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### APPLICATION FOR EARTH STATION AUTHORIZATIONS

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: Intelsat New Ku-band E/S with Three Antennas at Hagerstown

1–8. Legal Name of Applicant	1-8.	Legal	Name	of Ap	plicant
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Name: Intelsat LLC **Phone Number:** 202–944–7891

**DBA Fax Number:** 202–944–7860

Name:

Street: 3400 International Drive, N.W. E-Mail: robert.mansbach@intelsat.com

City: Washington State: DC

**Country:** USA **Zipcode:** 20008 –3006

Attention: Robert A Mansbach

9–16. Name of Contact Representative (If other than applicant)

Name: Robert A Mansbach Phone Number: 202–944–7891

**Company:** Intelsat **Fax Number:** 202–944–7860

**Street:** 3400 International Drive **E-Mail:** robert.mansbach@intelsat.com

City: Washington State: DC

**Country:** USA **Zipcode:** 20008–3006

Contact Relationship: Same Title:

### 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.

a.

a1. Earth Station

(N/A) a2. Space Station

b.

b1. Application for License of New Station

**b**2. Application for Registration of New Domestic Receive–Only Station

(N/A) b3. Amendment to a Pending Application

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

(N/A) b5. Assignment of License or Registration

(N/A) 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

o b10. Other (Please specify)

• b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States.

17c. Is a fee submitted with this applicate If Yes, complete and attach FCC Form Governmental Entity Noncomme Other(please explain):	159. If No, indicate reason for fee exemption (	(see 47 C.F.R.Section 1.1114).
Fee Classification BAX – Fixed Satellite T Station	Transmit/Receive Earth	
<ul><li>18. If this filing is in reference to an existing station, enter:</li><li>(a) Call sign of station:</li><li>Not Applicable</li></ul>	19. If this filing is an amendment to a pending (a) Date pending application was filed: Not Applicable	application enter:  (b) File number of pending application:  Not Applicable
TYPE OF SERVICE  20. NATURE OF SERVICE: This filing is for	or an authorization to provide or use the following	ng 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	22. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER facilities:  Connected to a Public Switched Network  Not connected	service, see instructions regarding Sec. 214 filings. Choose one. Are these to a 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: Frequency Upper:	<u> </u>
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	
og. Other (please specify)	
26. TYPE OF EARTH STATION FACILITY: Choose only one.  Transmit/Receive Transmit-Only Receive-Only N/A	A

### PURPOSE OF MODIFICATION

TOM OSE 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.	O Yes	S No	
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronateronautical fixed radio station services are not required to respond to Items 30–34.	autical en roi	ute or	
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 ●	No O N/A	

O Yes	; <b>@</b> N	lo O N	//A
O Yes	; <b>⊗</b> N	lo O N	//A
<b>⊚</b> Yes	; <b>O</b> N	lo O N	/A
Е			
c	, Yes	No	)
	Yes	Yes N	

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.	<b>O</b> Yes	<b>⊚</b> 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	<b>⊚</b> 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	<b>⊚</b> No

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.		
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	<b>⊚</b> No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, w coordinated or is in the process of coordinating the space station?	hat administr	ation has

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.)

Intelsat LLC seeks to license a Ku-band transmit/receive earth station with three antennas at its Hagerstown, Maryland facility. The earth station will provide digital data services to its customers.

A-D

#### **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.

11	Applicant	ica	(an).	(Choose the	hutton next	to applicable	racnonca )
44.	Applicant	18 a 1	(an).	(Choose the	Dutton next	to applicable	response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

LLC

45. Name of Person Signing Patrick J. Cerra		46. Title of Person Sign Vice President	ning
47. Please supply any need attachments.			
Attachment 1:	Attachment 2:		Attachment 3:
	ction 1001), AND/OR RI	EVOCATION OF ANY	Y FINE AND / OR IMPRISONMENT STATION AUTHORIZATION ode, Title 47, Section 503).

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

Location of Earth Station Site

E1: Site Identifier: 1 E5. Call Sign:

E2: Contact Name Serge Ducharme E6. Phone 240–420–8999

Number:

E3. Street: 17625 Technology E7. City: Hagerstown

Blvd

E8. County: Washington

E4. State MD E9. Zip Code

E10. Area of Operation: US

E11. Latitude: 39 °35 '59.7 "N

E12. Longitude: 77 °45 '30.8 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 171.91 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.	● Y	es	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?	OY	es	O No	)	<b>⊚</b> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	0,	Yes	•	9	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as		Yes	(	>	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0,	Yes	(	<b>)</b>	No
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.		Yes	•	9	No
POINTS OF COMMUNICATION					
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	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
1	IMT 31	1	Vertex/RSI	KPK	4.8	53.5 dBi at 11.7
						55.2 dBi at 14.25
	IMT 30					53.5 dBi at 11.7
						55.2 dBi at 14.25
	IMT 32					53.5 dBi at 11.7
						55.2 dBi at 14.25

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)	E40. Total EIRP for al carriers  (dBW)
IMT 31	0.0/0.0	5.5	177.4	0.0	750.0	0.0	84.0
IMT 30	0.0/0.0	5.5	177.4	0.0	750.0	0.0	84.0
IMT 32	0.0/0.0	5.5	177.4	0.0	750.0	0.0	84.0

## FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
IMT 31	10950 11200	R	Linear and Circular	43K8G7W	0.0	0.0

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 Data			

IMT 31	10950	R	Linear and Circular	72M0G7W	0.0	0.0
	11200					

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Da	ta					
IMT 31	11450 12200	R	Linear and Circular	43K8G7W	0.0	0.0
E50. Modulation entirety.)  Digital Da		ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
IMT 31	11450 12200	Т	Linear and Circular	72M0G7W	0.0	0.0
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 Data						
IMT 31	14000 14500	Т	Linear and Circular	43K8G7W	79.0	41.2

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Da	ta					
IMT 31	14000 14500	Т	Linear and Circular	72M0G7W	79.0	41.2
E50. Modulation entirety.)  Digital Da		ne complete description	on does not appear in	tinis box, piease go u	o the end of the form	to view it in its
IMT 30	10950 11200	R	Linear and Circular	43K8G7W	0.0	0.0
E50. Modulation entirety.)  Digital Da	<u> </u>	ne complete description			o the end of the form	to view it in its
IMT 30	10950 11200	R	Linear and Circular	72M0G7W	0.0	0.0

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Da	ta					
IMT 30	11450 12200	R	Linear and Circular	43K8G7W	0.0	0.0
E50. Modulation entirety.)  Digital Da		ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
IMT 30	11450 12200	R	Linear and Circular	72M0G7W	0.0	0.0
E50. Modulation entirety.)  Digital Da	<u> </u>	ne complete description			o the end of the form	to view it in its
IMT 30	14000 14500	Т	Linear and Circular	43K8G7W	79.0	41.2

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Da	ta					
IMT 30	14000 14500	Т	Linear and Circular	72M0G7W	79.0	41.2
E50. Modulation entirety.)  Digital Da		ne complete description	on does not appear in	uns box, picase go u	o the end of the form	to view it in its
IMT 32	10950 11200	R	Linear and Circular	43K8G7W	0.0	0.0
E50. Modulation entirety.)  Digital Da	,	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
IMT 32	10950 11200	R	Linear and Circular	72M0G7W	0.0	0.0

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Da	ta					
IMT 32	11450 12200	R	Linear and Circular	43K8G7W	0.0	0.0
E50. Modulation entirety.)  Digital Da		ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
IMT 32	11450 12200	R	Linear and Circular	72M0G7W	0.0	0.0
E50. Modulation entirety.)  Digital Da	<u> </u>	ne complete description			o the end of the form	to view it in its
IMT 32	14000 14500	Т	Linear and Circular	43K8G7W	79.0	41.2

### FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	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)
IMT 31	Geostationary	10950 11200	6.0/ 60.0	101.9	5.3	153.3	40.6	0.0
	Geostationary	11450 11700	6.0/ 60.0	101.9	5.3	153.3	40.6	0.0

	Geostationary	11700 12200	6.0/ 143.0	101.9	5.3	253.6	10.3	0.0
	Geostationary	14000 14500	6.0/ 143.0	101.9	5.3	253.6	10.3	-0.73
IMT 30	Geostationary	10950 11200	6.0/ 60.0	101.9	5.3	153.3	40.6	0.0
	Geostationary	11450 11700	6.0/ 60.0	101.9	5.3	153.3	40.6	0.0
	Geostationary	11700 12200	6.0/ 143.0	101.9	5.3	253.6	10.3	0.0
	Geostationary	14000 14500	6.0/ 143.0	101.9	5.3	253.6	10.3	-0.73
IMT 32	Geostationary	10950 11200	6.0/ 60.0	101.9	5.3	153.3	40.6	0.0
	Geostationary	11450 11700	6.0/ 60.0	101.9	5.3	153.3	40.6	0.0
	Geostationary	11700 12200	6.0/ 143.0	101.9	5.3	253.6	10.3	0.0
	Geostationary	14000 14500	6.0/ 143.0	101.9	5.3	253.6	10.3	-0.73

# REMOTE CONTROL POINT LOCATION

E65. Phone Number

E63. City	E67. County	E64/68.	E66. Zip Code
		State/Country	_
		/	

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