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

<ol> <li>Applicant's Name and Post Office address         (Street address, city, state, and ZIP Code. See instruction No. 4)     </li> </ol>	DC File No.	NOT WRITE IN T	HIS BLOCK	
Motorola Satellite Communications, Inc. 2501 S. Price Road Chandler, AZ 85248	6132-EX-PL-98			
ondidatel, in the state				
2(a). Application for (check only one box)	2(b). For Modification indicate below:			
New station Modification of existing authorization	File No.: Call Sign:			
3. Application for Modification: Check the box beside all par placement to indicate whether the change is an addition of	ticulars to be modif	ied. Check either	addition or re-	
FREQUENCY - EMISSION -	POWER -	Loc	ATION -	
OTHER PARTICULARS - addition or replacement? (Describe below or in  4. Particulars of Operation (see Instruction below)	attached EXHIBIT No	)		
Frequency (state POWER	EMISSION	MODULATING	NECESSARY BANDWIDTH	
(B) (C) (D)	(E)	SIGNAL (F)	(KHz) (G)	
2160-2200 10W 40W Peak		NON	N/A	
MHZ 198-2025 10W 40W Peak		NON	N/A	
> see amendments				
(A) List each frequency or frequency band separately. (If the linear maximum R.F. output power at the transmitter temporary to the serious maximum effective radiated power from the analysis.	rminals. Specify uni	ts.	)	

	nitter and transmitting antenna	(check only or	ne box to indicat	e type of operation):
FIXED/BASE	MOBILE		AND MOBILE	Alt
b). If permanently located at a tate County	A FIXED location, give below:  City or Town		i mobile, describ operation	e the exact area of
tate County	City of 10 wil			aircraft operating
umber and street (or other inc	lication of location)	W	ithin the co	nus.
	¥,			
b)(1). Enter geographical coordiantes e	exact to the nearest second (see instruction	011 10)	• • •	ordinates of the approximate (see instruction 10.)
orth Latitude (DD-MM-SS)	West Longitude (DD-MM-SS)		Latitude	West Longitude
0 "	o , , , , , , , , , , , , , , , , , , ,	o	, "	0 "
i). Datum (see instruction 10):			83	
Is a directional antenna (oth		☐ NO		
If "YES", give the following (a) Width of beam in degree	s at the half-power point 60			
(b) Orientation in horizontal	plane (c)	Orientation in	n vertical plane	
a antenna will be moun	ited on the underside of	an aircraft	<u>: &amp; will be s</u>	steerable 600 from nac
Is this authorization to be us United States Government?	sed for fulfilling the requiremen		nent contract w.	ith an agency of the
	☐ YES Jo a narrative sta	X NO	ing the govern	ment project
agency and contact number.	10 a narrative sta	tement descri	and the governi	monv progest
Is this authorization to be us	sed for the exclusive purpose of iction of a foreign government?	developing ra	dio equipment fo	or export to be employed
by stations under the jurisd.	☐ YES	X NO		
If "YES", attach as EXHIBIT N name of the foreign govern	To the following in the ment concerned.	nformation: P	rovide the contra	act number and the
is this authorization to be us cation is not the objective o	sed for providing communication of the research project).	s essential to	a research projec	ct? (The radio communi-
If "YES", attach as EXHIBIT 1	No a narrative sta	tement provdi	ng the following	g information:
(a) A description of the natu	re of the research project being munications facilities requested a	conducted. Tre necessary	for the research	project involved.
(c) A showing that the confi	communications facilities are in	adequate.		
			1 0 70 775	ative statement describing
in detail the following:	7, 8, and 9, are "NO", attach as EXH			
	research and experimentation	proposed inclu	ding description	of equipment
and theory of operation.  (b) The specific objectives s	ought to be accomplished.			
(c) How the program of exp	perimentation has a reasonable pr	romise of cont	ribution to the d	levelopment, extension,
expansion, or utilization	of the radio art, or is along line eight of time that will be require	not already in	the program of	experimentation proposed
in this application:	2_vears			
(b) If less than 2 years, give t	he length of time in months tha	t the authoriza	tion requested i	n this application
. Would a Commission gran	t of this application come within impact (see instruction 11)?			s, such that it may have a
	No an Enviro	YES YES	X NO ssment as require	ed by Section 1.1311.
3. List below transmitting eq MANUFACTURER	quipment to be installed (if exper	rimental, so sta EL <b>NUMBER</b>	.te):	NO. OF UNITS
Motorola	Exper	imental		1
	nt fabricated by Motorola	. ucina sta	ndard RF and	digital components.

14.				on identification pursua		☐ YES	NO X
15.	Will the antennemore than 6 me than a building	eters above th	re than 6 meters abore building, or will th	ve the ground, or if mou e proposed antenna be YES . NO	inted on an existing mounted on an exist	; building, v ting structur	vill it exter re other
	If "YES", give th (a) Overall heig	ne following ( tht above grou	see instruction 9): and to tip of antenna	is meter	S.		
	(b) Elevation of ground at antenna site above mean sea level is meters.						
	(c) Distance to nearest aircraft landing area is kilometers.						
	(d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft and thereby minimize the aeronautical hazard of the antenna.						
	Transmitt will be op	ing equipme perated up	nt including the to 30,000 ft MSI	e antenna will be r	nounted on an ai	ircraft w	hich
•	if anv. givir	ng heights in	meters above ground	al profile sketch of total for all significant feat ting already available.	structure including ures. Clearly indicat	supporting te existing	building, portion,
16.	Applicant is: /	Check only one	boxl				
	☐ INDIVIDUA	al 🗌 ass	SOCIATION [	] PARTNERSHIP	CORPORATION		
	OTHER (de	scribe in space	e provided below)				
17.	Is applicant a f	oreign govern	nment or a represent	ative of a foreign gove	rnment?	YES	X NO
18.	Has applicant o	or any party to permit, licens	o this application had se or renewal denied	i any FCC station licens by this Commission?	e or permit revoked	L YES	X no
	If "YES", attach revoked and re	as EXHIBIT N elate circumsta	oa st inces.	atement giving call sign	n of license or perm	it	
<u></u>	Will applicant	be owner and	operator of the stat	lon?		Y YES	□ NO
20.	who can hest t	andle inquirie	es pertaining to this	area code), and Internet application. um Technology (602		.pplicable) o	f person
21.	APPLICANT AN	TI-DRUG ABUS	E CERTIFICATION:				
	he or she is no conviction purs	t subject to a suant to Section	denial of federal beam 5301 of the Anti-	ries that he or she is eli- nefits, including FCC be Drug Abuse Act of 1988, ated association, certifie	nefits, as a result of 21 U.S.C. 862. A non- s that no party to t	individual he application	ense applicant, on is
	subject to a de see 47 CFR 1.200	nial of federa	l benefits, pursuant	to that section. For defin	nition of a "party" f	or these pur	rposes,
22.	List below all	exhibits in nu	merical sequence and	d the item number of fo	orm requiring the ex	xhibit identi	lfied.
EX	HIBIT NUMBER ITE	M NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	iTEM	NO. OF FORM
	1	9					

### 28. 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:
  - (i) 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
  - (8) 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 March 25th day of March 1998	_
Name of Applicant David R Castoll	
(must correspond with name given on page 1)	
By David R Carroll Sun (signature)	
(print) (signature)	
Title Manager of Spectrum Technology	
Check appropriate classification:	
☐ Individual applicant ☐ Member of applicant partnership	
Authorized employee Office of applicant corporation or association	
VILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title	
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).	_
NOTIFICATION TO INDIVIDUALS LINDER PRIVACY ACT OF 1074	

## 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 address.** 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. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.