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

1. Applicant's Name and Post Office address (Street address, city, state, and ZIP Code. See instruction  No. 4) Southwest Research Institute 6220 Culebra Road San Antonio, TX 78238-5766			DO NOT WRITE IN THIS BLOCK File No.  0211-EX-PL-1999				
2(a). Application	for (check	only one box)		2(b). For Modificat	ion indicate belov	v:	
New station			File No.: Call Sign:				
<ol> <li>Application for placement to i</li> </ol>	r Modification ndicate whe	on: Check the box ther the change is	t beside all pa s an addition (	rticulars to be modif or a replacement of ;	led. Check either parameters in the	addition or re- current authorization	
FREQUENCY -		EMISSION -		X POWER -	X Loc	ATION -	
4. Particulars of Operation (see instruction below)  Frequency (state whether 4Hz or MHz)  POWER		EMISSION	MODULATING NECESSARY BANDWIDTH				
(A)	(B)	(C)	(D)	(E)	(F)	(G)	
(A) List each fr	mum R.F. out	put power at the	transmitter te	more space is require rminals. Specify uni tenna (If pulsed emis	ts.		

5(2)	Proposed location of trans	nitter and transmitt	ina	antonno (o	hoole	only one box to indicate type of operation):
U(a)	FIXED/BASE	MOBILE	nng	antenna (c		BASE AND MOBILE
5(b)	. If permanently located at	a FIXED location, gi	ve be	elow:		5(c). If mobile, describe the exact area of
Stat		City or Town				operation
Nui	nber and street (or other inc	lication of location)		***************************************		GET
		\$				SEE EXHIBIT 2
5(b)	(1). Enter geographical coordiantes e	xact to the nearest seco	and (se	ee instruction	10)	5(c)(1)Enter geographical coordinates of the approximate center of mobile operation (see instruction 10.)
Nort	n Latitude (DD-MM-SS)	West Longitude (DD-M	M-SS)			North Latitude West Longitude
	0 "	o	,	"		0 " 0 "
5(d)	. Datum (see instruction 10):			NAD 27	×	NAD 83
	is a directional antenna (oth		? <b>k</b>	YES		NO
			poir	nt <u>6° el</u> e	eva t	ion 3° azimuth vertical polarization
	b) Orientation in horizontal	plane3°		(c) O		ation in vertical plane 6°
				***		
	Is this authorization to be us United States Government?	ed for fulfilling the	e req	uirement o		government contract with an agency of the
			Ш	YES	X	NO
	If "YES", attach as EXHIBIT Nagency and contact number.	oa	narra	ative stater	nent	describing the government project,
					velop	oing radio equipment for export to be employe
	by stations under the jurisdi	ction of a foreign g	govei		E-1	
	O WITTON AND A DEVILIDITY AT			YES	K	NO
	name of the foreign govern		e i oi	iowing ini	orma	tion: Provide the contract number and the
	is this authorization to be us cation is not the objective of				essent	tial to a research project? (The radio communi-
	IC "VEC" attach as EVUIDIT N		LXI	YES	لاء	NO
	(a) A description of the natu					provding the following information:
		nunications facilities	req	uested are	nece	ssary for the research project involved.
		8, and 9, are "NO", a	ttach	as EXHIBI	Γ No.	a narrative statement describing
	in detail the following:  (a) The complete program of and theory of operation.	research and exper	imer	ntation pro	posed	including description of equipment
	(b) The specific objectives so	ught to be accomplis	shed.			
		erimentation has a r	easo	nable prom		of contribution to the development, extension, ady investigated.
11(a)	Give an estimate of the ler in this application: _2 ye				o con	nplete the program of experimentation propos
(b		e length of time in	mor	iths that th	ie aut	thorization requested in this application
12.		of this application	come	within Se	ction	1.1307 of the FCC Rules, such that it may have
	<del>-</del>	<del>-</del>			لــا ental	YES K. NO I Assessment as required by Section 1.1811.
13.	List below transmitting equi	ipment to be install	led (1	if experime		
		•				

SEE EXHIBIT 4

14.	Is the equi	pment listed in It	em 13 capable of stati	on identification purs	uant to Section 5.152?	YES YES	XX NO		
15.	Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extends more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building?  YES  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 sea level is meters.								
	(c) Distanc	(c) Distance to nearest aircraft landing area is kilometers.							
	the opi		ant, would tend to sh	made structures (hills, ideld the antenna from					
	if any,	giving heights in	meters above ground	al profile sketch of to I for all significant fe ting already available.	atures. Clearly indica				
16.	Applicant	S:	boxi						
	☐ INDIV	IDUAL	SOCIATION [	PARTNERSHIP	☐ CORPORATION				
	X OTHER	(describe in space	e provided below)						
		st Research In		for profit resea	arch and develop	ment			
17.	Is applican	a foreign gover	nment or a represent	ative of a foreign gov	ernment?	☐ YES	xx no		
18.	application	Has applicant or any party to this application had any FCC station license or permit revoked or had any application for permit, license or renewal denied by this Commission?							
		If "YES", attach as EXHIBIT No, a statement giving call sign of license or permit revoked and relate circumstances.							
19.	Will applic	ant be owner and	l operator of the stati	on?		X YES	П ио		
20.			ne number (include a es pertaining to this	area code), and Interne application.	t e-mail address (if a	applicable) of	`person		
	Mr. Mich	ael James Lar	son (210) 509-464	49					
21.	APPLICANT ANTI-DRUG ABUSE CERTIFICATION:  By checking "YES", the individual applicant certifies that he or she is eligible for this license. This requires that he or she is not subject to a denial of federal benefits, including FCC benefits, as a result of a drug offense conviction pursuant to Section 5301 of the Anti- Drug Abuse Act of 1988, 21 U.S.C. 862. A non-individual applicant, e.g., corporation, partnership or other unincorporated association, certifies that no party to the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these purposes,								
 22.	List below	all exhibits in nu	merical sequence and	the item number of f	form requiring the ex	X YES	led.		
	IBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER		O. OF FORM		
	1	4A - 4G							
	2	5C							
	3	9							
	4	13							
			<del></del>		†				

## 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
- (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	21st	day of	June	, 19 <u>99</u>
Name of Applicant South	west Researc	n Institute		
	l	must correspond with name	given on page 11	
By <u>Louis Rodrigu</u>	ez		J-	
lprint	,		lsignatu	re)
Title Deputy General C	ounsel			
Check appropriate classification	n:			
Individual applicant	Member of a	oplicant partnership		
Authorized employee	Office of app	licant corporation or as	sociation	
WILLFUL FALSE STATEMENTS MADE 18 Section 1001), AND/OR REVOCATI Section 312(a)(1), AND/OR FORFEITUR	ON OF ANY STA	TION LICENSE OR CONS	•	•

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