## Federal Communications Commission Washington, D.C. 20554

## APPLICATION FOR NEW OR MODIFIED RADIO STATION AUTHORIZATION UNDER PART 5 OF FCC RULES EXPERIMENTAL RADIO SERVICE (OTHER THAN BROADCAST)

	e and Post Office add	iress	4)	_ `	WRITE IN THIS BLOC	K	
	, state, and ZIP Code	E. See Histiacuon 100.	File No. 1683-EX-PL-90				
COMSAT Ge	neral Corpor	ation	•				
	ant Plaza, S						
wasningto	n, D.C. 200	124	1	-			
(-) Application for	check only one box	)	2.(b) For Modification indicate below				
(a) Application for New Statio	_	fication of existing auti	File No.: Call Sign: KCLXJF				
		change in (check all tha					
☐ Frequency		Emission	☐ Power	☐ Location			
~		w or in anached Exhib	it No	-)			
□ Other part	Culais (describe base						
. Particulars of C	peration (See instruc	tions below)			T	NECESSARY	
Frequency (State Whether kHz or MHz)		POWER		EMISSION (E)	MODULATING SIGNAL (F)	BANDWIDTH (kHz) (G)	
(A)	(8)	(C)	(D)	G1D	600/1200	2.4	
626.5 -	20w	15 dBw	<u>Peak</u>		RPSK		
646.5 MHz		32 wears					
(B) Insert maxim (C) Insert maxim (D) Insert "ME/ (E) List each ty  (F) Insert as app (1) the maxim (2) maxim (3) frequent	num R.F. output pownum effective radiated AN" or "PEAK" (So pe of emission separa propriate for the type aximum speed of key num audio modulating ency devistion of carr duration and repetitic	i power from the anten see definitions in Part 5 tely for each frequency of modulation: ing in bauds: g frequency; rier;	nna (If pulsed emis).  (See Section 2.2)	01 FCC Rules.)	).		
	•						

a). Proposed loca	ation of trans	311111100	-						
			☐ MOBILI			☐ BASE & MOBIL	E		
(b) If permanently located at a fixed location, give below					· 1	(d) If mobile, describe the exact area of operation			
b) If permanently		a fixed lo	cation, give belo	<u> </u>		(d) Il moone, deserte	oc die exact 2.5-	. C. Operation	
ate	County		City or To		1				
MD.	Montg	Omery		suury					
mber and street 22300 CO									
c) Geographical coordinates exact to the nearest second						(e) Geographical coordinates of the approximate center of proposed area of operation (mobile applications)			
orth Latitude			West Longitude			North Latitude		West Longitude	
39	13	21	77	16	34	·			
Is a direction	al antenna (o	ther than	radar) used?			☐ Yes	⊠ No		
If "YES", gi						•			
(a) Width of (b) Orientatio	beam in degi n in horizon	rees at the tal plane	e half-power poir						
Is this author	ization to be	used for	fulfilling the req	uirement of a	a governr	nent contract with an	agency of the U	nited States Government?	
			☐ Yes			KU No			
								cy, and contact number.	
Is this author	rization to be	used for	the exclusive pu	rpose of dev	eloping n	adio equipment for ex	port to be emplo	yed by stations under the jurisdiction	
of a foreign	government?		•			☐ Yes	ĭ No	o	
(a) The contr	ract number	and the n	ame of the foreign	gn governmen	nt concer	neu.	The radio comm	nunication is not the objective of the	
9. Is this authoresearch pro	rization to be ject).	e used for	r providing comr	nunications e	ssential to	o a research project? (  Yes  roviding the following	information:	nunication is not the objective of the	
9. Is this authoresearch pro If "Yes", a (a) A descri (b) A showi (c) A showi	rization to be ject). ttach as EXI ption of the ng that the cong that exist	e used for HIBIT No nature of communicating	r providing common at the research propartions facilities remaining the proparties of the proparties of the proparties of the proparties of the provided the prov	nunications en narrative sta ject being con equested are inades	ssential to stement producted. necessary quate.	o a research project?  Yes  roviding the following  for the research proj	information: ect involved.	describing in detail the following:	
9. Is this authoresearch profif "Yes", a (a) A describ) A showid (c) A showid (d) A showid (e) A showid (e) The control (b) The specific (e) How the	rization to be ject).  ttach as EXI ption of the ng that the c ng that exist iswers to lter inplete program of the program of	e used for HIBIT No nature of communicing communicating communicating communications 7, 8, 2 am of reserves sough of experim	r providing comments and a providing comments are the research proparations facilities in the research and 9, are "No" earch and experii	nunications en narrative sta ject being con equested are inader ies are inader in attach as E mentation proshed, asonable proshed.	ssential to stement prinducted. necessary quate.	o a research project?  Yes roviding the following for the research proj  No, a narr	information: ect involved.  ative statement of equipment and t	describing in detail the following:	
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9. Is this authoresearch profit "Yes", a (a) A describle A showing (c) A showing (d) A showing (e) A showing (e) The specific of the specific	rization to be ject).  ttach as EXI ption of the ng that the cong that exist issues to lter inplete program of the program of	ms 7, 8, am of reserves sough f experimg line not	ame of the foreign and providing common at the research propagations facilities represented by the search and experient to be accomplished and investigation has a restall already investigation of time that we length of time in	nunications en narrative sta ject being con equested are inader ies are inader ies are inader ies are inader in asonable promated.	ssential to tement producted, necessary quate.  XHIBIT posed incomise of comise of com	No, a narrecluding description of ontribution to the devi	ative statement of equipment and the elopment, extense experimentation of this application.	describing in detail the following: theory of operation. tion, expansion, or utilization of the proposed in this application. will be required. 2 years ay have a significant	

13. List below		to be installed (if experime	ental, so state):  TYPE			NO. OF UNITS
	& Thrane			INMARSAT-C	Tranceiver	ן
im unc	a imune		0020/19			•
14. Is the equi	ipment listed in Item 13	capable of station identific	ation pursuant to Sec	tion 5.152?		
			□ Yes		⊠ No	
		6		n existino buildino		than 6 meters shows the
15. Will the a	ntenna extend more than or will the proposed ante	6 meters above the groun nna be mounted on an exi	a, or it mounted on sting structure other	than a building?	WIN IN CAREING INVIE	MAN O HEREIS BOOTE UK
_			☐ Yes		⊠ No	
If "Yes",	, give the following (See	Instruction 9):				
<b></b> .	Il haishe shawa mawad ea	tip of antenna is	meters			
(a) Overal	n neight spoke Stoning to	up of enterine 15				
(b) Elevat	ion of ground at antenna	site above mean sea level	is mete	rs.		
				kilom	.atare	
(c) Distan	ce to nearest aircraft land	ding area is		KIIOIT	EE(3.	
(d) Liet as	ny natural formations of	existing man-made structu	res (hills, trees, wate	r tanks, towers, etc	:.) which, in the opi	nion of the applicant, would
tend to	o shield the antenna from	aircraft and thereby mini	mize the aeronautica	hazard of the ante	nna.	
		•				
(e) Submi	it as EXHIBIT No	, a vertical profile	sketch of total struct	ure including suppo	rting building, if an	y, giving heights in meters
above	ground for all significan	it features. Clearly indicate	e existing portion, no	ting particulars of a	iviation obstruction	lignting aireatly available.
	•					•
16. Applicant	is (check only one box)					
☐ Indi		☐ Association	☐ Par	tnership	Corporation	
	er (describe below)	/ 1330Cau11041				
_ Ou	e percent beion,			•		
17. Is applica						
<b>-</b>	int a toreign government	or a representative of a fo	oreign government?	·		
	int a toreign government	or a representative of a fo	oreign government?	·	<b>1</b> No	
18. Has appli			☐ Ye:	•		permit, license or renewal
denied by	icant or any party to this y this Commission?	application had any FCC	station license or per	rmit revoked or had	any application for	permit, license or renewal
denied by	icant or any party to this y this Commission?		station license or per	rmit revoked or had	any application for	
denied by	icant or any party to this y this Commission?	application had any FCC	station license or per	rmit revoked or had	any application for	
denied by	icant or any party to this y this Commission?	application had any FCC	station license or per	mnit revoked or had is license or permit re	any application for	
If "Yes"	icant or any party to this y this Commission?  ', attach as EXHIBIT No licant be owner and open	application had any FCC  , a statemen ator of station?	station license or per Yes t giving call sign of	mit revoked or had s license or permit re	any application for  ☑ No voked and relate cir □ No	cumstances.
lf "Yes"  19. Will appl  20. Give name	icant or any party to this y this Commission?  , attach as EXHIBIT No licant be owner and operane, title, and telephone n	application had any FCC  ator of station?  umber (include area code)	station license or per Yes t giving call sign of	mit revoked or had s license or permit re	any application for  ☑ No voked and relate cir □ No	cumstances.
If "Yes"  19. Will appl  20. Give nam  Victo	icant or any party to this y this Commission?  The attach as EXHIBIT Notice that the owner and open the title, and telephone in the Schendeler (	application had any FCC  ator of station?  umber (include area code)	station license or per Yes t giving call sign of Ye of person who can be	mit revoked or had s license or permit re	any application for  ☑ No voked and relate cir □ No	cumstances.
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denied by If "Yes"  19. Will appl  20. Give nan Victo Progr  21. List belo	icant or any party to this y this Commission?  The attach as EXHIBIT Not licant be owner and operated the common and telephone in the common a	application had any FCC  application had any FCC  ator of station?  umber (include area code)  (301) 428-5155	station license or per yes t giving call sign of Yes of person who can the	mit revoked or had ilicense or permit re s	No No No No No No No Do No s pertaining to this a	cumstances.
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## 22. CERTIFICATION ATTENTION: Read this certification carefully before signing this application. THE APPLICANT CERTIFIES THAT: (a) Copies of the FCC Rules Parts 2 and 5 are on hand; and (b) Adequate financial appropriations have been made to carry on the program of experimentation which will be conducted by qualified personnel; (c) All operations will be on an experimental basis in accordance with Part 5 and other applicable rules, and will be conducted in such a manner and at such a time as to preclude harmful interference to any authorized station; and (d) Grant of the authorization requested herein will not be construed as a finding on the part of the Commission (1) that the frequencies and other technical parameters specified in the authorization are the best suited for the proposed program of experimentation, and (2) that the applicant will be authorized to operate on any basis other than experimental, and (3) that the Commission is obligated by the results of the experimental program to make provision in its rules including its table of frequency allocations for applicant's type of operation on a regularly licensed basis. APPLICANT CERTIFIES FURTHER THAT: (e) All the statements in the application and attached exhibits are true, complete and correct to the best of the applicant's knowledge; and (f) The applicant is willing to finance and conduct the experimental program with full knowledge and understanding of the above limitations; and (g) The applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the USA. 15th Signed and dated this \_\_ COMSAT General Corporation Name of Applicant \_\_\_ (correspond with name given on page 1) President Title Check Appropriate Classification: WILLFUL FALSE STATEMENTS MADE ON THIS FORM ☐ Individual Applicant ARE PUNISHABLE BY FINE AND IMPRISONMENT. U.S.

## NOTIFICATION TO INDIVIDUALS UNDER PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1980

CODE. TITLE 18. SECTION 1001.

Information requested through this form is authorized by the Communications Act of 1934, as amended, and specifically by Section 308 therein. The information will be used by Federal Communications Commission staff to determine eligibility for issuing authorizations in the use of the frequency spectrum and to effect the provisions of regulatory responsibilities rendered the Commission by the Act. Information requested by this form will be available to the public unless otherwise requested pursuant to Section 0.459 of FCC Rules and Regulations. Your response is required to obtain this authorization.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), and the Paperwork Reduction Act of 1980, P.L. 96-511, December 11, 1980, 44 U.S.C. 3507.

☐ Member of Applicant Partnership

☑ Office of Applicant Corporation

or Association

Authorized Employee