Approved by OMB 3060-0678

### APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATIONEnter a description of this application to identify it on the main menu: Iridium Carrier STA Request to Add Amplifier Equipment

#### 1. Applicant

Name:

Iridium Carrier Services LLC

Phone Number:

301-571-6200

**DBA Name:** 

Fax Number:

301-571-6250

Street:

6701 Democracy Blvd.

E-Mail:

pat.mahoney@iridium.com

Suite 500

City:

Bethesda

State:

MD

Country:

USA

Zipcode:

20817

Attention:

Ms Patricia A Mahoney

### CONDITION

The action is without prejudice to any enforcement action with respect to operation of full-duplex MSS repeaters prior to the date of this grant.



File# SES-STA-200 40524-00716

Call Sign E960622 Grant Date 1 28 05 (or other identifier)

Term Dete

From 12/10/04

To: 2805

Approved: / fcg-

2. Contact				
Name:	Jennifer D. Hindin	Phone Number:	202-719-7000	
Company:	Wiley Rein & Fielding LLP	Fax Number:	202-719-7207	
Street:	1776 K Street, N.W.	E-Mail:	jhindin@wrf.com	
City:	Washington	State:	DC	
Country:	USA	Zipcode:	20006 -	
Contact Title:		Relationship:	Legal Counsel	
3. Reference File Numb	per			
4a. Is a fee submitted	d with this application?		ion (22 47 C E.D. Sostion 1 1114)	
			ion (see 47 C.F.R.Section 1.1114).	
	ty O Noncommercial education	nai ncensee		
Other(please explain	in):			
4b. Fee Classification	CGB - Mobile Satellite Earth Sta	tions		
5. Type Request				
Use Prior to Grant Change Station Location Other				
6. Requested Use Prior 05/25/2004	Date			
7. City		8. Latitude (dd mm ss.s h)	8. Latitude (dd mm ss.s h) 0 0 0.0	

9. State	10. Longitude (dd mm ss.s h) 0 0 0.0			
11. Please supply any need attachments.				
Attachment 1: Attachment 1 Attachment 2:	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.)  See Attachment 1.				
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.				
14. Name of Person Signing Patricia A. Mahoney	15. Title of Person Signing Vice President – Regulatory & Spectrum Affairs			
(U.S. Code, Title 18, Section 1001), AND/OR REV	ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT OCATION OF ANY STATION AUTHORIZATION R FORFEITURE (U.S. Code, Title 47, Section 503).			

#### FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

## ATTACHMENT 1

# **Description of STA Request**

amplifying signals to and from the handset in a linear, bi-directional manner proposed equipment will be manufactured by Eagle Broadband, Inc. (formerly, Eagle earth terminal ("MET") license (Call Sign E960132; File No. 423-DSE-P/L-96).2 The the mobile satellite service ("MSS") handsets authorized under its existing blanket mobile temporary authorization ("STA"), for a period of 60 days, to add new amplifier equipment to ("FCC" or "Commission"), I Iridium Carrier Services LLC ("Iridium") requests a special Wireless International, Inc.), and will serve as an extension of the Iridium MSS handset by Pursuant to Section 25.120 of the rules of the Federal Communications Commission

same technical parameters applicable to MSS handsets and has been certified under Part 2 of transmit and receive satellite communications quickly and reliably. It operates within the existing satellite signals, the proposed equipment will enable multiple MSS handsets to government/military operations and homeland security efforts. Specifically, by amplifying upon those services for a variety of routine and mission-critical applications, including equipment that will enhance the existing satellite services for Iridium subscribers who rely the FCC's rules to comply with the technical requirements of Part 25 of the FCC's rules. Grant of this STA request will serve the public interest by permitting use

<sup>47</sup> C.F.R. § 25.120.

regular authority to add new amplifier equipment to its licensed MSS handsets. <sup>2</sup> Section 25.120(b)(3) of the FCC's rules authorizes the Commission to grant an STA for 60 days "if the STA request has not been placed on public notice, and the applicant plans to file a request for regular authority for the service." Iridium intends to file shortly an application for modification of its blanket MET license to obtain

create any greater risk of interference than any MSS handset authorized under Iridium's including the out-of-band emission limits.3 Therefore, the proposed equipment will not blanket MET license

structure.4 permanent environments. Thus, the proposed equipment is suitable for installation in lightweight aluminum casing and can be installed to operate in various temporary or 0.6 in. (or 0.015 m.) in height, and weighs only 14 ounces. The two repeaters are housed in a aircraft, and other structures that otherwise could effectively block MSS signal reception. antennas, and two interior antennas. The equipment may be installed within buildings. reliability, full-duplex MSS repeater. Each unit consists of two repeaters, two exterior because the exterior antennas will not extend more than 6.1 meters above an existing Aviation Administration notification is not required under Part 17 of the Commission's rules vehicles; and mobile or permanent government, military, or commercial facilities. Federal buildings or other fixed structures; military, commercial, or private aircraft, ships, and Each of the four antennas is round in shape, is merely 2.75 in. (or 0.07 m.) in diameter and The proposed equipment is designed to serve as a lightweight, high-capacity, high-

only on those frequencies within the 1.6 GHz band that are assigned to the Iridium MSS Consistent with Iridium's blanket MET license, the proposed equipment operates

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<sup>&</sup>lt;sup>3</sup> See Certification Issued Under the Authority of the FCC to Eagle Wireless International Inc., FCC ID LOKJHJLBT05A00021 (granted on Oct. 25, 2003) ("Certification"). A detailed description of the proposed equipment, along with a demonstration of compliance with the Part 25 rules, is set forth in the underlying application for the Certification. See Application of Eagle Wireless International Inc. for Certification, FCC ID https://gullfoss2.fcc.gov/prod/oct/cf/eas/reports/GenericSearch.cfm LOKJHJLBT05A00021 (granted on Oct. 25, 2003), available at

<sup>4</sup> See 47 C.F.R. § 17.14(b).

rather merely amplifies that signal. It cannot perform any frequency reuse function that system. the Iridium satellite system. Moreover, it does not consist of or communicate with any base would provide for additional communications channels or otherwise increase the capacity of stations or switches It cannot modify, process, or otherwise control the MSS signal in any way, but

antenna and a separate, dedicated transmitting antenna that will re-transmit the MSS signal. utilized for downlink transmissions. Each repeater is attached to a dedicated receiving casing with full isolation. One repeater is utilized for uplink transmissions, and the other is Two-way MSS transmissions are handled by two separate repeaters housed in a single

that MSS uplink and downlink signals cannot interfere with each other six pole band pass filters centered on the frequency band assigned to Iridium. transmissions to the frequency band assigned to Iridium. Both repeaters are equipped with The proposed equipment employs narrowband filtering that limits all Iridium satellite This ensures

Broadband further advised Iridium that a number of public safety agencies have requested that would enhance MSS communications to support U.S. military operations in Iraq. Eagle customers have expressed an urgent need for new products such as the proposed equipment Eagle Broadband, the equipment manufacturer, has advised Iridium that several military increasing the potential for harmful interference to other authorized services. Specifically, which will satisfy an immediate need and demand for the proposed equipment without security efforts. MSS equipment that would satisfy the pressing needs of first responders and homeland Extraordinary circumstances warrant the Commission's grant of this STA request, A delay in the grant of this STA request thus would seriously prejudice the

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Mobile Earth Terminal STA Request
Response to Question 12
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public interest by depriving Iridium customers of innovative equipment that would enhance expeditiously. missions. Accordingly, Iridium urges the Commission to grant this STA request their communications capabilities during critical military operations and public safety

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From: Hindin, Jennifer [jhindin@wrf.com]
Sent: Tuesday, May 25, 2004 3:23 PM

To: Eleanor Lott
Subject: FW: Iridium STA Requests

Dear Eleanor,

Thank you for your phone call today. Attached are the correct exhibits for association with the two pending Iridium STA requests. Please feel free to call with any additional questions. -Jennifer

Jennifer D. Hindin
Wiley Rein & Fielding LLP
1776 K Street, N.W.
Washington, DC 20006
phone: 202.719.4975
fax: 202.719.7049
email to: jhindin@wrf.com

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<sup>1 47</sup> C.F.R. § 25.120.

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Mobile Earth Terminal STA Request Response to Question 12 Page 2 of 4

including the out-of-band emission limits.3 Therefore, the proposed equipment will not blanket MET license create any greater risk of interference than any MSS handset authorized under Iridium's

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