APPROVED BY OMB 3060~0065 Expires 9/30/98

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

Applicant's Name and Post Office address     (Street address, city, state, and ZIP Code. See Instruction     No. 4)				DO NOT WRITE IN THIS BLOCK File No.				
Motorola S 2501 S. Pr Chandler,	ice Road		itions, Ind	c .				
2(a). Application	for (check c	only one box)		2(b). For Modificati	on indicate belov	<b>v</b> ;		
New station	X Mo	odification of existi	ng authorization	File No. 6132-EX	File No: 6132-EX-T/L-98 Call Sign: WA2XRQ			
3. Application for placement to it	r Modificatio ndicate whet	n: Check the b her the change	ox beside all pa is an addition	articulars to be modifi or a replacement of j	led. Check either parameters in the	addition or re- current authorization.		
K FREQUENCY -		EMISSION	_	POWER -	Loc	ATION -		
addition or $\square$	replacement?	☐ addition o	r   replacement?	addition or r	enlacement?	ddition or replacement?		
				attached EXHIBIT No	,			
4. Particulars of	Operation (se	e instruction c	e10W)		<u> </u>			
Frequency (state whether kHz or MHz)	POWER		EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (kHz)			
(A)	(B)	(C)	(D)	(E)	(F)	(G)		
1990-2160MHz	10W	40W	Peak		NON	N/A		
2160-2160.01MHz	10W	40W	Peak		NON	N/A		
2165-2181MHz	10W	40W	Peak		NON NON	N/A N/A		
2 <u>185-2190MHz</u> 2199.99-2200MHz	10W 10W	40W 40W	Peak Peak		NON	N/A		
21 ) <u>5.33 2200m12</u>		100	104					
(B) Insert maxi (C) Insert maxi units.	mum R.F. out mum effectiv	put power at the ve radiated pov	ne transmitter t wer from the a	more space is require erminals. Specify unintenna (if pulsed emi	lts.			
(E) List each ty (F) Insert as ap (1) the max (2) maximum (3) frequency (4) pulse du	pe of emission propriate for imum speed of maudio moduley deviation ration and re-	r the type of m of keying in be ulating frequen of carrier; spetition rate.	or each frequencedulation: auds; acy;	ncy. (See Section 2.20) provided below.				
(G) Describe ho	w the necess	ary bandwidth	was determine	ed in space provided	below. FC	C Form 442 - Page 2 March 1 <b>996</b>		

- г	T FIXED/BASE	MOBILE		only one box to indicate BASE AND MOBILE	e type of operation):
	<b>_</b>	<u> </u>			
5(b). It State	County	at a FIXED location, give below:  City or Town		5(c). If mobile, describe operation	e the exact area of
	- County			Mounted on an a	aircraft
Numbe	er and street (or other	indication of location)		operating with	nin the conus.
5(b)(1).	Enter geographical coordiante	es exact to the nearest second (see instr	uction 10)	5(c)(1)Enter geographical coccenter of mobile operation	
North L	atitude (DD-MM-SS)	West Longitude (DD-MM-SS)		North Latitude	West Longitude
0	1 11	0 ,	H	0 "	0 "
5(d). D	atum (see instruction 1	0):	27	NAD 83	
		other than radar) used? YES		NO	
	YES", give the following	_	<i>C</i> 0		
(h)	Orientation in horizon	rees at the half-power point tal_plane	(a) Oploate	ation in vertical plane	
nter	na will be mou	nted on the underside	of an	aircraft & wil	l be steerable
7. Is t	his authorization to be	used for fulfilling the requirem	ent of a g	overnment contract wi	th an agency of the
Un	ited States Governmen	t? YES	***	NO	
	YES", attach as EXHIBIT ency and contact numb	F Noa narrative :	statement	describing the government	nent project,
	<del> </del>			ing radio conincent Co	or export to be employ
9. Is t	his authorization to be	used for the exclusive purpose	of develor	ang radio equipment re	orborr to be employ
8. Is t	his authorization to be stations under the juri	used for the exclusive purpose isdiction of a foreign governmen	it?		or employ
by If " nar	stations under the juri YES", attach as EXHIBIT me of the foreign gove	isdiction of a foreign governmen YES No the followingernment concerned.	nt?	NO tion: Provide the contra	act number and the
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14.	Is the equip	ment listed in Ite	em 13 capable of static	on identification pursua	nt to Section 5.152?	YES XX NO		
15.		6 meters above th		ve the ground, or if mountee proposed antenna be no NO NO				
		If "YES", give the following (see instruction 9):  (a) Overall height above ground to tip of antenna is meters.						
	(b) Elevation	n of ground at ar	itenna site above me	an sea level is	meters.			
	(c) Distance to nearest aircraft landing area is kilometers.							
	the opin aeronaut	lon of the applicatical hazard of th	int, would tend to sh eantenna.	nade structures (hills, tre ield the antenna from a	ircraft and thereby n	ninimize the		
	Transmit aircraft	ting equipm which will	ent including be operated	the antenna wilup to 30,000 ft	ll be mounted MSL.	on an		
	if any, g	giving heights in	meters above ground	al profile sketch of total I for all significant feat ting already available.				
16.	Applicant is	S: (Check only one	boxi		· <del>··</del>			
	☐ INDIVI	DUAL   ASS	SOCIATION [	PARTNERSHIP	CORPORATION			
	OTHER	(describe in space	e provided below)					
	<del>-</del>							
17.	Is applicant	a foreign govern	nment or a represent	ative of a foreign gover	rnment?	YES X NO		
18.				i any FCC station license by this Commission?	e or permit revoked (	or had any		
				atement giving call sign	of license or permit			
	revoked an	id relate circumsta	inces.	<u> </u>	·			
19.	Will applies	ant be owner and	operator of the stati	ion?	**************************************	YES NO		
20.			ne number (include : es pertaining to this	area code), and Internet application.	e-mail address (if app	plicable) of person		
	David R.	Carroll, M	lanager of Spe	ctrum Technonlg	y (602) 675 <b>-</b> 16	03		
21.	By checkin he or she is conviction e.g., corpora	s not subject to a pursuant to Section tion, partnership a denial of federa	idual applicant certif denial of federal ber on 5301 of the Anti-l or other unincorpora	Ties that he or she is elignefits, including FCC being Abuse Act of 1988, that association, certifies to that section. For definitions	nefits, as a result of a 21 U.S.C. 862. A non-in s that no party to the altion of a "party" for	a drug offense ndividual applicant, e application is		
22	List below	all exhibits in nu	merical sequence and	i the item number of fo	rm requiring the ext	nibit identified.		
EX	HIBIT NUMBER		EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM		
		ITEM NO. OF FORM	EXHIBIT HOWING			TIEN NO. OF FUND		
	1	9	[Allight Howards			THEN NO. OF PUNY		
	1		EXHIBIT ROMBER			THEM NO. OF FORM		
	1		EXHIBIT ROBBES			TIEM NO. OF FORM		

#### 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 _	91 -	day of	October	. 19 <u>98</u>
Name of Applicant	Motorola Sate	llite Comm	unications, Inc.	
	Imust co	errespond with name	given on page 11	
By <u>David R. (</u>	Carroll		will Care	sl
$\ell_I$	orint)		(signature)	
Title Manager of	Spectrum Techno	logy		
Check appropriate classific	ation:		•	
Individual applicant	Member of applican	t partnership		
X Authorized employee	Office of applicant	corporation or as	ssociation	
WILLFUL FALSE STATEMENTS MA 18 Section 1001), AND/OR REVO Section 312(a)(1), AND/OR FORFE	CATION OF ANY STATION	LICENSE OR CON		•

## 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 specified 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 by 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.

Public reporting burden for this collection of information is estimated to average four (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 the burden to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0065), Washington, DC 20554. DO NOT send completed applications to this Individuals are not required to respond to this collection unless it displays a currently valid OMB control number,

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. 96-611, DECEMBER 11, 1980, 44 U.S.C. 9507.