FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

APPROVED BY OMB 3060-0065 Expires 12/31/95

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

(Stree	(Street address city, state, and ZIP Code. See instruction No. 4) Regents of the University of Michigan Dept. of Atmospheric, Oceaniac & Space Science				DO NOT WRITE IN THIS BLOCK File No. 5244-EX-PL-96					
Depr Sci										
		f. John Ve	secky							
	2455 Hayward Street Ann Arbor MI 48109.2143									
2(a) Anr	olication	for (check o	nly one hox)		2(b). For Modification indicate below:					
		r	-	a sudherization		on make belo	~ .			
	w station		dification of existin		File No:		Sign:			
3. Applica	ation fo	r modification	n indicate whe	ther change is:	an addition or replac	ement of (check	all that apply)			
☐ FRI	EQUENCY	☐ EM	SSION	POWER	LOCATIO	N				
_										
LI OTH	HER PARTI	CULARS (describe	below or in attact	hed EXHIBIT No)					
. Particu	lars of	Operation (see	instruction be	niow)						
Frequency	ticulars of Operation (see instruction below) vency (state http://doi.or.witzi		<u> </u>	EMISSION	MODULATING SIGNAL	NECESSARY BANDWILL				
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(See A	ttache	d List)								
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			See definitions							
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	•	ation and rep								
For c	complex	emissions, de	scribe in detail							
	Describe how the necessary bandwidth was determined in space provided below.									
Spe	ctrum .	Analyzer a	t Transmitte	r Output						

	FIXED/BASE	ransmitter and transm MOBILE	_	a		_ •	AND MO	BILE			
5(b). If pe	ermanently locate	d at a fixed location,	give be	low:		5(d).	If mobile,	describ	e the	xact are	a of
State	County	City or Tow					operation				
CA	Santa Cruz	Santa Cru	z CA				hin app				
Number a	and street (or other	r indication of location	n)		·	mil	e of the	e coas	st of	Califor	rnia
				·····							
5(c). Enter	geographical coordiante	is exact to the nearest sec	ond			5(e).	Enter geogra	phical co	ordinates	of the app	roximate
		<u> </u>					of proposed	area of	T		opplications)
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is this	authorization to h	be used for fulfilling	he rea	ulrament	06 9 9	OVAPRI	nent cont	ment mut	thana	genov of	`the
	States Governme	•			0, 2,		Henr Cont	tect wi	rii aii e	Selich of	tile
				YES	ب	NO					
	r, attach as EXHIB r and contact num	IT NoA:	a narra	tive state	ement o	describ	ing the g	overnn	ent pr	oject,	
	<u> </u>	e used for the exclusi									
If "YES"	, attach as EXHIB	risdiction of a foreign		YES	₹Z format	NO ion: Pr	ovide the	contra	et num	ber and	the
		vernment concerned.							- (=)		
		e used for providing or of the research pro	ject).	YES	essenu	NO NO	research	project	:? (Ine	radio co	mmunı-
If "YES	, attach as EXHIB	IT NoA			ment ;	provdi	ng the fol	lowing	inform	nation:	
		nature of the research									
		ommunications faciliting communications for					or the res	earch p	oroject	involved	L.
in detai	il the following:	ns 7, 8, and 9, are "NO".									escribin
and	theory of operati			tatlon pr	oposed	includ	ing descr	iption o	of equi	pment	
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		e length of time that							xperim	entation	propose
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		e the length of time	in mon	ths that	he autl	horiza:	ion reque	sted in	this ar	plication	
	e required.	· · · · · · · · · · · · · · · · · · ·								•	
	i a Commission gr icant environmen	ant of this application	_	within S	ection	113C7 c	of the FCC	Rules,	such th	hat it ma	y have a
If you	answer "YES", sul	bmit an Environment			equired		ction 1.1311	•			
	elow transmitting	equipment to be instr	alled (if	experin	nental,	so stat	в):			NO. OF	UNITS
Univer	sity of Michig	an	Es	kperime	nta1					3	
		,	-34							3	

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, 14. —	Is the eq	uipment listed in I	tem 13 capable of st	ation identification pur	suant to Section 5.152?	YES	XX NO
15.	Will the more the than a b	an 6 meters above	ore than 6 meters a the building, or will	bove the ground, or if in the proposed antennal	be mounted on an exis	g building. sting structu	will it ext
	If YES, (a) Overs	give the following all height above gr	(see instruction 9): ound to tip of anten	na is me			
	(b) Eleva	tion of ground at a	ntenna site above i	mean sea level is2	5 meters.		
	(c) Distai	nce to nearest aircr	aft landing area is		15	kilomete	ers.
	the o	ny natural formati pinion of the applic autical hazard of t	mant, would tend to:	n-made structures (hills, shield the antenna from	trees, water tanks, too n aircraft and thereby	wers, etc.) w minimize t	hich, in the
{	8m berm	that runs for	several hundred) the antenna is a meters. Existing ight as the propos	g antennas on top	of this	berm
	if any noting	, giving heights in ; particulars of avi	meters above groun	ical profile sketch of to nd for all significant fe thing already available	atures. Clearly indicat	supporting to existing	building, portion,
16.	Applicant	. 18: (Check only one	bezi		•		
	☐ INDI	VIDUAL 🗌 AS	SOCIATION	PARTNERSHIP	CORPORATION		
	KX OTHE	R (describe below)					
	_	versity of Mich					
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17.	Is applicat	nt a foreign gover	nment or a represen	tative of a foreign gov	ernment?	☐ YES	₩o
				ad any FCC station licer d by this Commission?	nse or permit revoked	or had any	NO EST
		ttach as EXHIBIT N and relate circumste		statement giving call sig	gn of license or permi	it .	
			operator of the sta	tlon?		⊠ yes	□ NO
	· · · · · · · · · · · · · · · · · · ·			area code) of person w			
•	to this app	olication.	ne namber (include	area code, or person w	nio can best nandie in	iquiries per	ammg
	Dr. Jo	ohn F. Vesecky,	Professor, 313	3.764.5151			
21.	APPLICAN	T ANTI-DRUG ABU	SE CERTIFICATION:				
9	denial of 21 U.S.C. 86	federal benefits, th 2, or, in the case of	nat includes FCC ber a non-individual	n the case of an individ nefits, pursuant to Section applicant (e.g., corporation to a denial of federal b	on 5301 of the Anti- D on, partnership, or oth	rug Abuse A ner unincorp	Act of 1989 porated
				these purposes, see 47 C	ED LOOOOF	YES	□ NO
22. 1	List below	all exhibits in nu	nerical sequence an	d the item number of f	form requiring the ext	hibit identif	ied.
				1	1		
EXHIB	IT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO	OF FORM
	A	7,9					
	В	15		 		 	
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23. CERTIFICATION:

Attention: Read this certification carefully before signing this application.

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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:

Signed and dated this

- (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.

day of

April

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By Alan Walter Steiss
(print) (signatura)
Title Director, DRDA
Check appropriate classification:
Individual applicant Member of applicant partnership
Authorized employee 🔯 Office of applicant corporation or association
ILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title
Section 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47,
ection 312(a)(1), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).
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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 specifically 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 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.

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.

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