Approved by OMB 3060–0678

Date & Time Filed: Feb 25 2020 3:51:12:446PM File Number: SES-MFS-20200225-00201

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN 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:

Modify E890649 to update authorization for Ku–band Hub Antenna currently authorized by license and add authorization to the license for one new Ku–band Hub Antenna

Name:	Comsat, Inc.	Phone Number:	(805)-933-4010
DBA Name:		Fax Number:	571-599-3670
Street:	2550 Wasser Terrace	E-Mail:	hwisniewski@comsat.com
	Suite 6000		
City:	Herndon	State:	VA
Country:	USA	Zipcode:	20171 –
ttention:	Howard Wisniewski		

9–16. Name of Contact Representative Name: James G. Lovelace **Phone Number:** 571.599.3643 Company: COMSAT, Inc. Fax Number: 571-599-3670 2550 Wasser Terrace E-Mail: jlovelace.ctr@comsat.com Street: Suite 6000 VA City: Herndon State: **Country:** USA Zipcode: 20171-Attention: James G. Lovelace **Relationship:** Other

CLASSIFICATION OF FILING

17. Choose the button next to the	
classification that applies to this filing for	(N/A) b1. Application for License of New Station
both questions a. and b. Choose only one	(N/A) b2. Application for Registration of New Domestic Receive–Only Station
for 17a and only one for 17b.	• b3. Amendment to a Pending Application
a1. Earth Station	b4. Modification of License or Registration
Y Y	b5. Assignment of License or Registration
• a2. Space Station	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 • Noncomme	ercial educational licensee				
• Other(please explain):					
17d.	17d.				
Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station					
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a modification please enter only the file number:	pplication enter both fields, if this filing is a			
(a) Call sign of station: E890649	(a) Date pending application was filed:	(b) File number:			
E070047		SESMOD2015100900731			

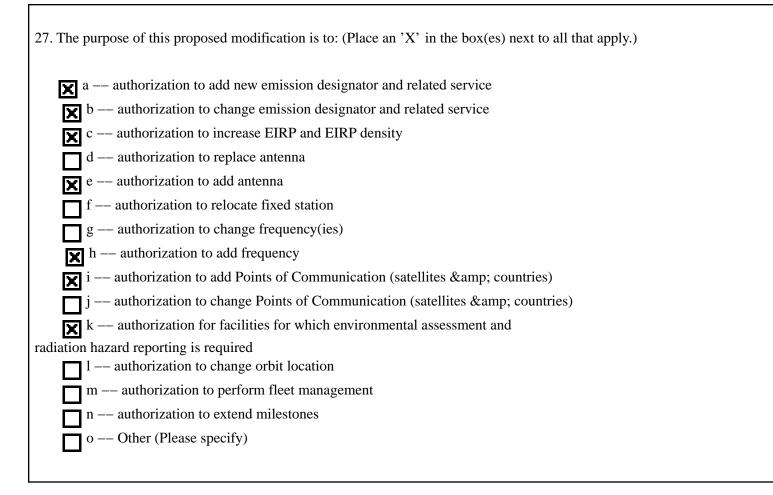
TYPE OF SERVICE

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 Non–Common Carrier	Using Non–U.S. licensed satellites	
23. If applicant is providing INTERNATIONAL COMMON CARRIER see facilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these	
Connected to a Public Switched Network O Not connected to a F	Public Switched Network O N/A	
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all ap	plicable frequency band(s).	
a. C–Band (4/6 GHz) k. Ku–Band (12/14 GHz)		
c.Other (Please specify upper and lower frequencies in MHz.)		
Frequency Lower: Frequency Upper: (Please specify addition	al 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
o c. 12/14 GHz VSAT Network
O 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



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	O Yes ● No
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.	RadHaz Report Exh

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?	0	Yes	۲	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	۲	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	۲	No	0	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	۲	No	0	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?

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	le 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.	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 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	O 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.

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.



O No

• Yes

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station? All are on FCC Space Station Approval List

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.)

COMSAT, Inc. respectfully requests that its Santa Paula, CA teleport E890649 license be modified to update the authorization for the Ku-band Hub Antenna currently authorized by license and add authorization to the license for one new Ku-band Hub Antenna. To accomplish the update please delete all current specifications and particulars from

Exh 1 – Lic. Mark up

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.	О ^В
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.

44. Applicant is a (an): (Choose the button next to applicable response.)					
O Individual					
Unincorporated Association					
• Partnership					
• Corporation					
• Governmental Entity					
• Other (please specify)	Other (please specify)				
45. Name of Person Signing	46. Title of Person Signing				
Howard Wisniewski	Teleport Engineer				
>					
	ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT VOCATION OF ANY STATION AUTHORIZATION 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:	SAPA15Ku	E5. Call Sign:	E890649		
E2: Contact Name	Howard Wisniewski	E6. Phone Number:	805-933-4010		
E3. Street:	7676 Pine Grove Rd.	E7. City:	Santa Paula		
		E8. County:	Ventura		
E4. State	CA	E9. Zip Code	93061		
E10. Area of Opera	tion:	CONUS			
E11. Latitude:	34 °24 '6.96 "N				
E12. Longitude:	119 °4 '21.25 "W				
E13. Lat/Lon Coord	dinates are:	ONAD-27	NAD-83	O N/A	
E14. Site Elevation (AMSL):		202.42 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
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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	6	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as SAPA15 Ku Coord Repo	۲	Yes	0	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	۲	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?E20 FAA Exhibit FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	۲	No

POINTS OF COMMUNICATION

Satellite Name: EUTELSAT133WA(S3031) | EUTELSAT 133 WA | 132.85 If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: EUTELSAT172B(S3021) | US & F filings | 172 E.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: SES-11 (S2964) SES-11 104.95 W.L If you selected	ed OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:	
E23. Orbit Location:	E24. Country:	

Satellite Name: EUTELSAT174A(S2610) EUTELSAT174A(S2610) 17	74 E. L. If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: PERMITTED LIST If you selected OTHER, plea	ase 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

E28. Antenna	E29. Quantity	E30.	E31. Model	E32. Antenna	E41/42.	
Id		Manufacturer		Size <meters></meters>	Antenna Gain	
					Transmint	
					and/or Recieve	
					(dBi at	
					GHz)	
						Id Manufacturer Size <meters> Antenna Gain Transmint and/or Recieve (dBi at</meters>

SAPA15Ku	SAPA15Ku	1	TIW	14.2 M	14.2	63.1 dBi at 12.130
SAPA15Ku	SAPA15Ku	1	TIW	14.2 M	14.2	64.6 dBi at 14.130

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)		`` '	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
SAPA15Ku	14.2/14.2	15.7	218.12	0.0	400.0	0.0	90.62

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode		Designator	EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
SAPA15Ku	10950 11200	R	Horizontal and Vertical	32K0D1W	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 Traffic Using Phase and Amplitude Modulation

SAPA15Ku	10950 11200	Horizontal and Vertical	32K0D7W	0.0	0.0

50. Modulatie ety.)	on and Service	s (If the	e complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
Digital 1	Fraffic Us	ing Pha	ase and Amplit	ude Modulation			
				1			1

SAPA15Ku	10950	R	Horizontal and	32K0F1W	0.0	0.0
	11200		Vertical			

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	Traffic Usin	g Phase and A	Amplitude Modulatio	on		
SAPA15Ku	10950 11200	R	Horizontal and Vertical	32K0F7W	0.0	0.0
entirety.)	tion and Services		lescription does not appear		go to the end of	the form to view it in it
SAPA15Ku	10950 11200	R	Horizontal and Vertical	54M0D1W	0.0	0.0

E50. Modulation entirety.)	n 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
Digital T	raffic Using	Phase and Amplitude Modulation

SAPA15Ku 10950 R Horizontal and Vertical 0.0 0.0	5/11/11/1Ku 10/50
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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	Traffic Usin	g Phase and <i>i</i>	Amplitude Modulatio	n			
SAPA15Ku	10950 11200	R	Horizontal and Vertical	54M0F1W	0.0	0.0]
entirety.)	tion and Services		lescription does not appear		go to the end of	the form to view it in i	ts
SAPA15Ku	10950 11200	R	Horizontal and Vertical	54M0F7W	0.0	0.0	

E	50. 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
entir	ety.)	
	Digital Traffic Usin	g Phase and Amplitude Modulation

				22400 114		İ
SAPA15Ku	11450	R	Horizontal and	32K0D1W	0.0	0.0
	12200		Vertical			

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	Traffic IIsin	a Phase and D	Amplitude Modulatio	מר		
Digitai		g mabe and r		511		
SAPA15Ku	11450 12200	R	Horizontal and Vertical	32K0D7W	0.0	0.0
entirety.)	tion and Services		lescription does not appear		go to the end of	the form to view it in its
SAPA15Ku	11450 12200	R	Horizontal and Vertical	32K0F1W	0.0	0.0

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

SAPA15Ku11450 12200RHorizontal and Vertical32K0F7W0.00.0	
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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.)	

entirety.)						
Digital	Traffic Usin	g Phase and A	Amplitude Modulatio	on		
SAPA15Ku	11450 12200	R	Horizontal and Vertical	54M0D1W	0.0	0.0
entirety.)	tion and Services		Amplitude Modulatic		go to the end of	the form to view it in its
SAPA15Ku	11450 12200	R	Horizontal and Vertical	54M0D7W	0.0	0.0

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

	Iorizontal and 54M0F1W /ertical	0.0	0.0
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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	Traffic Usin	g Phase and A	Amplitude Modulatio	on		
SAPA15Ku	11450 12200	R	Horizontal and Vertical	54M0F7W	0.0	0.0
entirety.)	tion and Services Traffic Usin	· •	lescription does not appear	•	go to the end of t	the form to view it in its
SAPA15Ku	14000 14500	Т	Horizontal and Vertical	32K0D1W	50.9	14.7

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	Traffic Using	g Phase and A	mplitude Modulatio	on		
SAPA15Ku	14000 14500	Т	Horizontal and Vertical	32K0D7W	50.9	14.7
E50. Modulat entirety.)	ion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
Digital	Traffic Using	g Phase and A	mplitude Modulatio	on		
SAPA15Ku	14000 14500	Т	Horizontal and Vertical	32K0F1W	50.9	14.7
E50. Modulat entirety.)	ion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
Digital	Traffic Using	g Phase and A	mplitude Modulatio	on		
SAPA15Ku	14000 14500	Т	Horizontal and Vertical	32K0F7W	50.9	14.7

Digital Tr	affic Using	Phase and A	mplitude Modulatio	n		
SAPA15Ku	14000 14500	Т	Horizontal and Vertical	54M0D1W	56.4	24.3
entirety.)			escription does not appear		go to the end of t	he form to view it in :
entirety.)			mplitude Modulatic		go to the end of t	he form to view it in :

SAPA15Ku14000
14500THorizontal and
Vertical54M0F1W56.424.3

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 Traffic Using Phase and Amplitude Modulation

SAPA15Ku	14000	Т	Horizontal and	54M0F7W	56.4	24.3
	14500		Vertical			

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 Traffic Using Phase and Amplitude Modulation

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	Range of Satellite Arc Eastern/West	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)
SAPA15Ku	Geostationary	10950 11200	46.0/192.0	99.8	5.2	260.2	5.4	0.0
	Geostationary	11450 12200	46.0/192.0	99.8	5.2	260.2	5.4	0.0

	Geostationary	14000 14500	46.0/192.0	99.8		5.2	260.2	5.4	32.4
REMOTE CO	REMOTE CONTROL POINT LOCATION								
E61. Call Si	gn				E66	. Phone Nu	umber		
	NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.								
E62. Street A	Address								
E63. City			E68. Coun	ty			E67/68. State/Count /	ry	E64. Zip Code

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:	SAPA41Ku	E5. Call Sign:	E890649			
E2: Contact Name	Howard Wisniewski	E6. Phone Number:	805-933-4010			
E3. Street:	7676 Pine Grove Rd	E7. City:	Santa Paula			
		E8. County:	Ventura			
E4. State	CA	E9. Zip Code	93061			
E10. Area of Opera	tion:	CONUS				
E11. Latitude:	34 °24 '9.59 "N					
E12. Longitude:	119 °4 '22.68 "W					
E13. Lat/Lon Coord	linates are:	O NAD-27	NAD-83	O N/A		
E14. Site Elevation	(AMSL):	204.91 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.	• 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.	• Yes	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	۲	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	۲	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.	0	Yes	۲	No

POINTS OF COMMUNICATION

Satellite Name: EUTELSAT174A(S2610) EUTELSAT174A(S2610) 17	74 E. L. If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: PERMITTED LIST If you selected	OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: EUTELSAT172B(S3021) US & F filings 172 E.L.	If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: EUTELSAT133WA(S3031) EUTELSAT 133 WA 132.85 If you selected OTHER, please enter the following:						
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
POINTS OF COMMUNICATION (Destination Points)	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 at GHz)	
SAPA41Ku	SAPA41Ku	1	General Dynamics	GD7.3MKu	7.3	57.38 dBi at 12.00	
SAPA41Ku	SAPA41Ku	1	General Dynamics	GD7.3MKu	7.3	58.2 dBi at 14.25	

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Al Level(n	bove Sea neters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Powe antenna flar (Watts)		E39. Maximum Antenna Heig Above Roofto (meters)	ht EIRP for al
SAPA41Ku	7.3/7.3	8.1	213.01		0.0		750.0		0.0	85.1
FREQUENCY			•		•					•
E28. Antenna Id	E43/44. Frequency Ba (MHz)	nds E45. T/R M	lode	E46. Anto Polarizat L,R)		E47. E Design	mission ator	E48. Maximum EIRP per Carrier (dBW)		E49. Maximum ERIP Density per Carrier (dBW/4kHz)
SAPA41Ku	10950 11200	R		Horizonta Vertical	l and	32K0D	1W	0.0		0.0
SAPA41Ku	10950 11200	R		Horizonta Vertical	ll and	32K0D	7W	0.0		0.0
entirety.)	on and Services	(If the complete of the comple			••		x, please go to	o the	end of the form	to view it in its

SAPA41Ku	10950 11200	R	Horizontal and Vertical	32K0F1W	0.0	0.0
E50. Modulatio entirety.)	n and Services	(If the complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
Digital T	raffic Using	Phase and A	mplitude Modulatio	on		
SAPA41Ku	10950 11200	R	Horizontal and Vertical	32K0F7W	0.0	0.0
Digital T	raffic Using	Phase and A	mplitude Modulatio	on		
SAPA41Ku	10950 11200	R	Horizontal and Vertical	54M0D1W	0.0	0.0
E50. Modulatio entirety.) Digital T		· •	escription does not appear	•	go to the end of	the form to view it in its

SAPA41Ku	10950 11200	R	Horizontal and Vertical	54M0D7W	0.0	0.0
E50. Modulat entirety.)	ion and Services	(If the complete d	escription does not appear	in this box, please	go to the end of t	the form to view it in its
Digital	Traffic Using	Phase and A	amplitude Modulatio	n		
SAPA41Ku	10950 11200	R	Horizontal and Vertical	54M0F1W	0.0	0.0
Digital	Traffic Using	Phase and A	amplitude Modulatio	on		
SAPA41Ku	10950 11200	R	Horizontal and Vertical	54M0F7W	0.0	0.0
entirety.)			escription does not appear	•	go to the end of t	the form to view it in its

SAPA41Ku	11450 12200	R	Horizontal and Vertical	32K0D1W	0.0	0.0
E50. Modulation entirety.)	n and Services (If the complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
Digital T	raffic Using	Phase and A	mplitude Modulatio	on		
SAPA41Ku	11450 12200	R	Horizontal and Vertical	32K0D7W	0.0	0.0
Digital T	raffic Using	Phase and A	mplitude Modulatio	on		
SAPA41Ku	11450 12200	R	Horizontal and Vertical	32K0F1W	0.0	0.0
E50. Modulation entirety.) Digital T			escription does not appear	•	go to the end of t	the form to view it in its

SAPA41Ku	11450 12200	R	Horizontal and Vertical	32K0F7W	0.0	0.0
E50. Modulation entirety.)	n and Services (If the complete d	escription does not appear	in this box, please	go to the end of t	the form to view it in its
Digital T	raffic Using	Phase and A	mplitude Modulatio	on		
SAPA41Ku	11450 12200	R	Horizontal and Vertical	54M0D1W	0.0	0.0
	rallic Using	Phase and A	mplitude Modulatio	011		
SAPA41Ku	11450 12200	R	Horizontal and Vertical	54M0D7W	0.0	0.0
E50. Modulation entirety.) Digital T	Ň	•	escription does not appear	•	go to the end of t	the form to view it in its

SAPA41Ku	11450 12200	R	Horizontal and Vertical	54M0F1W	0.0	0.0
E50. Modulation entirety.)	n and Services ()	f the complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
Digital T	raffic Using	Phase and A	mplitude Modulatio	on		
SAPA41Ku	11450 12200	R	Horizontal and Vertical	54M0F7W	0.0	0.0
Digital 1	raffic Using	Phase and A	mplitude Modulatio	on 		
SAPA41Ku	14000 14500	Т	Horizontal and Vertical	32K0D1W	45.2	9.2
E50. Modulation entirety.) Digital T:	×	•	escription does not appear	•	go to the end of t	he form to view it in its

SAPA41Ku	14000 14500	Т	Horizontal and Vertical	32K0D7W	45.2	9.2
E50. Modulation entirety.)	and Services (If	the complete descrip	tion does not appear	in this box, please	go to the end of the	he form to view it in its
Digital T	caffic Using P	hase and Ampli	tude Modulatic	n		
SAPA41Ku	14000 14500	Т	Horizontal and Vertical	32K0F1W	45.2	9.2
Digital T	caffic Using P	hase and Ampli	tude Modulatio	n		
SAPA41Ku	14000 14500	Т	Horizontal and Vertical	32K0F7W	45.2	9.2
E50. Modulation entirety.) Digital Tr	×		tion does not appear	•	go to the end of the	he form to view it in its

SAPA41Ku	14000 14500	Т	Horizontal and Vertical	54M0D1W	54.8	18.8
E50. Modulation entirety.)	and Services (If	the complete des	scription does not appear	in this box, please	go to the end of th	ne form to view it in its
Digital T	affic Using P	hase and Am	plitude Modulatic	n		
SAPA41Ku	14000 14500	Т	Horizontal and Vertical	54M0D7W	54.8	18.8
Digital T	affic Using P	hase and Am	mplitude Modulatio)n 		
SAPA41Ku	14000 14500	Т	Horizontal and Vertical	54M0F1W	54.8	18.8
E50. Modulation entirety.) Digital Tr	``````````````````````````````````````	•	scription does not appear	•	go to the end of th	ne form to view it in its

SAPA41Ku	14000 14500	Т	Horizontal and Vertical	54M0F7W	54.8	18.8			
	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								
ESO. 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 Traffic Using Phase and Amplitude Modulation									

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern 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)
SAPA41Ku	Geostationary	10950 11200	57.0/190.0	106.0	14.0	260.0	6.0	0.0
	Geostationary	11450 12200	57.0/190.0	106.0	14.0	260.0	6.0	0.0
	Geostationary	14000 14500	57.0/190.0	106.0	14.0	260.0	6.0	14.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number
NOTE: Please enter the callsign of the controlling station, not the 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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43. Description. (Summarize the nature of the application and the services to be provided).

COMSAT, Inc. respectfully requests that its Santa Paula, CA teleport E890649 license be modified to update the authorization for the Ku-band Hub Antenna currently authorized by license and add authorization to the license for one new Ku-band Hub Antenna. To accomplish the update please delete all current specifications and particulars from license for the currently authorized Hub Antenna (which is listed on the current license as SANTA PAULA 14.2M.TIW - See Exhibit 1 for details and license mark-up showing deletions) and then add back to the license the specifications and particulars as per Schedule B for this antenna (which is being renamed SAPA15Ku). It is requested that the new Ku-band Hub Antenna be added to license as per specifications and particulars set forth for this antenna (which is being named SAPA41Ku) in the Schedule B. Authorizations requested include Extended Ku-band Receive (space to earth). A Coordination Report is attached herewith for the existing antenna (SAPA15Ku) but Protection From Interference is not being requested for the new antenna (SAPA41Ku) so no Coordination Reports are being submitted for the new antenna.