

Date & Time Filed: Oct 14 2008 10:52:36:276AM
File Number: SAT-STA-20081014-00204
Callsign:

FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY
FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Request For Extension of Special Temporary Authority To Utilize Two (2) Alternate GES downlink channels in the 137-138 MHz band

1. Applicant			
Name:	ORBCOMM License Corp.	Phone Number:	585-461-3018
DBA Name:		Fax Number:	585-461-3476
Street:	ORBCOMM License Corp.	E-Mail:	sonnenfeldt.walter@orbcomm.com
	2115 Linwood Ave. Suite 100		
City:	Fort Lee	State:	NJ
Country:	USA	Zipcode:	07024
Attention:	Walter H Sonnenfeldt		


*Subject to the conditions
of Attachment 1 to
the application.*

File # SAT-STA-20081014-00204

Call Sign (or other identifier) Grant Date 10/30/08

Term Dates From 10/14/08 To: +60 days

Approved: *[Signature]*



GRANTED
International Bureau

2. Contact	
Name:	Walter H. Sonnenfeldt
Company:	ORBCOMM Inc.
Street:	2115 Linwood Avenue Suite 100 Fort Lee
City:	NJ
Country:	USA
Attention:	
Phone Number:	585-461-3018
Fax Number:	585-461-3476
E-Mail:	sonnenfeldt.walter@orbcomm.com
(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 SATSTA2008072500149 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 CXW – Space Station (Non-Geostationary)	
5. Type Request	
<input type="radio"/> Change Station Location <input checked="" type="radio"/> Extend Expiration Date <input type="radio"/> Other	
6. Temporary Orbit Location	
7. Requested Extended Expiration Date 2008-12-15 00:00:00.0	

<p>8. 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.)</p> <div style="border: 1px solid black; padding: 5px;"> <p>ORBCOMM License Corp. respectfully requests a sixty-day extension of its STA issued under File No. SAT-STA-20080725-00149 for use in the United States of two (2) alternate 50 kHz gateway earth station channels in the 137-138 MHz band.</p> </div>					
<p>9. 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.</p> <p style="text-align: right;"> <input checked="" type="radio"/> Yes <input type="radio"/> No </p>					
<p>10. Name of Person Signing Walter H. Sonnenfeldt</p>	<p>11. Title of Person Signing Vice President, Regulatory Affairs</p>				
<p>12. Please supply any need attachments.</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Attachment 1: Narrative Exhibit</td> <td style="width: 50%;">Attachment 2:</td> </tr> <tr> <td></td> <td>Attachment 3:</td> </tr> </table>		Attachment 1: Narrative Exhibit	Attachment 2:		Attachment 3:
Attachment 1: Narrative Exhibit	Attachment 2:				
	Attachment 3:				
<p>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).</p>					

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Attachment 1

Narrative Exhibit ORBCOMM License Corp. Request for Extension of Special Temporary Authority File No. SAT-STA-20080725-00149

ORBCOMM License Corp. (“ORBCOMM”), the holder of the Commission authorizations¹ issued for the ORBCOMM Non-Voice, Non-Geostationary Mobile Satellite Service system (the “ORBCOMM System”), respectfully requests a sixty-day extension of the Special Temporary Authority issued on August 15, 2008, File No. SAT-STA-20080725-00149 (the “Flex-Use STA”). The requested extension will allow ORBCOMM to continue testing and evaluation of dynamic operational use of two (2) alternate 50 kHz gateway earth station (“GES”) downlink channels centered on 137.225 MHz and 137.695 MHz.² As shown below, there is good cause for grant of this extension request.

ORBCOMM obtained the Flex-Use STA for two purposes:

1. To allow for more flexible and comprehensive performance verification testing for the GES downlink transmitters on the six new ORBCOMM replacement satellites launched on June 19, 2008; and
2. To evaluate the feasibility of dynamic reuse of the subject spectrum for both GES downlinks and Subscriber segment downlinks to increase the spectral efficiency and throughput capacity of the ORBCOMM System.

Since the initial grant of the Flex-Use STA, ORBCOMM has obtained useful preliminary test results. Additional time is needed, however, to conduct further testing to verify more fully if the use of dynamic downlink operations will be feasible for regular commercial operations. Among other things, the new orbit plane of six ORBCOMM replacement satellites is still being transitioned to its operational orbit plane spacing

¹ See, FCC Space Station Call Sign S2103, and FCC Earth Station Call Signs E940534, E940535, E940536, E940537 & E940538 (the “ORBCOMM FCC Licenses”). The ORBCOMM FCC Licenses currently permit regular operational GES downlink transmissions in the 137 – 138 MHz band on a 50 kHz channel centered at 137.56 MHz.

² The Flex-Use STA alternate GES downlink assignments are located in two segments of the 137 – 138 MHz band that are currently used for ORBCOMM subscriber downlinks in accordance with the ORBCOMM FCC Licenses. STA operation of the two alternate GES downlink channels will continue to be limited to the coverage area of the four FCC-licensed ORBCOMM GESs located in the United States.

configuration. Extending the Flex-Use STA will allow testing to continue with the new ORBCOMM satellites as they approach their operational status. This will allow ORBCOMM to conduct valuable further study, including a more accurate analysis of downlink frequency reuse feasibility as the new satellites are positioned in relation to the other spacecraft in the ORBCOMM constellation. The continued program of testing will provide more complete data to better verify the commercial feasibility of dynamic downlink operations in the operational ORBCOMM satellite constellation. For the above-stated reasons, expedited processing and grant of this extension request will serve the public interest, convenience, and necessity.