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APP	PLICATION FOR EARTH STATI	ON AUTHORIZATIONS	FCC Use Only
	FCC 312 MAIN FORM FOR O	FFICIAL USE ONLY	
APPLICANT INFOR			
-	this application to identify it o	n the main menu:	
ridium Tempe C–Bar	nd Earth Station		
1–8. Legal Name of Ap	plicant		
Name:	Iridium Constellation LLC	Phone Number:	703-465-1018
DBA Name:		Fax Number:	703-465-1038
Street:	1600 Wilson Blvd.	E-Mail:	pat.mahoney@iridium.com
	Suite 1000		
City:	Arlington	State:	VA
Country:	USA	Zipcode:	22209 -2594
Attention:	Ms. Patricia A. Mahoney		

ne:	Jennifer Hindin	Phone Number:	202-719-4975
pany:	Wiley Rein & Fielding LLP	Fax Number:	202-719-7049
reet:	1776 K Street, N.W.	E-Mail:	jhindin@wrf.com
y:	Washington	State:	DC
untry:	USA	Zipcode:	20006-
ntact le:		Relationship:	

CLASSIFICATION OF FILING

both questions a. and b. Choose only one for 17a and only one for 17b. a. a. a. All Earth Station (N/A) a2. Space Station (N/A) a2. Space Station (N/A) b3 (N/A) b4 (N/A) b4 (N/A) b5 (N/A) b5 (Application for License of New Station Application for Registration of New Domestic Receive–Only Station 3. Amendment to a Pending Application 4. Modification of License or Registration 5. Assignment of License or Registration 6. Transfer of Control of License or Registration 7. Notification of Minor Modification 8. Application for License of New Receive–Only Station Using Non–U.S. Licensed 9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United . Other (Please specify) . Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to the Proposed Service in the Proposed Frequencies in the United States.
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 17c. Is a fee submitted with this applicat If Yes, complete and attach FCC Form Governmental Entity Other(please explain): 	159. If No, indicate reason for fee exemption (s	ee 47 C.F.R.Section 1.1114).
17d. Fee Classification BAX – Fixed Satellite T	Fransmit/Receive Earth	
Station	1	
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a(a) Date pending application was filed:	pplication enter: (b) File number of pending application:
(a) Call sign of station: Not Applicable	Not Applicable	Not Applicable

TYPE OF SERVICE

$\mathbf{F}_{\mathbf{r}}$ = $\mathbf{F}_{\mathbf{r}}$ = $1 \mathbf{G}_{\mathbf{r}}$ = $1 \mathbf{G}_{\mathbf{r}}$
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	22. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
○ Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER s facilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these
• Connected to a Public Switched Network • Not connected	to a Public Switched Network 💿 N/A
24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all a	pplicable frequency band(s).
a . C–Band (4/6 GHz) b . Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: Frequency Upper:	

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
(N/A) e. Geostationary Space Station
(N/A) f. Non–Geostationary Space Station
g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY: Choose only one.

Transmit/Receive
Transmit–Only
Receive–Only
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.)

Not Applicable

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental 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, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government?	O Yes ⊚ No O N/A
30. Is the applicant an alien or the representative of an alien?	O Yes O No ⊚ N/A

No No

31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	O ^{No}	● N/A
32. Is the applicant a corporation of which any officer or director is an alien or 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?	O Yes	O No	● N/A
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?	O Yes	O No	● 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.	O Yes	

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.	O 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 attemptiing 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.	O Yes	lo No

 a. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is abject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 7 CFR 1.2002(b) for the meaning of "party to the application" for these purposes. 	• Yes	O No
2a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, nswer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, roceed to question 43.	O Yes	● No
nswer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No,		

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Application for license for fixed transmit/receive C-band earth station.

A-C

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.)

Individual

O Unincorporated Association

- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

LLC

45. Name of Person Signing Patricia A. Mahoney		46. Title of Person Signing Vice President, Regulatory and Spectrum Affairs	
47. Please supply any need attachments.			
Attachment 1:	Attachment 2:	Attachment 3:	
(U.S. Code, Title 18, Sect	tion 1001), AND/OR REVOCATIO	SHABLE BY FINE AND / OR IMPRIS N OF ANY STATION AUTHORIZATIO RE (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 St	tation Site				
E1: Site Identifier:	А	E5. Call Sign:			
E2: Contact Name	Ralph Smith	E6. Phone Number:	480-752-1106		
E3. Street:	2501 S. Price Road	E7. City:	Chandler		
		E8. County:	Maricopa		
E4. State	AZ	E9. Zip Code	85284		
E10. Area of Opera	tion:	US			
E11. Latitude:	33 °15 '58.5 "N				
E12. Longitude:	111 °52 '53.5 "W				
E13. Lat/Lon Coord	linates are:	O ^{NAD-27}	NAD-83	O ^{N/A}	
E14. Site Elevation	(AMSL):	362.7 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.	• Yes	O ^{No}	O ^{N/A}
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O ^{No}	● ^{N/A}
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	۲	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as		Yes	O N	0
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	● ^N	0
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	8 N	0

Satellite Name: PERMITTED LIST If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
POINTS OF COMMUNICATION (Destination Points)	
E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer		Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi at GHz)
А	А	3	Andrew	ES76	7.6	49.0 dBi at 4
						52.7 dBi at 6

Id	Diameter	E35. Above Ground Level (meters)		Height Above Ground	Input Power at antenna flange 		E40. Total EIRP for al carriers (dBW)
А	0.0/0.0	8.1	370.8	0.0	20.0	0.0	65.7

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode			EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
А	3700 4200	R	Horizontal and Vertical	1M24G7W	0.0	0.0

E50. Modulation	and Services (If	the complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
entirety.)						
Digital Da	ta Carrier					
А	3700 4200	R	Horizontal and Vertical	45K0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If	the complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
Digital Da	ta Carrier					
А	5925 6077	Т	Horizontal and Vertical	1M24G7W	65.6	40.7
E50. Modulation entirety.)	and Services (If	the complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
Digital Da	ta Carrier					
А	5925 6077	Т	Horizontal and Vertical	45K0G7W	51.2	40.7

E50. Modulation	and Services	(If th	ne complete description	on does not appear ir	this box, please go t	o the end of the form	to view it in its
entirety.)							
Digital Da	ta Carrie	er					
A	6110	6270	Т	Horizontal and Vertical	1M24G7W	65.6	40.7
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear ir	n this box, please go t	o the end of the form	to view it in its
Digital Da	ta Carrie.	r					
А	6110	6270	Т	Horizontal and Vertical	45K0G7W	51.2	40.7
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear ir	this box, please go t	o the end of the form	to view it in its
Digital Da	ta Carrie	r					
А	6303	6421	Т	Horizontal and Vertical	1M24G7W	65.6	40.7

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.)

Digital Da		r					
A	6303	6421	Т	Horizontal and Vertical	45K0G7W	51.2	40.7
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear i	n this box, please	go to the end of t	he form to view it in its
Digital Da	ta Carrie	r					

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	Station Azimuth Angle	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)
А		3700 4200	60.0/ 143.0	113.3	23.1	227.7	39.0	0.0
		5925 6077	60.0/ 143.0	113.3	23.1	227.7	39.0	-18.06

		6110 6270	60.0/ 143.0	113.3		23.1	227.7	39.0	-18.06
		6303 6421	60.0/ 143.0	113.3		23.1	227.7	39.0	-18.06
REMOTE CO	NTROL POIN	FLOCATION				-			
E61. Call Sign						. Phone Number			
	se enter the calls ch this application	•	•	t the					
E62. Street A	Address			•					
E63. City			E67. County	7			E64/68. State/Country /	E66	. Zip Code

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