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

Applicant's Na	me and Post	Office address		no	NOT WRITE IN T	HIS BLOCK
(Street address	city state a	and ZIP Code, Sec	e instruction	File No.		
No. 4) MAKI	00/05/66/	SCIBOCIO		VIII C	101 700	λ
55	0.17			1 0/49-61	X-FL-2001	U
4,44	nerring /	4611				
BLACK.	s bus,	VA 2406	/			
a). Application	for (check or	nly one box)	ine-my	2(b). For Modification	on indicate belov	v;
New station	Mod	nly one box) forming is charge ification of existing	authorization 4	File No.: 6/05-12X	-ML-1998 Call	Sign: XA2X/K
Application for placement to in	Modification dicate wheth	: Check the box er the change is	beside all par s an addition o	rticulars to be modific or a replacement of p	ed. Check either arameters in the	addition or re- current authorization
FREQUENCY -		EMISSION -		POWER -	Loc	ATION -
addition or	replacement?	addition or	replacement?	addition or 🗌 re	placement?	ddition or 🔲 replacement
		•				
			anna balani ay la	attached CVUIDIT No.	1	, '
OTHER PARTICULA	RS - addition or	replacement? (Desc	ribe below of in	attached Exhibit No.	in daymetim	Contein se
יאו און	457 1	vi 5+.11	current.	vattached, EXHIBIT No.	or replace	coments will
be	node.					
Particulars of (peration (see	instruction bel	ow)	T		T
Frequency (state hether kHz or MHz)		POWER		EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTI (KHz)
(A)	(B)	(C)	(D)	(E)	(F)	(G)
						<u> </u>
	,					
						<u> </u>
ı) List each fre	auency or fi	requency band s	separately. (If	more space is require	d, attach as EXH	IBIT No
) Insert maxir	num R.F. outp	ut power at the	transmitter to	erminals. Specify unit	ts.	
:) Insert maxir	num effective	e radiated powe	er from the an	tenna (If pulsed emis	sion, specify pea	k power). Specify
units.						
		(See definitions		or /Son Sontion 0001	of ECC Pulsa)	
		the type of mod		cy. (See Section 2201	of rec Rules.	
		f keying in bau				
	-	lating frequency				
•	y deviation o	•				
_	ation and rep		In the	mandad belam		
		escribe in detail ry bandwidth v		provided below. d in space provided h	pelow. FC	C Form 442 - Page March 199
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

- exhibit 1

_	• <u> </u>				
	15 a). Proposed location of FIXED/BASE	transmitter and transmit MOBILE	ting antenna (check	only one box to indicat BASE AND MOBILE	e type of operation):
	5 b). If permanently locate	ed at a FIXED location, gl	ve below:	5(c). If mobile, describ	e the exact area of
-	State County	City or Town		operation	
	Number and street (or oth	er indication of location)		-	
	5(b)(1). Enter geographical coordi	antes exact to the nearest sec	ond (see instruction 10)	5(c)(1)Enter geographical co	ordinates of the approximate
	\orth Latitude (DD-MM-SS)	West Longitude (DD-M	M-00)	center of mobile operation North Latitude	(see instruction 10.) West Longitude
	0 ,	0	, , , ,	0 , "	1
1					
	5(d). Datum (see instruction		□ NAD 27 □	NAD 88	
	E. Is a directional antennal if "YES", give the follow		? 🗌 yes 🔲	NO	
	f	egrees at the half-power	point		
	(b) Orientation in horiz	ontal plane	(c) Orient	ation in vertical plane	
L	7. Is this authorization to	be used for fulfilling th	e requirement of a s	rovernment contract wi	th an agency of the
	United States Governm	ent?	r yes □	NO	
	If "YES", attach as EXH	BIT Noa	narrative statement	describing the government	nent project,
	agency and contact nu	mber.			
	Is this authorization to by stations under the ;	urisdiction of a foreign		ong radio equipment 10	or export to be employed
			☐ YES ☐		
	name of the foreign go	BIT No th overnment concerned.	e following informa	tion: Provide the contra	ct number and the
	 Is this authorization to cation is not the object 	be used for providing co ive of the research proje	mmunications essen	tial to a research projec	t? (The radio communi-
	If "YES", attach as EXHI	BIT Noa		provding the following	information:
	(b) A showing that the	communications facilities	requested are nece	ssary for the research	project involved.
	12. If all the answers to Ite in detail the following:				
	and theory of opera			l including description	of equipment
	(b) The specific objective (c) How the program of	ves sought to be accompli experimentation has a m	shed. reasonable promise d	of contribution to the de	evelopment, extension.
	expansion, or utiliza	tion of the radio art, or i	s along line not alre	ady investigated.	
	<pre>18(a). Give an estimate of t in this application:</pre>	3 7 4rs			
	will be required:	ive the length of time in			
		grant of this application ental impact (see instruct			such that it may have a
		HIBIT No.	أسنا	YES NO Assessment as required	i by Section 1.1311.
	MANUFACTURER	g equipment to be instal	MODEL NUMB		NO. OF UNITS
	NO N	en gransmoth) {		
	W.11 3	e installed			

	Is the equipment listed in Item 18 capable of station identification pursuant to Section 5.152? YES NO
.E.	Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extends 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) 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.
	(e) Submit as EXHIBIT No a vertical profile sketch of total structure including supporting building, if any, giving heights in meters above ground for all significant features. Clearly indicate existing portion, noting particulars of aviation obstruction lighting already available.
1 3.	Applicant is (Check only one box)
	☐ INDIVIDUAL ☐ ASSOCIATION ☐ PARTNERSHIP ☐ CORPORATION
	OTHER (describe in space provided below)
	VINSIMIA PULYTELANIC PRATITION > STATE UNIVERSITY (VA TRUH)
	111 == 111
	CVA TRUM
17.	Is applicant a foreign government or a representative of a foreign government?
15.	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? YES NO
	If "YES", attach as EXHIBIT No a statement giving call sign of license or permit revoked and relate circumstances.
15.	Will applicant be owner and operator of the station?
20.	Give name, title, and telephone number (include area code), and Internet e-mail address (if applicable) of person
D	who can best handle inquiries pertaining to this application. The chapman professor, 5-40 231 - 5-036, mcl OVT. ldn The chapman professor, 5-40 231 - 5-036, mcl OVT. ldn
: <u>. </u>	APPLICANT ANTI-DRUG ABUSE CERTFICATION: 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, eg. 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,
	see 47 CFR 1.2002(b).
:::2.	List below all exhibits in numerical sequence and the item number of form requiring the exhibit identified.
EXI	HBIT NUMBER ITEM NO. OF FORM EXHIBIT NUMBER ITEM NO. OF FORM EXHIBIT NUMBER ITEM NO. OF FORM
	1 3 4, 5, 6
	2 7 5 7
	3 9

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.

D.Ink

By MARTIN CITAPINAN (print) (print) Check appropriate classification: Individual applicant Member of applicant partnership Authorized employee Office of applicant corporation or association	Name of Applicant	RTIN CHAPMAN	Dept beologic	al Sciences.	VA Tech
Title	Name of Applicant		——————————————————————————————————————		
Title	By MARTIN	CITAPMAN		Mich	lh
Check appropriate classification: Individual applicant	(p.	rint)		(signature)	
Check appropriate classification: Individual applicant Member of applicant partnership	Title Maress	N			
☐ Individual applicant ☐ Member of applicant partnership					
	Check appropriate classification	ation:			
Authorized employee Office of applicant corporation or association	Individual applicant	Member of applic	ant partnership		
· · · _ · · · ·	Authorized employee	Office of applicar	nt corporation or as	sociation	
			-		
	tion 312(a)(1), AND/OR FORFER	TURE IU.S. Code, Title 4	7, Section 503).		

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 or reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewng 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. address.

"HE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 98-579, 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.

-/200