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) Southwest Research Institute 6220 Culebra Road San Antonio, Texas 78238			DO NOT WRITE IN THIS BLOCK File No. 0161-EX-FL-2001			
a). Application	for (check o	nly one box)		2(b). For Modific	ation indicate below	w:
X New station Modification of existing authorization			The New			
Application for placement to i	or Modification	n: Check the be	ox beside all par is an addition o	File No.: ticulars to be more or a replacement of	iified. Check either	Sign: addition or re- current authorizatio
FREQUENCY -		EMISSION -	_	POWER -	Loc	ATION -
_ addition or _	replacement?	addition or	r [] replacement?	addition or	replacement?	addition or Treplacement
	Operation (se	e instruction b	elow)		ACCUR ATTAC	NIEGEGATIV PANDIMIDTI
frequency (state whether kHz or MHz)		POWER		EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (KHz)
(A)	(B)	(C)	(D)	(E)	(F)	(G)
4.5 MHz 5.8 MHz	20W 20W	20	Peak Peak	NON NON	0,0,1Hz,0 0,0,1Hz,0	l kHz l kHz
6.8	20	20	Peak	NON	0,0,1Hz,0	1 kHz
7.5	20	20	Peak	NON	0.0.1Hz.0	1 kHz
		 			- 	
insert max	imum R.F. out	put power at th	he transmitter te	erminals. Specify	uired, attach as EXF units. emission, specify pe	
Dist each to Insert as a	ype of emission of the propriate for	'(See definition on separately f r the type of m of keying in be	or each frequent odulation:	cy. (See Section 2	.201 of FCC Rules.)	
	im audio modi	ulating frequen	ncy;			
(4) pulse di For comple	uration and re	epetition rate. lescribe in deta	all in the space p			CC Form 442 - Page
				d in space provides than 0.1	od boto w.	March 199 1 kHz bandwidt

will sufficiently contain transmission and keep spacing from interferers.

in). Proposed location of trans		nna (check		e type of operation):
FIXED/BASE	MOBILE		BASE AND MOBILE	
5 lb). If permanently located a		:	5(c). If mobile, describ operation	e the exact area of
State County TX See Exhibit 2	City or Town See Exhibit 2		VP 01 0 11011	
Number and street (or other in				
See Exhibit 2				
			5/c)(1)Enter geographical co	ordinates of the approximate
5(b)(1). Enter geographical coordinates	exact to the nearest second (see in	struction 10)	center of mobile operation	•••
\orth Latitude (DD-MM-SS)	West Longitude (DD-MM-SS)		North Latitude	West Longitude
o ",	0 '		0 ' "	0 "
5(d). Datum (see instruction 10):	AD 27	NAD 83	
E. Is a directional antenna (of		s 🗵	NO	
If "YES", give the following	; information; see at the half-power point			
	al plane		ation in vertical plane	
7. Is this authorization to be	,	· -		ith an agency of the
United States Government	I. I.		NO	
agency and contact number	No a narrative	e statement	describing the govern	ment project,
E. Is this authorization to be	used for the exclusive purpos	e of develor	oing radio equipment f	or export to be employed
by stations under the juris	diction of a foreign governm	ent?		
	∐ YE		NO	
If "YES", attach as EXHIBIT name of the foreign gover	No the follow	ing informa	tion: Provide the contr	act number and the
Hame of the foldight Boyer	illiment control near			
E. Is this authorization to be	used for providing communic	ations essen	tial to a research proje	ot? (The radio communi-
cation is not the objective	of the research project).	s X	NO	
If "YES", attach as EXHIBIT	Noa narrative			g information:
-	ture of the research project h	_		
	nmunications facilities reques g communications facilities ar			project involved.
-	_	<u>.</u>	_	
13. If all the answers to Items in detail the following:	7, 8, and 9, are "NO", attach as	EXHIBIT No.	a narra	ative statement describing
(a) The complete program	of research and experimentat	ion proposed	i including description	of equipment
and theory of operation	n. sought to be accomplished.		*	
(c) How the program of ex	sperimentation has a reasonab			levelopment, extension,
	of the radio art, or is along			
in this application:	2 years	quirea to co	mpiete the program of	experimentation proposed
••	the length of time in months	— s that the au	thorization requested i	n this application
	nt of this application come w al impact (see instruction 11)?	_		s, such that it may have a
-	IT Noan Er	L nvironmenta	YES X NO	ed by Section 11811.
15. List below transmitting MANUFACTURER	equipment to be installed (if e	experimenta MODEL NUM		NO. OF UNITS
Kalmus HF Amp		150CR		6
HP Sig Gen		8642		6
Dipole Antenna				6
-				

is the equip	ment listed in Item	18 capable of static	on identification pursus	nt to Section 5.152?	YES	NO X
	6 meters above the	building, or will th	ve the ground, or if more proposed antenna be			
	ve the following (se height above groun		is mete	rs.		
(b) Elevatio	n of ground at ante	nna site above me	an sea level is	meters.		
(c) Distance	to nearest aircraft	landing area is _			kilometer	s.
the opin		t, would tend to sh	nade structures (hills, trield the antenna from			
if any,	giving heights in m	eters above ground	al profile sketch of tou i for all significant fea uting already available.			
Applicant i	LSC. (Check only one bo	# <i>1</i>				
☐ INDIV	idual 🗌 asso	CIATION [PARTNERSHIP	CORPORATION		
5						
X OTHER	R (describe in space	btoxided pelow)				
			oment Organization		☐ YES	1231 NO
Has applica	int or any party to	this application ha	d any FCC station licen by this Commission?	se or permit revoked	or had any	
	tach as EXHIBIT No. nd relate circumstan		tatement giving call sig		LJ YES	1021 NO
Will applic	ant be owner and o	perator of the stat	tion?	1	X YES	□ NO
	e, title, and telephone est handle inquiries		area code), and Interne	e-mail address (if ap	plicable) of	person
	-		ist, (210) 522-34	75 drowleyenia	ard anna	a armei
APPLICANT By checkin he or she conviction eg, corpor	ANTI-DRUG ABUSE ng "YES", the individual is not subject to a depursuant to Section ation, partnership of a denial of federal	CERTFICATION: tual applicant certification of federal be a 5801 of the Anti- or other unincorpor	fies that he or she is elements, including FCC because Act of 1988 ated association, certifito that section. For definition of the control of	igible for this license, enefits, as a result of a 21 U.S.C. 882. A non- i es that no party to the inition of a "party" for	This require drug offer a drug offer ndividual a e application	res that nse pplicant, n is
List below	all exhibits in num	erical sequence an	d the item number of f	orm requiring the ex	hibit identli	îled.
EXHIBIT NUMBER	ITEM NO. OF FORM	REBINUM TIBINKE	LIEM ND. OF FORM	EXHIBIT NUMBER	ITEM N	O. OF FORM
1	10					
2	5				1	
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			<u> </u>			

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:
 - (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
 - (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.

~		20th day of June	.19 2001
Name of Applicant	Southwest Research	Institute	
By John F. Spr	lause	correspond with name given on	n sage 1)
TitleCFO & Vic	e President, Finance		(signature)
Individual applica	nt Member of applic	cant partnership	
Authorized employ	yee Office of applica	nt corporation or association	n
	EVOCATION OF ANY STATIO	ON LICENSE OR CONSTRUCT	OR IMPRISONMENT (U.S. Code, Title ION PERMIT (U.S. Code, Title 47,

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 1984, as amended, and specified by Section 808 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** anddress. 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. 98-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(9), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 98-511, DECEMBER 11, 1980, 44 U.S.C. 3507.