## FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

Approved by OMB 3060-0065 Expires 12/31/92

Public reporting burden for this collection of information is estimated to average 4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Federal Communications Commission, Office of Managing Director, Washington, DC 20554, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (3060-0065), Washington, DC 20503.

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

2.(a) Application for New Station  3. Application for me	(check only one box	2002 4  ification of existing a change in (check all temission	uthorization	2.(b) For File No.:	· Modification ind	icate below  Call Sign:	<u></u> 	JF
2.(a) Application for New Station  3. Application for me	(check only one box	2A SW 2002 4 ification of existing a change in (check all to Emission	uthorization that apply)  □ Power	2.(b) For File No.:	Modification ind	icate below	 ?C2X	JF_
2.(a) Application for New Station  3. Application for me	(check only one box	2002 4  ification of existing a change in (check all temission	that apply)	File No.:				JF
2.(a) Application for New Station 3. Application for me	(check only one box	r)  ification of existing a  change in (check all t  Emission	that apply)	File No.:			rc2x	JF
New Station  3. Application for me	n	ification of existing a change in (check all t Emission	that apply)	File No.:				TP
New Station  3. Application for me	n	ification of existing a change in (check all t Emission	that apply)	File No.:			C2X	JF
New Station  3. Application for me	n	ification of existing a change in (check all t Emission	that apply)	File No.:			C2X	JF
3. Application for me	odification indicate	change in (check all t	that apply)			Call Sign: K	KC2X	JP_
☐ Frequency	0	Emission	☐ Power	1	☐ Location			
_				)	☐ Location			
Other partic				)	Excasion			
□ Other partic	uiars (describe belo	w or in attached Exhi	ibit No	1				
4. Particulars of Ope	eration (See instruct	ions below)						
Frequency (State Whether kHz or POWER						NECESSARY		
MHz)	(B)	(0)		E	MISSION	MODULATING SIGNAL		DWIDTH kHz)
	TELETYPE	(C)	(D)		(E)	(F)		(G)
4 6	VOICE	36 d BW, +1	-2 dB EIRP	Mean	389BM	BPSK	HSD	112KH
	High Speed	36 d BW. +		<del>?</del>	3 Peak	FM	Voice Telex	_28 KHz
535.0 -	Data	5012 wates					TELEX	8 KH;
543.5 MHZ	MAX SPEE		TOMA = 4800	havd	High Songe	Data = 112 Kb		
F2		MODULATING	FREO: 3200		Alga Speed	DATO - IIA NA	ps	
B. 1	1AX RE POU	IER = 45 dB	M					
F4. 8	PULSE DURA	70N=37.7	ms every	1.74 5	econds	· · · · · · · · · · · · · · · · · · ·		·
<u> </u>	REQ DELLA	non From d	ARRIER = 12	KHZ	MAX		·····	
A) List each frequen	ncy or frequency bar	nd separately. (If mor	re space is required, a	ittach as Ex	hibit No	).		
b) insert maximum	R.F. output power a	at the transmitter tern	ninals. Specify units.			<del></del> ,.		
(C) Insert maximum effective radiated power from the antenna (If pulsed emission specify peak power). (D) Insert "MEAN" or "PEAK" (See definitions in Part 5).  HSD = High Speed Data								
(E) List each type of emission separately for each frequency. (See Section 2.201 FCC Rules )								
<ul> <li>Insert as appropri</li> </ul>	iate for the type of a	modulation:		,				
(1) the maximum :	um speed of keying audio modulating fre	in bauds;						
	deviation of carrier;	quency,						
(4) pulse durati	ion and repetition ra	ite.						
For complex emis	ssions, describe in d	letail in the space pro	vided below.					
G) Describe how the	necessary bandwid	In was determined in	space provided below	<b>'.</b>				

☐ FIXED/B	ASE.	MOBILE	☐ BASE & MOBILE
			(d) If mobile, describe the exact area of operation
) If permanently	y located at a fixe	d location, give below	- TOWN IS STATES (CONUS)
te	County	City or Town	CONTINENTIAL OBTIES STATES
mber and street	(or other indicat	ion of location)	
Geographical C	oordinates exact	to the nearest second	(e) Geographical coordinates of the approximate center of proposed area of operation (mobile applications)
Geographicar			North Latitude West Longitude
orth Latitude		West Longitude	, "
Is a direction	al antenna (other	than radar) used?	Yes 0.9 nater No
15 WEED!! -	ing the following	information:	V , , , , , , , , , , , , , , , , ,
(a) Width of (b) Orientation	beam in degrees on in horizontal p	at the half-power point lane >//	ement of a government contract with an agency of the United States Government?
. Is this author	rization to be used	i for fulfilling the requir	No
If "Yes", at	tach as EXHIBIT	No, a nar	rative statement describing the government project, agency, and contact number.
			ose of developing radio equipment for export to be employed by stations under the jurisdiction
Is this autho of a foreign	rization to be use government?	d for the exclusive purp	Yes No
If "Yes", a (a) The cont	· muunni	No, the fine name of the foreign	following information:
(a) The cont	ttach as EXHIBIT	the name of the lovergi	following information: government concerned.
(a) The cont	ttach as EXHIBIT	the name of the lovergi	following information:
(a) The cont	tract number and orization to be usoject).	ed for providing commu	following information: government concerned.  nications essential to a research project? (The radio communication is not the objective of the  Yes  Vo  No
9. Is this authoresearch pro- If "Yes", (a) A descri	tract number and orization to be usoject).	ed for providing commu  T No, a note of the research projections facilities required to the research projection facilities require	following information: government concerned.  nications essential to a research project? (The radio communication is not the objective of the  Yes  arrative statement providing the following information: tt being conducted. uested are necessary for the research project involved.
9. Is this authoresearch pro- If "Yes", (a) A descri	tract number and orization to be usoject).	ed for providing commu	following information: government concerned.  nications essential to a research project? (The radio communication is not the objective of the  Yes  arrative statement providing the following information: tt being conducted. uested are necessary for the research project involved.
9. Is this authoresearch pro If "Yes", (a) A descr (b) A show (c) A show	orization to be usoject).  attach as EXHIBITATION TO BE USED TO BE	ed for providing commu  T No, a note of the research project nunications facilities requestions facilities.	following information: government concerned.  nications essential to a research project? (The radio communication is not the objective of the  Yes  arrative statement providing the following information: to being conducted. uested are necessary for the research project involved. s are inadequate.
9. Is this authoresearch pro If "Yes", (a) A descr (b) A show (c) A show	tract number and orization to be used operation of the naturing that the company that existing	ed for providing commu  T No, a narre of the research project munications facilities requommunications facilities	following information: government concerned.  nications essential to a research project? (The radio communication is not the objective of the  Yes  arrative statement providing the following information: to being conducted. uested are necessary for the research project involved. Is are inadequate.
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9. Is this authoresearch pro If "Yes", (a) A descr (b) A show (c) A show  10. If all the a (a) The cc (b) The sp	orization to be usoject).  attach as EXHIBITatach as EXHIBITATION of the naturing that the committed that existing the existing the existing that existing the existing that existing the existing that existing the existing that existing the existing the existing that existing the existing that existing the existing that existing the existing the existing that existing the existing the existing that existing the existing that existing the existing the existing the existing the existing the existing that existing the existin	ed for providing communications facilities facilities and 9, are "No", of research and experimentation has a reasonable for the research and experimentation has a reasonable for the facilities for the facilities facilities facilities for the facilities facilit	following information: government concerned.  nications essential to a research project? (The radio communication is not the objective of the  Yes  No  arrative statement providing the following information: the being conducted. uested are necessary for the research project involved. Is are inadequate.  attach as EXHIBIT No, a narrative statement describing in detail the following: entation proposed including description of equipment and theory of operation.  and the contribution to the development, extension, or utilization of the
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9. Is this authoresearch profile "Yes", (a) A descr (b) A show (c) A show (c) A show (d) The specific to the s	orization to be used operation of the naturing that the comming that existing that existing that existing the program of exact, or is along him an estimate of the stan 2 years, girental impact?	ed for providing communications facilities are of the research project communications facilities are research and experimentation has a reason and already investigate and the length of time that will be the length of time in the of this application contact of this application contact are reasonable to the length of time in the of this application contact are reasonable to the length of time in the of this application contact are reasonable to the length of time that will be contact are reasonable to the length of time that will be contact are reasonable to the length of time that will be contact are reasonable to the length of time that will be contact are reasonable to the length of time that will be contact are reasonable to the length of time that will be contact are reasonable to the length of time that will be contact are reasonable to the length of time that will be contact and the length of time that will be contact are reasonable to the length of time that will be contact and the	following information: government concerned.  nications essential to a research project? (The radio communication is not the objective of the  Yes  No  arrative statement providing the following information: to being conducted. uested are necessary for the research project involved. Is are inadequate.  attach as EXHIBIT No.  a narrative statement describing in detail the following: entation proposed including description of equipment and theory of operation.  and conable promise of contribution to the development, extension, expansion, or utilization of the development.

List below transmitting equipment to be installed (if ex- MANUFACTURER		NO. OF UNITS
MOBILE TELESYSTEMS, INC	MCS-9120/56 INMARSAT-A	ľ
	Section 5 152?	
Is the equipment listed in Item 13 capable of station in	Yes	☐ No
Will the antenna extend more than 6 meters above the		
Will the antenna extend more than 6 meters above the building, or will the proposed antenna be mounted on	an existing structure other than a building?	∏Z No
	☐ Yes	UZ No
If "Yes", give the following (See Instruction 9):		
(a) Overall height above ground to tip of antenna is	meters.	
(b) Elevation of ground at antenna site above mean s	ea level is meters.	
(c) Distance to nearest aircraft landing area is		neters.
(c) Distance to nearest aircraft fanding area is		
(d) List any natural formations of existing man-made tend to shield the antenna from aircraft and there		orting building if any, giving heights in meters
(d) List any natural formations of existing man-made tend to shield the antenna from aircraft and there  (e) Submit as EXHIBIT No, a vertical above ground for all significant features. Clearly		orting building if any, giving heights in meters
(e) Submit as EXHIBIT No, a vertical above ground for all significant features. Clearly		orting building, if any, giving heights in meters aviation obstruction lighting already available.
(e) Submit as EXHIBIT No, a vertical above ground for all significant features. Clearly	profile sketch of total structure including supp indicate existing portion, noting particulars of	orting building if any, giving heights in meters
(e) Submit as EXHIBIT No, a vertical above ground for all significant features. Clearly  16. Applicant is (check only one box)	profile sketch of total structure including supp indicate existing portion, noting particulars of	orting building, if any, giving heights in meters aviation obstruction lighting already available.
(e) Submit as EXHIBIT No, a vertical above ground for all significant features. Clearly  16. Applicant is (check only one box)    Individual	profile sketch of total structure including suppy indicate existing portion, noting particulars of on Partnership  The of a foreign government?	orting building, if any, giving heights in meters aviation obstruction lighting already available.  Corporation
tend to shield the antenna from alteract and increase tend to shield the antenna from alteract and increase (e) Submit as EXHIBIT No, a vertical above ground for all significant features. Clearly  16. Applicant is (check only one box)  □ Individual □ Association □ Other (describe below)  17. Is applicant a foreign government or a representative  18. Has applicant or any party to this application had a	profile sketch of total structure including suppy indicate existing portion, noting particulars of on Partnership  The of a foreign government?	orting building, if any, giving heights in meters aviation obstruction lighting already available.  Corporation  No ad any application for permit, license or renewa
(e) Submit as EXHIBIT No, a vertical above ground for all significant features. Clearly  16. Applicant is (check only one box)  17. Is applicant a foreign government or a representative substitution of the property to this application had a substitution of the property to this application had a substitution.	profile sketch of total structure including suppy indicate existing portion, noting particulars of on Partnership  Per of a foreign government?  Yes  The Notice of Partnership on Partnership	orting building, if any, giving heights in meters aviation obstruction lighting already available.  Corporation  No
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tend to shield the antenna from afficiant and increase and increase and increase above ground for all significant features. Clearly  6. Applicant is (check only one box)  Individual Association  Other (describe below)  17. Is applicant a foreign government or a representative denied by this Commission?  If "Yes", attach as EXHIBIT No., a	profile sketch of total structure including suppy indicate existing portion, noting particulars of on Partnership  The of a foreign government?  Yes  The yes statement giving call sign of license or permit revoked or permit revo	orting building, if any, giving heights in meters aviation obstruction lighting already available.  Corporation  No and any application for permit, license or renew;  No revoked and relate circumstances.
(e) Submit as EXHIBIT No, a vertical above ground for all significant features. Clearly  16. Applicant is (check only one box)    Individual	profile sketch of total structure including suppy indicate existing portion, noting particulars of the profile of a foreign government?  Partnership  Per of a foreign government?  Yes  The yes  Statement giving call sign of license or permit in the permi	orting building, if any, giving heights in meters aviation obstruction lighting already available.  Corporation  No ad any application for permit, license or renew:  No revoked and relate circumstances.
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(e) Submit as EXHIBIT No, a vertical above ground for all significant features. Clearly  16. Applicant is (check only one box)    Individual	profile sketch of total structure including suppy indicate existing portion, noting particulars of the profile of a foreign government?  Partnership  Per of a foreign government?  Yes  The statement giving call sign of license or permit to the permit statement giving call sign of license or permit to the permit of the perm	orting building, if any, giving heights in meters aviation obstruction lighting already available.  Corporation  No and any application for permit, license or renew:  No revoked and relate circumstances.  No less pertaining to this application.  C(18 (FAX))  dentified.
tend to shield the antenna from afficiant and increase and increase above ground for all significant features. Clearly  16. Applicant is (check only one box)    Individual	profile sketch of total structure including suppy indicate existing portion, noting particulars of the item number of form requiring the exhibit in the item number of form requiring th	orting building, if any, giving heights in meters aviation obstruction lighting already available.  Corporation  And any application for permit, license or renew:  No revoked and relate circumstances.  No less pertaining to this application.  CHIS (FAX)  dentified.

#### 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)	If 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	n 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 Signed and dated this	f the electromagnetic spectrum as against the regulatory power of the USA.  Cypil 19 92.				
	Signed and dated this					
		Christopher O. Davis				
	Title Director applications Development	Check Appropriate Classification:				
	WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT. U.S.	☐ Individual Applicant				
	CODE, TITLE 18, SECTION 1001.	☐ Member of Applicant Partnership				
		Office of Applicant Corporation or Association				
		☐ Authorized Employee				

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

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.