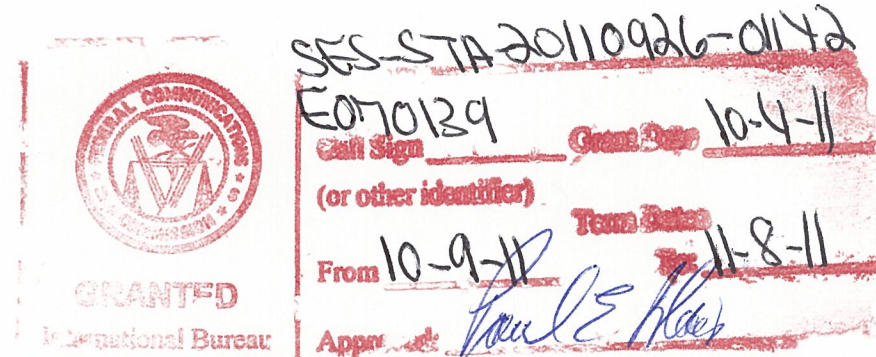


APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
STA 11-2011 Yellow Jacket

1. Applicant

Name:	Tachyon Networks Incorporated.	Phone Number:	858-882-8114
DBA Name:		Fax Number:	858-882-8122
Street:	9339 Carroll Park Drive Suite 150	E-Mail:	dan.negroni@tachyon.com
City:	San Diego	State:	CA
Country:	USA	Zipcode:	92121 -
Attention:	Mr Daniel Negroni		



- control center. The network control center must monitor operation of each aircraft earth station to determine if it is malfunctioning, and each aircraft earth station must self-monitor and automatically cease transmission on detecting an operational fault that could cause harmful interference to a fixed satellite service network.
- ix. Operation in the 11.7-12.2 GHz band shall be in accordance with the space station authorization.
 - x. Stations authorized herein shall not be used to provide air traffic control communications.
 - xi. Licensee's AMSS system shall operate in compliance with any limits established by the International Telecommunication Union (ITU) to protect other services allocated internationally.
 - xii. Operation pursuant to this authorization shall conform to the requirements of Tachyon's coordination agreements with NASA and NSF and with the terms of coordination agreements between the operator of specified satellites and operators of other Ku-band geostationary satellites within six angular degrees of specified satellites.
 - xiii. For a period of one year from the release of this order, the licensee shall maintain records of the following data for each operating AES: location (latitude, longitude, altitude); aircraft attitude (pitch, yaw, roll); transmit frequency and occupied bandwidth; data rate; EIRP; and target satellite. This data shall be recorded at intervals of no more than two minutes while an AES is transmitting and every 30 seconds when aircraft roll angle is greater than 10 degrees. The licensee shall also record instances when AES pointing error exceeds 0.2 degrees. The licensee shall make this data available upon request to an FSS system operator or the Commission within 24 hours after receiving the request.
 - xiv. Tachyon shall take all reasonable and customary measures to prevent human exposure to harmful non-ionizing radiation exceeding the maximum permissible exposure limits in Section 1.1310 of the Commission's rules, 47 C.F.R. § 1.1310. The exterior surface of the antenna shall be prominently marked with a warning of the potential for exposure to high levels of radiofrequency energy.

COMMUNICATIONS COMMISSION
FEDERAL BUREAU OF INVESTIGATION

International Bureau

AES-STA-20110926-01142

Call Sign E070129 Grant Date 10-4-11

(or other identifier)

From 10-9-11 Term Expires 11-8-11

Appr. [Signature]

Tachyon Networks Incorporated
E070139
SES-STA-20110926-01142

Conditions of Grant of Extension request SES-STA-20110926-01142

Grant authorized of Special Temporary Authority (STA) for 30 days, from October 9, 2011 through November 8, 2011, as an extension of its previous STAs (SES-STA-20110427-00518 and SES-STA-20110901-01019) upon the following conditions:

1. This is not an authorization of an Aeronautical Earth Station (AES) or Aeronautical Mobile Satellite Service (AMSS).
2. Transmissions may only occur while the earth station is in not in motion.
3. Appropriate safety protocols must be in place prior to the operation of the VSAT terminal to ensure that persons having access to areas where radiofrequency energy in excess of the maximum permissible limits specified in 47 C.F.R. § 1.1310 are not exposed. The exterior surface of the antenna shall be prominently marked with a sign warning of the potential for exposure to high levels of radiofrequency energy.
4. Transmission to and reception from Intelsat Horizons 2 satellite at 74.05 W. L. is granted only for the period of this authorization.
5. Uplink to Intelsat Horizons 2 within the band 14.2-14.47 GHz within coordinated emission and power limits.
6. Downlink from Intelsat Horizons 2 within the band 11.7-12.2 GHz.
7. Operations shall be on an unprotected and not to interfere basis.
8. In the event of any harmful interference, Tachyon shall cease operations immediately and shall inform the Commission, in writing, immediately of such an event.
9. This authorization is not one relating to an "activity of a continuing nature" for purposes of 47 C.F.R. § 1.62 and 5 U.S.C. § 558(c).
10. Grant of authority requested will serve the public interest by permitting Tachyon to performance aircraft integration static testing on U.S. Government aircraft.

11. Future authorizations that begin to test AES/AMSS operation must be authorized under FCC experimental license under the following conditions:
 - a. Authorization will be granted only for the continental United States and over its territorial waters, linking with the specified satellites in the 11.7-12.2 GHz and 14.0-14.4 GHz frequency bands, consistent with the specifications in compliance with the Commission's rules, except insofar as waived herein, and subject to the following conditions:
 - i. The stations authorized herein must operate in compliance with any rules subsequently adopted by the Commission.
 - ii. The licensee must accept interference from lawful operation of any station in the 11.7-12.2 GHz band in accordance with the U.S. Table of Frequency Allocations, 47 C.F.R. § 2.106, and shall immediately terminate operation upon notification that such operation is causing harmful interference, not permitted under the terms of a coordination agreement, with lawful operation of any radio system in the 11.7-12.2 GHz band in conformance with the U.S. Table of Frequency Allocations.
 - iii. In the event that another co-frequency GSO FSS satellite commences operation at a location within six degrees of the specified satellites, Tachyon shall cease operation of its AMSS system unless its AMSS operation has been coordinated with the new satellite's operator or Panasonic has demonstrated that its AMSS operation will not cause harmful interference to the new co-frequency satellite.
 - iv. In the event that a co-frequency NGSO satellite system commences operation, Tachyon shall cease AMSS operation unless such operation has been coordinated with the operator of the NGSO system or Tachyon has demonstrated that its AMSS operation will not cause harmful interference to the NGSO system.
 - v. Operation of an aircraft earth station authorized herein shall immediately terminate upon notification that such operation is causing harmful interference, not permitted under the terms of coordination agreements, with (1) lawful operation of any radio system in the 14.0-14.5 GHz band authorized on a primary basis in conformance with the U.S. Table of Frequency Allocations or authorized on a secondary basis prior to the effective date of this order, or (2) operation of any TDRSS earth station in the band 14-14.2 GHz, or (3) radio astronomy observations in the 14.47-14.5 GHz band.
 - vi. The licensee shall maintain a point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein, for discussing interference concerns with other licensees and U.S. Government agencies, and shall submit a letter to be included in its license file with the name and telephone number of the point of contact prior to commencing operation.
 - vii. Aircraft earth stations authorized herein must employ a tracking algorithm that is resistant to capturing and tracking adjacent satellite signals, and each station must be capable of inhibiting its own transmission in the event it detects unintended satellite tracking.
 - viii. Aircraft earth stations authorized herein must be monitored and controlled by a ground-based network control and monitoring center. Such stations must be able to receive "enable transmission" and "disable transmission" commands from the network control center and must cease transmission immediately after receiving any "parameter change" command until receiving an "enable transmission" command from the network

2. Contact			
Name:	Jeremy Guralnick	Phone Number:	858-882-8114
Company:	Tachyon Networks Inc.	Fax Number:	858-882-8122
Street:	9339 Carroll Park Drive	E-Mail:	jeremy.guralnick@tachyon.com
	suite 150		
City:	San Diego	State:	CA
Country:	USA	Zipcode:	92121 -3278
Attention:	Jeremy Guralnick	Relationship:	Same
(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 SESSTA2011090101019 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 CGX – Fixed Satellite Transmit/Receive Earth Station			
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			

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Tachyon
NETWORKS

September 26, 2011

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

***Re: Request for Renewal of STA Granted to Test Remote Terminal
SES-STA-20110901-01019 Granted on September 6, 2011
FCC Form 601***

Dear Ms. Dortch:

Tachyon Networks Incorporated (“Tachyon”) was granted a Special Temporary Authority to Test a new 18” remote terminal communicating with an Intelsat-owned, U.S. licensed hub in the frequency bands 11.7-12.2 GHz and 14.0-14.5 GHz on September 6, 2011, File No. SES-STA-20110901-01019 (“STA”). The STA was granted for the period September 10, 2011 through October 9, 2011. Tachyon desires to renew the STA.

This is the same application that Tachyon previously submitted and which was granted on May 19, 2011, File No. SES-STA-20110427-00518 (“May STA”) and again submitted on September 1, 2011, File No. SES-STA 20110901-01019 (“September STA”).

All technical information in the May STA and the September STA is incorporated herein by this reference. Tachyon accepts conditions substantially similar to those conditions of the May STA and the September STA. In the unlikely event that harmful interference occurs, Tachyon will take all reasonable steps to eliminate the interference.

Due to scheduling delays, Tachyon has not conducted its stationary testing as planned. Tachyon requests a renewal of the September STA for one (1) month commencing on October 9, 2011 and continuing to November 8, 2011. Tachyon is optimistic that it can complete the stationary testing within this timeframe.

Please direct any questions regarding this STA request to the undersigned at (619) 252-4158 or by email at jeremy.guralnick@tachyon.com. Your assistance with this matter is appreciated.

Respectfully submitted,



Jeremy Guralnick
VP Business Development

cc: Paul Blais
Frank Peace