


S2110 SAT-STA-20110323-00058 IE2011000872
Iridium Satellite LLC

Date & Time Filed: Mar 23 2011 4:37:11:630PM
File Number: SAT-STA-20110323-00058
Callsign:



GRANTED*
International Bureau
+ with conditions

File # SAT-STA-20110323-00058
Call Sign S2110 Grant Date 03/25/11
(or other identifier)
Term Dates From 03/26/11 To: 04/24/11
Approved: Stephen J. Duall
Stephen J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678

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:
Iridium STA Extension Request for Japan Earthquake

1. Applicant

Name:	Iridium Satellite LLC	Phone Number:	703-287-7400
DBA Name:		Fax Number:	703-287-7450
Street:	1750 Tysons Boulevard Suite 1400	E-Mail:	donna.murphy@iridium.com
City:	McLean	State:	VA
Country:	USA	Zipcode:	22102 -
Attention:	Donna Bethea-Murphy		

**Conditions to Grant
Iridium Satellite LLC
IBFS File. SAT-STA-20110323-00058
March 25, 2011**

The request of Iridium Satellite LLC (Iridium) for special temporary authority (STA), IBFS File No. SAT-STA-20110323-00058, IS GRANTED.¹ Accordingly, Iridium is authorized for a period of thirty days, commencing March 26, 2011, to continue to operate its Mobile Satellite Service (MSS) in the 1.775 MHz of spectrum from 1616-1617.775 MHz in accordance with the terms, conditions, and technical specifications set forth in the Commission's rules and this document.

1. Iridium must operate in the 1616-1617.775 MHz frequency band on a non-harmful interference basis with respect to any other allocated radio service in that band, *i.e.*, Iridium shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating satellites. In the event Iridium is notified of such interference, it must immediately inform the Commission, in writing, of such an event.
2. Iridium shall work with Globalstar to minimize any impact of emergency operations authorized under this grant of STA on the Globalstar network.
3. Iridium shall file a report with the Commission every seven calendar days demonstrating its continued need and use of the 1616-1617.775 MHz frequency band. The first of these reports shall be filed seven calendar days after the grant date of this STA. The report must include information regarding system loading and system capacity over Japan for the preceding seven-day report period.
4. Any action taken or expense incurred as a result of operations pursuant to this special authority is solely at Iridium's own risk.
5. Iridium shall maintain the capability of suspending operations in the 1616-1617.775 MHz band, upon notice from the Commission, within 24 hours.
6. This STA may be terminated at the International Bureau's discretion, without a hearing, if conditions warrant. Under no circumstances may the facility(ies) authorized violate the terms of an international agreement or treaty.
7. This grant is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately.



*with conditions

File # SAT-STA-20110323-00058

Call Sign S2110 Grant Date 03/25/11

(or other identifier)

Term Dates

From 03/26/11

To: 04/24/11

Approved: _____

Stephen J. Duall

Stephen J. Duall
Chief, Satellite Policy Branch

¹ On March 23, 2011, Globalstar filed a letter requesting that Iridium suspend use of the 1616-1617.775 MHz band until Iridium addresses interference issues raised by Globalstar. *See* Letter from L. Barbee Ponder, General Counsel & Vice President Regulatory Affairs, Globalstar, to Roderick Porter, Deputy Chief, International Bureau (dated March 23, 2011). On March 25, 2011, Globalstar informed the International Bureau that it will withdraw this request.

2. Contact	
Name: Jennifer Hindin	Phone Number: 202-719-4975
Company: Wiley Rein LLP	Fax Number: 202-719-7049
Street: 1776 K Street, NW	E-Mail: jhindin@wileyrein.com
City: Washington	State: DC
Country: USA	Zipcode: 20006
Attention:	Relationship: 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 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 type="radio"/> Extend Expiration Date
	<input checked="" type="radio"/> Other
6. Temporary Orbit Location	
	7. Requested Extended Expiration Date

<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>Iridium Satellite LLC respectfully requests special temporary authority for an additional 30 days, from March 26, 2011 through April 24, 2011, to provide Mobile Satellite Service in the 1616.0-1617.775 MHz band to accommodate the continuing high demand for voice and data communications services in support of relief efforts following the earthquake in</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"; 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 Donna Bethea-Murphy</p>	<p>11. Title of Person Signing Vice President, Regulatory Engineering</p>				
<p>12. Please supply any need attachments.</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Attachment 1: Attachment</td> <td style="width: 50%;">Attachment 2:</td> </tr> <tr> <td></td> <td>Attachment 3:</td> </tr> </table>		Attachment 1: Attachment	Attachment 2:		Attachment 3:
Attachment 1: Attachment	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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8. Description

Iridium Satellite LLC respectfully requests special temporary authority for an additional 30 days, from March 26, 2011 through April 24, 2011, to provide Mobile Satellite Service in the 1616.0-1617.775 MHz band to accommodate the continuing high demand for voice and data communications services in support of relief efforts following the earthquake in Japan.



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March 23, 2011

Jennifer D. Hindin
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VIA ELECTRONIC FILING

Hon. Julius Genachowski
Chairman
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Re: Iridium Satellite LLC
Request for Special Temporary Authorization to Provide Mobile Satellite
Service in the 1616-1617.775 MHz Band for an Additional 30 Days

Dear Chairman Genachowski:

Iridium Satellite LLC (“Iridium”), by its attorneys and pursuant to 47 C.F.R. § 25.120, hereby requests Special Temporary Authorization (“STA”) to provide Mobile Satellite Service (“MSS”) in the 1616-1617.775 MHz band for an additional 30 days—from March 26, 2011 through April 24, 2011.¹

Grant of this request will serve the public interest by continuing to facilitate the restoration of communications following the March 11, 2011 earthquake and tsunami in Japan. More specifically, grant will help accommodate the continuing high demand for voice and data communications services by emergency response personnel and non-governmental relief organizations.

As the FCC is aware, the recent earthquake, tsunami and after-shocks in Japan have caused extraordinary devastation, including massive damage to communications infrastructure in the region.² Japan continues to experience problems as workers attempt to stop radiation leaks following explosions at the large Fukushima Daiichi

¹ On March 11, 2011, the Commission granted Iridium STA for testing and operation of its MSS system for a period ending March 18, 2011, in support of relief efforts in Japan. See IBFS File No. SAT-STA-20110311-00052. On March 17, 2011, the FCC granted an extension of this STA for an additional period ending March 25, 2011. See IBFS File No. SAT-STA-2011316-00056.

² See Matt Hambley, ‘Massive Damage’ from Japan Quake Hits Communications, Computerworld, (Mar. 11, 2011) at http://www.computerworld.com/s/article/9214203/Massive_damage_from_Japan_quake_hits_communications; see also Gavin Clarke, *Megaquake Cuts Japan Phone Lines*, The Register (Mar. 11, 2011) at http://www.theregister.co.uk/2011/03/11/japan_quake_phones_out/.



Hon. Julius Genachowski
March 23, 2011
Page 2

nuclear power plant.³ As such, in addition to the direct damage to telecommunications infrastructure, serious damage and devastation to power generation in Japan has resulted in reductions in capacity and rolling nationwide power outages, which have left wireline and wireless networks without reliable access to primary and backup power sources. Public safety officials, relief organizations, businesses and the public urgently need reliable voice and data communications services as they respond to the crisis. Iridium's mobile satellite service is ideally suited to meet this need and indeed, is currently providing vital service to emergency response teams and organizations in Japan. In fact, due to pre-positioning of Iridium equipment in Japan, many emergency vehicles are relying on Iridium as emergency response efforts continue.

Since the Commission's original grant of STA on March 11, 2011, Iridium's mobile satellite service has been essential to establishing communications both within Japan and between Japan and the rest of the world. Usage of the Iridium network spiked exponentially following the earthquake and continues at a very high level. Moreover, Iridium anticipates the already strong demand for its satellite service to grow as new aid groups and non-governmental organizations arrive in the area.⁴ Iridium continues to experience an approximately 175 percent increase in minutes of use. This does not include U.S. military or allied troops who are also actively using Iridium's network as they move into the area to help with relief efforts. Additionally, as rescue and relief efforts continue, Iridium expects call volumes to remain exceptionally high for the region. Indeed, on top of the thousands of handsets Iridium has recently shipped to the area, Iridium expects to ship

³ See Hiroko Tabuchi, David Jolly, and Kevin Drew, *Spent Fuel Hampers Efforts at Japanese Nuclear Power Plant*, NEW YORK TIMES, (Mar. 22, 2011) at <http://www.nytimes.com/2011/03/23/world/asia/23japan.html>.

⁴ One hundred and two countries and fourteen international organizations have already offered help to Japan, with a number of countries and organizations sending military personnel and rescue teams to assist first responders in Japan. See Reuters, *Aid and Rescue Offers for Japan Quake*, at <http://www.reuters.com/article/2011/03/15/us-japan-quake-aid-factbox-idUSTRE72E6LM20110315>; see also Mary Beth Sheridan and Craig Whitlock, *U.S. Military, Aid Groups Prepare to Assist After Japan Quake*, Washington Post (Mar. 11, 2011) at <http://www.washingtonpost.com/wp-dyn/content/article/2011/03/11/AR2011031105825.html>. A large number of non-governmental organizations have also sent rescue workers to Japan. See Cody Switzer, *Responses from Charities to the Japan Earthquake and Pacific Tsunami*, The Chronicle of Philanthropy, News, (Mar. 11, 2011) at <http://philanthropy.com/article/Many-US-Charities-Waiting/126706/#>.



Hon. Julius Genachowski
March 23, 2011
Page 3

approximately 2,700 more by early next week. As these handsets become active on the network, additional strain will be placed on Iridium's capacity.

Continued temporary access to the additional 1.775 MHz of spectrum will enable the Iridium satellites to use the full 10.5 MHz for which they were designed and thus best ensure the availability of reliable communications in Japan. Without this additional spectrum, Iridium expects that its network quickly would reach maximum congestion, potentially causing the satellites to be overloaded and calls to be dropped.

Iridium has complied and will continue to comply with all conditions of the original grant of STA.

Please direct any questions regarding this matter to Donna Bethea Murphy of Iridium or the undersigned.

Sincerely,

/s/ Jennifer D. Hindin

Jennifer D. Hindin
Counsel to Iridium Satellite LLC

cc: L. Barbee Ponder IV (Globalstar, Inc.)
Bob Nelson
Karl Kensinger
Cassandra Thomas
Kathryn Medley
Stephen Duall