-band geostationary satellites within six angular degrees of AMC-1. In the event that another GSO Fixed-Satellite Service (FSS) space station commences operations in the 14.0-14.5 GHz band at a location within six degrees of any of these space stations, aircraft earth stations operating pursuant to this temporary authority shall cease transmitting to that space station unless and until such operation has been coordinated with the new space station's operator or Row 44, Inc. demonstrates that such operation will not cause interference to the new co-frequency space station.