Date & Time Filed: Dec 12 2014 4:32:08:510PM File Number: SES-MFS-20141212-00891

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM FCC Use Only

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Request for Modification of Earth Station License KA258

1–8. Legal Name of Applicant

Intelsat License LLC **Phone Number:** 703-559-7848 Name:

DBA Fax Number: 703-559-8539

Name:

Street: c/o Intelsat Corporation E-Mail: susan.crandall@intelsat.com

7900 Tysons One Place

City: McLean **State:** VA

USA Zipcode: **Country:** 22102 -5972

Attention: Susan H. Crandall

9–16. Name of Contact Representative

Name: Susan H. Crandall Phone Number: 703–559–7848

Company: Intelsat Corporation **Fax Number:** 703–559–8539

Street: 7900 Tysons One Place E–Mail: susan.crandall@intelsat.com

City: McLean State: VA

Country: USA **Zipcode:** 22102–5972

Attention: Susan H. Crandall 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

b 3. Amendment to a Pending Application

b4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

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)

(N/A) 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

(N/A) b12. Application for Database Entry

b13. Amendment to a Pending Database Entry Application

b14. Modification of Database Entry

17c. Is a fee submitted with this application? If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114). Governmental Entity Noncommercial educational licensee Other(please explain):					
17d. Fee Classification CGX – Fixed Satellite Testation	Transmit/Receive Earth				
18. If this filing is in reference to an existing station, enter: (a) Call sign of station: KA258	19. If this filing is an amendment to a pending apmodification please enter only the file number: (a) Date pending application was filed:	oplication enter both fields, if this filing is a (b) File number: SESMFS2011111501355			

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 22. If earth station applicant, check all that apply.
only one. Using U.S. licensed satellites
Common Carrier
23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:
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 applicable 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: (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?	٥	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	C	No	O
	Exhi	bit B				
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.		⊚ ,	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.	• 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	• 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	⊘ 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	O No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, we coordinated or is in the process of coordinating the space station? Permitted Space Station List Satellites Only	vhat administr	ration 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 License LLC herein requests modification of its authorization for Hagerstown, Maryland earth station KA258. Specifically, Intelsat seeks to add Intelsat 30 and Intelsat 31 to the Points of Communication to operate in the 13750-14000 MHz and 10950-11200 MHz bands.

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	● A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	O B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	o 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.

	plicable response.)
o Individual	
Unincorporated Association	
• Partnership	
O Corporation	
O Governmental Entity	
Other (please specify)	
45. Name of Person Signing	46. Title of Person Signing
45. Name of Person Signing Cynthia J. Grady	46. Title of Person Signing Regulatory Counsel, Intelsat Corporation
Cynthia J. Grady	
Cynthia J. Grady >	

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:	MTN-K91	E5. Call Sign:	KA258			
E2: Contact Name	Robert Phillips	E6. Phone Number:	240-527-6595			
E3. Street:	17625 Technology Bvd	E7. City:	Hagerstown			
		E8. County:	Washington			
E4. State	MD	E9. Zip Code	21740			
E10. Area of Opera	tion:	HAGERSTOWN, M	1D			
E11. Latitude:	39 °35 '54.0 "N					
E12. Longitude:	77 °45 '33.0 "W					
E13. Lat/Lon Coord	linates are:	○ NAD-27	● NAD-83	O N/A		
E14. Site Elevation	(AMSL):	174.65 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 Ser 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 loca point.	tion and telephone number of the control	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as			
		● Yes	٥	No
E19. Is coordination with another country required? If YES, attach the n coordination contours as	ame 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 FAA the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL I APPLICATION.	a's study regarding the potential hazard of	O Yes	•	No
POINTS OF COMMUNICATION		!		-
Satellite Name: INTELSAT 31 INTELSAT 31 95.05 If you selected	OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
Satellite Name: INTELSAT 11 INTELSAT 11 43.0 W.L. If you sele	ected OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name: Intelsat 16 IS 16 58 W.L. If you selected OTHER, I	please enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name: INTELSAT 30 INTELSAT 30 95.05 If you selected	d OTHER, please enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name: PERMITTED LIST If you selected OTHER, ple	ase enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
Satellite Name: PAS-1R PANAMSAT-1R 45.0 W.L. If you selecte	ed 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 Gain Transmint and/or Recieve (dBi atGHz)	
MTN-K91	1	1	T1W	14.2 Meter	14.2	62.0 dBi at 11.45	
MTN-K91	1	1	T1W	14.2 Meter	14.2	65.1 dBi at 14.25	

Id	Diameter		, ,	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
1	14.2/14.2	17.05	191.7	0.0	195.0	0.0	88.0

FREQUENCY

	E43/44. Frequency Bands (MHz)				EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1	10950 11200	R	Linear and Circular	NON	0.0	0.0

E50. Modulation entirety.)	n and Services (If t	he complete descripti	on does not appear in	this box, please go t	o the end of the form	to view it in its
IOT						
1	11450 12200	R	Linear and Circular	NON	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go t	o the end of the form	to view it in its
IOT						
1	10950 11200	R	Linear and Circular	800KG9D	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go t	o the end of the form	to view it in its
TT&C						
1	10950 11200	R	Left and Right Circular	800KF9D	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
TT&C						
1	11450 12200	R	Linear and Circular	800KF9D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
TT&C						
1	11450 12200	R	Linear and Circular	800KG9D	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
TT&C						
1	12200 12700	R	Linear and Circular	2M00F2D	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
TT&C						
1	12200 12700	R	Linear and Circular	400KF2D	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
TT&C						
1	14000 14500	Т	Linear and Circular	NON	51.1	51.1
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
IOT						
1	13750 13770	Т	Linear and Circular	850KF9D	87.0	63.7

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
TT&C						
1	13778 14000	Т	Linear and Circular	850KF9D	87.0	63.7
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
1	14000 14500	Т	Linear and Circular	2M00F9D	78.1	51.1
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
1	14000 14500	Т	Linear and Circular	400KF9D	71.1	51.1

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
TT&C						
1	17300 17800	Т	Linear and Circular	2M00F2D	83.3	56.3
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
TT&C						
1	17300 17800	Т	Linear and Circular	400KF2D	76.3	56.3
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
TT&C						
1	13246.5 13246.5	R	Linear and Circular	850KF2D	87.0	63.7

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
1	10950 11200	R	Linear and Circular	2M00F3N	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.) DATA, VOICE AND VIDEO SERVICE						
1	11450 12200	R	Linear and Circular	200KF3N	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.) DATA, VOICE AND VIDEO SERVICE						
1	11450 12200	R	Linear and Circular	2M00F3N	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	
	E AND VIDEO SE	RVICE					
1	10950 11200	R	Linear and Circular	200KF3N	0.0	0.0	
entirety.)	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, VOICE AND VIDEO SERVICE						
1	11700 12200	R	Linear and Circular	56K0G7W	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, VOICE AND VIDEO SERVICE							
1	11700 12200	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 the end of the form	to view it in its	
DIGITAL DA	TA, VOICE AND	VIDEO SERVICE					
1	14000 14500	Т	Linear and Circular	56K0G7W	62.6	51.1	
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.) DIGITAL DATA, VOICE AND VIDEO SERVICE							
1	14000 14500	Т	Linear and Circular	72M0G7W	88.0	45.4	
E50. Modulation entirety.)	and Services (If the		on does not appear in	this box, please go	to the end of the form	to view it in its	

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern 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)
1	Geostationary	10950 11200	6.0/149.0	101.9	5.3	257.8	5.7	0.0
	Geostationary	11450 12700	6.0/149.0	101.9	5.3	257.8	5.7	0.0
	Geostationary	13750 14000	6.0/149.0	101.9	5.3	257.8	5.7	11.6
	Geostationary	14000 14500	6.0/149.0	101.9	5.3	257.8	5.7	-1.0
	Geostationary	17300 17800	6.0/149.0	101.9	5.3	257.8	5.7	4.2
	Geostationary	13246.5 13246.5	6.0/149.0	101.9	5.3	257.0	5.7	11.6

REMOTE CONTROL POINT LOCATION

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

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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