APPROVED BY 0M8 3060-0065 Expires 12/31/95

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

L Applicant's Name and Post Office address				DO NOT WRITE IN THIS BLOCK				
	ress, city, state	a and ZIP Code. S	ee instruction	File No.				
No. 4)				4456-EX-PC-94				
Mobile T	[elesystems	s, Inc.		170001101				
	fessional [
Gaithers	sburg, MD	208/9	•					
Za). Application for (check only one box)				2(b). For Modification indicate below:				
New station	n 🗆 M	lodification of existing	g authorization	File No:	Call	Sign:		
3. Application f	or modification	on indicate whe	ther change is a	n addition or repla				
FREQUENCY	[] EI	MISSION	☐ POWER	LOCATION				
_								
OTHER PAR	TICULARS (describ	be below or in attact	hed EXHIBIT No			•		
4. Particulars of	Operation (se	ee instruction be	low)					
Frequency (state whether kHz or MHz) POWER				EMISSION	MODULATING SIGNAL	NECESSARY BANDWEDTH		
(A)	B)	(0)	(0)	(B)	(F)	(G)		
1636.5 to	25 W	37dBW	37dBW/4KHz	30K0F3E	12KHz	See below		
1645_MHz	(RHC)		<u>Peak</u>	-				
1636.5 to	25 W	37 dBW	37dBW/4KHz	2K40G1D	12KHz	See below		
1645 MHz	(RHC)		Peak			:		
·		 			ļ			

A) List each fo	requency or f	requency band	eparately. (If m	ore space is require	ed. attach as EXH	IBIT No.		
	•	-	•	minals Specify uni				
C) Insert maxi	lmum effectiv	re radiated power	or from the ant	enna (If pulsed emi	ssion, specify pea	k power).		
		(See definitions						
-	•		-	y. (See Section 2.201	of PCC Rules)			
		the type of mo						
	-	of keying in bau						
	m audio modu cy deviation	ilating frequency	y•					
		petition rate.						
		escribe in detail	in the space pr	ovided below.				
				in space provided	below.			

Note: Bandwidths established by international maritime satellite organization

for use in the Inmarsat system of satellite communications.

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March 1993

	mitter and transmitting antenna (ch	eck only one box)
FIXED/BASE	MOBILE	BASE AND MOBILE
5(b). If permanently located at	a fixed location, give below:	5(d). If mobile, describe the exact area of
State County	City or Town	operation
Number and street (or other inc	dication of location)	
5(c). Enter geographical coordinates exa	act to the nearest second	5(e). Enter geographical coordinates of the approximate
North Latitude	West Longitude	center of proposed area of operation (mobile applications) North Latitude West Longitude
0	o	O " O " "
·		
6. Is a directional antenna (oth-	er than radar) used?	
If "YES", give the following i	Information: XX YES	□ NO
(a) Width of beam in degrees	s at the half-power point 12 degr	rees
(b) Orientation in horizontal	plane (c) Orio	entation in vertical plane
	ed for fulfilling the requirement of	a government contract with an agency of the
United States Government?	☐ YES	NO KX
If "YES", attach as EXHIBIT No	oa narrative stateme	ent describing the government project,
agency and contact number.		
8. Is this authorization to be use	ed for the exclusive purpose of deve	eloping radio equipment for export to be employed
by stations under the Jurisdic	ction of a foreign government?	
	☐ YES	NO NO
If YES, attach as EXHIBIT No	the following infor	mation: Provide the contract number and the
name of the foreign government	nent concerned.	
is this authorization to be use cation is not the objective of	•	ential to a research project? (The radio communi-
cation is not the objective of	· · · · · · · · · · · · · · · · · · ·	XX no
		nt provding the following information:
	e of the research project being con-	
	unications facilities requested are no communications facilities are inadequ	ecessary for the research project involved.
to it showing time oxiding o	ommunications ractified at a made of	4400
O. If all the answers to Items 7.	8, and 9, are "NO", attach as EXHIBIT	No a narrative statement describing
in detail the following:		
and theory of operation.	research and experimentation propo	sed including description of equipment
(b) The specific objectives so	ight to be accomplished.	
(c) How the program of expen	rimentation has a reasonable promis	e of contribution to the development, extension,
expansion, or utilization of	f the radio art, or is along line not a	iready investigated.
Indofi		complete the program of experimentation proposed
in this application.		
(b) If less than 2 years, give the will be required.	e length of time in months that the	authorization requested in this application
<u> </u>	CANA - Washington - Washington	I - 11007 of the ECC Dules much that it may have a
 Would a Commission grant of significant environmental i 	mma12	ion 11307 of the FCC Rules, such that it may have a
_	. The second	XX NO
if you answer YES, submit	an Environmental Assessment requi	ired by Section 11311.
3. List below transmitting equi	pment to be installed (if experimen	tal so state)
MANUFACTURER	TYPE	NO. OF UNITS
Mobile Tologystoms I	nc. TCS- 9700	4
Mobile Telesystems, Ir	165-3700	•

Is the equipment listed	in Item 13 capable of	station identification pu	rsuant to Section 5.152	X	YES		NO
Will the antenna exter more than 6 meters about than a building?	nd more than 6 meter ove the building, or v	will the proposed antenna	be mounted on an ex	ng bu isting	ilding. structu	will it re oth	extener
			neters.				
(b) Elevation of ground	at antenna site abov	re mean sea level is	meters.				
(c) Distance to nearest	aircraft landing area	is		!	kilomete	215	
the opinion of the a	pplicant, would tend						in
•							
if any, giving height	ts in meters above gr	round for all significant f	eatures. Clearly indic				
Applicant is theck only	one box?						
INDIVIDUAL [ASSOCIATION	☐ PARTNERSHIP	CORPORATION				
OTHER (describe bel	low)						
							
s applicant a foreign go	vernment or a repre	sentative of a foreign go	vernment?		YES	XX	ИО
			ense or permit revoke	d or i	ad any YES	-E-171	NO.
		.a statement giving call s	ign of license or perm	ılt			
Vill applicant be owner	and operator of the	station?		X	YES		NO
	phone number (incli	ide area code) of person	who can best handle i	nquir	les pert	aining	3
o this application.							
	•						
	ADUSE CEDTIFIC ATIC						
PPLICANT ANTI-DRUG	ABUSE CERTIFICATION	N:					
y checking "YES", the are enial of federal benefit U.S.C. 862 or, in the cases association, no party to the entire of the cases of the	pplicant certifies that ts, that includes FCC se of a non-individu the applicant is subje	it, in the case of an indivi- benefits, pursuant to Sect- ial applicant (eg. corporat- ect to a denial of federal	don 5301 of the Anti- ion, partnership, or o benefits, that includes	Drug ther v	Abuse inincorp	Act of corate	1988 d
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y checking "YES", the appendix of federal benefit U.S.C. 862, or, in the cases occlation), no party to to that section. For the decision of the section of the decision of the	pplicant certifies that includes FCC se of a non-individu the applicant is subjectinition of "party" f	it, in the case of an indivi- benefits, pursuant to Sect- ial applicant (eg. corporat- ect to a denial of federal	don 5301 of the Anti- ion, partnership, or o benefits, that includes CFR 12002(b).	Drug ther v FCC	Abuse in incorporate benefit	Act of corate s, pur	1988 d suan
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	will the antenna extermore than 6 meters about than a building? If "YES", give the follow (a) Overall height above (b) Elevation of ground (c) Distance to nearest a constant the opinion of the anaeronautical hazard e) Submit as EXHIBIT N if any, giving height noting particulars of applicant is the configuration of the configuration of the configuration of the configuration for permit, if application for permit, if "YES", attach as EXHIB evoked and relate circultured in the configuration of the configuration of the configuration of the configuration for permit, if "YES", attach as EXHIB evoked and relate circultured in the configuration of the configu	Will the antenna extend more than 6 meter more than 6 meters above the building, or within a building? If "YES", give the following (see instruction (a) Overall height above ground to tip of an (b) Elevation of ground at antenna site above (c) Distance to nearest aircraft landing area (d) List any natural formations of existing of the opinion of the applicant, would tend aeronautical hazard of the antenna. The Submit as EXHIBIT No	Will the antenna extend more than 6 meters above the ground, or if more than 6 meters above the building, or will the proposed antenna than a building? YES W	Will the antenna extend more than 6 meters above the ground, or if mounted on an existimore than 6 meters above the building, or will the proposed antenna be mounted on an extend more than a building? YES	Will the antenna extend more than 6 meters above the ground, or if mounted on an existing but more than 6 meters above the building, or will the proposed antenna be mounted on an existing than a building? YES	Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure than a building? 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 sea level is meters. (c) Distance to nearest alreaft landing area is without the opinion of the applicant, would tend to shield the antenna from aircraft and thereby minimize to aeronautical hazard of the antenna. (e) Submit as EXHIBIT No a vertical profile sketch of total structure including supporting if any, giving heights in meters above ground for all significant features. Clearly indicate existing in noting particulars of aviation obstruction lighting already available. Applicant is (theck edg one bed) INDIVIDUAL ASSOCIATION PARTNERSHIP CORPORATION OTHER (describe below) The results of a foreign government or a representative of a foreign government? YES applicant or any party to this application had any FCC station license or permit revoked or had any publication for permit, license or renewal denied by this Commission? YES attach as EXHIBIT No a statement giving call sign of license or permit evoked and relate circumstances. Will applicant be owner and operator of the station? XYES ive name, title, and telephone number (include area code) of person who can best handle inquiries perticular and the proper in the	Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure out than a building? If YES, give the following (see instruction 9): (a) Overall height above ground to tip of antenna is

23 CERTIFICATION: Attention: Read this certification carefully before signing this application. THE APPLICANT CERTIFIES THAT: (a) Copies of FCC Rule 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; and (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. Signed and dated this Mobile Telesystems, Inc. (most correspond with name given on page 1) Name of Applicant Business Development Check appropriate classification: Individual applicant Member of applicant partnership Authorized employee Office of applicant corporation or association WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title

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 47 CFR 0.459 of the FCC Rules and Regulations. Your response is required to obtain this authorization.

18 Section 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47,

Section 312(a)(1), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

THE POREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(eX3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 98-511, DECEMBER 11, 1980, 44 U.S.C. 3507.