Date & Time Filed: Dec 22 2005 5:11:29:543PM File Number: SES-AMD-INTR2005-02976

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MA	AIN FORM FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu: Iridium Satellite Amendment (December 2005)

muium sa	itemite Amei	idifient (December 2003)		
1–8. Legal	Name of App	olicant		
	Name:	Iridium Satellite LLC	Phone Number:	301-571-6200
	DBA		Fax Number:	301-571-6250
	Name:			
	Street:	6701 Democracy Blvd.	E–Mail:	olga.madruga-forti@iridium.com
		Suite 500		
	City:	Bethesda	State:	MD
	Country:	USA	Zipcode:	20817 –
	Attention:	Ms Olga Madruga-Forti		
1				

9–16. Name of Contact Representative

Name: Jennifer D. Hindin Phone Number: 202–719–7000

Company: Wiley Rein & Fielding LLP **Fax Number:** 202–719–7207

Street: 1776 K Street, NW E-Mail: jhindin@wrf.com

City: Washington State: DC

Country: USA Zipcode: 20006–

Attention: Relationship: Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a1. Earth Station

a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

 $\ \ \, \bigcirc \ \$ (N/A) b3. Amendment to a Pending Application

(N/A) b4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

(N/A) b7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

(N/A) b10. Other (Please specify)

17c. Is a fee submitted with this application If Yes, complete and attach FCC Form	on? 159. If No, indicate reason for fee exemption (se	ee 47 C.F.R.Section 1.1114).					
Governmental Entity Noncomme	Governmental Entity Noncommercial educational licensee						
Other(please explain):							
17d.							
Fee Classification CGB – Mobile Satellite	Fee Classification CGB – Mobile Satellite Earth Stations						
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending apmodification please enter only the file number:	oplication enter both fields, if this filing is a					
(a) Call sign of station: (a) Date pending application was filed: (b) File number:							
E960132	09/27/2005	SESMOD2005092701329					

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite b. Mobile Satellite c. Radiodetermination Satellite d. Earth Exploration Satellite e. Direct to Home Fixed Satellite f. Digital Audio Radio Service g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose only one. Common Carrier Non–Common Carrier	22. If earth station applicant, check all that apply. Using U.S. licensed satellites Using Non–U.S. licensed satellites
facilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these Public Switched Network N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all a a. C-Band (4/6 GHz) b. Ku-Band (12/14 GHz) c.Other (Please specify upper and lower frequencies in MHz.) Frequency Lower: 1616 Frequency Upper: 1626.5	(Please specify additional frequencies in an attachment)

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
a. Fixed Earth Station
b. Temporary–Fixed Earth Station
c. 12/14 GHz VSAT Network
d. Mobile Earth Station
e. Geostationary Space Station
f. Non–Geostationary Space Station
g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY:
Transmit/Receive Transmit-Only Receive-Only N/A
"For Space Station applications, select N/A."

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & tountries)
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

ENVIRONMENTAL POLICY

impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	_		~			
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeron aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	ı rou	ite or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	•	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	No	•	N/A
32. Is the applicant a corporation of which more than one—fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	0	Yes	0	No	•	N/A

 $lackbox{ Yes } lackbox{ No}$

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	0	Yes	0	No	1 👁	N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.						
BASIC QUALIFICATIONS						
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.		•	Yes	() No	•
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.		0	Yes	•	No.)

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	• Yes Amended Exhib	No No Dit 5
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.	Amended Exhib	oit 4

41. 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.	Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	○ Yes	No
	Amended Exh	ibit 1
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued coordinated or is in the process of coordinating the space station? N/A	d, what administi	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the complete describox, please go to the end of the form to view it in its entirety.)	iption does not a	ppear in this
See Attachment		
Amendment		

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44.	Applicant is a (an): (Choose the button next to applicable response.)	
00000	Unincorporated Association Partnership Corporation Governmental Entity	
	45. Name of Person Signing Olga Madruga–Forti —->	46. Title of Person Signing Vice President – Regulatory & Legal

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).

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth S	tation Site					
E1: Site Identifier:	N/A	E5. Call Sign:	E960132			
E2: Contact Name	N/A	E6. Phone Number:	N/A			
E3. Street:	N/A	E7. City:	N/A			
		E8. County:	N/A			
E4. State		E9. Zip Code	N/A			
E10. Area of Opera	tion:	United States				
E11. Latitude:	0 °0 '0.0 "					
E12. Longitude:	0 °0 '0.0"					
E13. Lat/Lon Coord	dinates are:	O NAD-27	NAD-83	O N/A		
E14. Site Elevation	(AMSL):	0.0 meters				

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Set Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	O Yes	O No	⊚ N/A	
E17. Is the facility operated by remote control? If YES, provide the location.	ation and telephone number of the control	O Yes	0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the coordination contours as	name of the country(ies) and plot of	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FAI the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	A's study regarding the potential hazard of	O Yes	•	No
POINTS OF COMMUNICATION		<u> </u>		
Satellite Name: OTHER OTHER If you selected OTHER, please	enter the following:			
E21. Common Name: Iridium	E22. ITU Name: HIBLEO-2			
E23. Orbit Location: Nongeostat	E24. Country: USA			
POINTS OF COMMUNICATION (Destination Points)				
E25. Site Identifier: N/A				

E26. Common Name: Iridium	E27. Country: USA
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ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
N/A	EXT_TX	50000	Eagle Broadband, Inc.	L10-787-2	0.0889	2.5 dBi at 1.621	
N/A	INT_RX	50000	Eagle Broadband, Inc.	L10-787-2	0.0889	2.5 dBi at 1.621	
N/A	EXT_RX	50000	Eagle Broadband, Inc.	L10-787-2	0.0889	2.5 dBi at 1.621	
N/A	INT_TX	50000	Eagle Broadband, Inc.	L10-787-2	0.0889	2.5 dBi at 1.621	

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
EXT_TX	0.0889/0.0889	0.0	0.0	0.0	6.026	6.1	10.3
INT_RX	0.0889/0.0889	0.0	0.0	0.0	0.0	0.0	0.0
EXT_RX	0.0889/0.0889	0.0	0.0	0.0	0.0	6.1	0.0
INT_TX	0.0889/0.0889	0.0	0.0	0.0	0.0	0.0	-77.5

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
EXT_TX	1616 1626.5	Т	Right Hand Circular	41K7Q7W	10.3	1.34
E50. Modulation entirety.) QPSK/Voice		ne complete descrip	лоп чоез пот арреаг п	i uns oox, picase go	o to the end of the form	to view it in its
INT_RX	1616 1626.5	R	Right Hand Circular	41K7Q7W	0.0	0.0
E50. Modulation entirety.) QPSK/Voice	1626.5 and Services (If the		Circular		0.0 to the end of the form	

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

QPSK/Voice & Data

INT TX	1616	т	Right Hand	41K7O7W	_77.5	-86.5
IN1_1A		1	a. 1	41K/Q/W	-77.3	_60.5
	1626.5		Circular			
						1

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

QPSK/Voice & Data

FREQUENCY COORDINATION

E28. Antenna Id	1	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	0	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
EXT_TX	Non– Geostationary	1616 MHz 1626.5 MHz	0.0/0.0	0.0	0.0	0.0	0.0	1.34

INT_RX	Non– Geostationary	1616 MHz 1626.5 MHz	0.0/0.0	0.0	0.0	0.0	0.0	0.0
EXT_RX	Non– Geostationary	1616 MHz 1626.5 MHz	0.0/0.0	0.0	0.0	0.0	0.0	0.0
INT_TX	Non– Geostationary	1616 MHz 1626.5 MHz	0.0/0.0	0.0	0.0	0.0	0.0	-86.5

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E66. Phone Number		
NOTE: Please enter the callsign of the control callsign for which this application is being filed.				
E62. Street Address				
E63. City	E68. County		E67/68. State/Country	E64. Zip Code

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