FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

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Approved by OMB 3060-0065 Expires 12/31/92

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				TATION AUTHORIZ SERVICE (OTHER)		
 A. Applicant's Name and Post Office address (Give street, city, state, and ZIP Code. See Instruction No. 4) Radant Technologies, Inc. 255 Hudson Road Stow, MA 01775 			DO NO	T WRITE IN THIS BL	оск	
		•				16/89 8/1/91 1A2 XYK
2.(a) Application fo	or (check only one bo	x)		2.(b) For Modification in	dicate below,	
New Stati	on 🕅 🕅	dification of existing	authorization	File No.:0301-EX-PL-8	37 Call Sign: K	(2XIT
3. Application for	modification indicate	change in (check all	that apply)			
KX Frequency		Emission				
XX Other par	Other particulars (describe below or in attached Exhibit No)					
· · · · · · · · · · · · · · · · · · ·	rate name chang		echnologies from	Radant Systems)		
Frequency (State Whether kHz or		POWER	,,,		MODULATING	NECESSARY BANDWIDTH
MHz) (inGHz)A)	(B)	(C)	(D)	EMISSION (E)	SIGNAL (F)	(kHz) (G)
0.9 - 1.2	3 watts	1 watt	mean	non	N/A	N/A
2.0 -2.69	11	P1	17	11	· 11	11
2.86-4.0	**	F1	"	"	11	11
8.0 - 10.5	11	11	17	11	11	11
<u>10.7 - 12.0</u> 16.0 - 17.0	1917	11	11	11 11	11	
20.2 - 21.2	11				13	······································
31.8 - 33.4	11	18	11	11	19	11
43.5 -45.5	18	11	11	11	11	11
 (B) Insert maximu (C) Insert maximu (D) Insert "MEAI (E) List each type (F) Insert as appredimentation (1) the max (2) maximu (3) frequence (4) pulse du For complex 6 (G) Describe how 	m R.F. output powe m effective radiated N" or "PEAK" (See of emission separate opriate for the type o imum speed of keyin m audio modulating ey deviation of carrie ration and repetition missions, describe in the necessary bandw	r at the transmitter to power from the ante e definitions in Part 3 ly for each frequenc f modulation: g in bauds; frequency; r; rate. a detail in the space idth was determined	erminals. Specify units. nna (If pulsed emission 5). y. (See Section 2.201 I provided below. in space provided belo	n specify peak power). FCC Rules.)		

XXFIXED/BASE		🗆 MOBILE	□ BASE & MOBILE		
b) If permanently located at a	fixed leastin	n aive halav			
tate MA County		City or Town	(d) If mobile, describe the exact	ct area of operation	
umber and street (or other ind		Stow	4		
255 Hudson Road		(allon)			
(c) Geographical coordinates exact to the nearest second			(e) Geographical coordinates of the approximate center of proposed area of operation (mobile applications)		
orth Latitude 45° 25 '		Longitude 71 ° 33 , 10 "	North Latitude ° ′	West Longitude	
Is a directional antenna (oth	er than rada	r) used?	X Yes] No	
If "YES", give the following	-				
(a) Width of beam in degree(b) Orientation in horizontal(c) Orientation in vertical pl	plane				
Is this authorization to be u	sed for fulfill	ing the requirement of a governr	nent contract with an agency of th $\overline{\mathbf{X}}$ No	ne United States Government?	
If "Yes", attach as EXHIB	IT No		scribing the government project, a	gency, and contact number.	
Is this authorization to be us of a foreign government?	sed for the ex	clusive purpose of developing ra	idio equipment for export to be en	mployed by stations under the jurisdiction	
			Tres X] No	
		, the following informatio	□ Yes X		
		, the following informatio f the foreign government concern	□ Yes X		
			□ Yes X		
(a) The contract number and	l the name of	the foreign government concern	☐ Yes X	Νο	
(a) The contract number and	l the name of	the foreign government concern	☐ Yes n: ed. a research project? (The radio co		
(a) The contract number and Is this authorization to be us research project).	I the name of	f the foreign government concern	□ Yes X n: ed. a research project? (The radio con □ Yes X	mmunication is not the objective of the	
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<i>.</i>						
	13. List below MANUFA	transmitting equipment to be	e installed (if experi			
				ТҮРЕ		NO. OF UNITS
	Hewlett Millite	:-Packard ech	8671-B Syn GDM Gun Os	thesized Generator cillator		1 3
	Hewlett	:-Packard	8349 RF Si			1
	Hewlett	:-Packard	862UL Swee	p Oscillator		1
	14. Is the equip	oment listed in Item 13 capa	ble of station identif	ication pursuant to Section 5.	152?	
	-	-				
				□ Yes	X No	
						nd more than 6 meters above the
	building, or	will the proposed antenna	be mounted on an ex	sisting structure other than a l	_	
	If "Yes".	give the following (See Instr	uction 9).	XX Yes	L No	
		give the tone ting (see hold	u uuu <i>y</i>).			
\frown	(a) Overall	height above ground to tip of	of antenna is31	.7 meters.		
\frown	(b) Elevatio	n of ground at antenna site	above mean sea leve	el is meters.		
				.3		
	(c) Distance	e to nearest aircraft landing	area is		kilometers.	
				ares (hills, trees, water tanks, imize the aeronautical hazard		the opinion of the applicant, would
				height of 112.5m abo		el (AMSL)
	Since i		a hill that i	s 208m AMSL, aircraft		
	(e) Submit	as EXHIBIT No. 2	, a vertical profile	sketch of total structure inclu	iding supporting buildin	g, if any, giving heights in meters
						uction lighting already available.
H	16 Applicant is	(check only one box)				
	10. Applicant is	(check only one out)				
	🗌 Individ	Juai [Association	Dertnership	🛛 Corpo	ration
\frown	🗌 Other	(describe below)				
				·····		
	17. Is applicant	a foreign government or a r	representative of a for			
				Ves	XX No	
t	18. Has applicat	nt or any party to this applic	cation had any FCC	station license or permit revo	ked or had any applicat	ion for permit, license or renewal
	denied by th	is Commission?		□ Yes	XX No	
	If "Yes", a	ttach as EXHIBIT No.	, a statement	giving call sign of license or		late circumstances.
Ļ				·····	· ··_ ··	
	19. Will applica	nt be owner and operator of	station?	XX Yes		
ŀ	20 Gius nome	title and talenhone number	(include area anda)	of person who can best handl		this application
		Fanger, Manager-RF 1			ie inquiries pertaining to	this appreation.
		<u> </u>		· ·		
ł						·····
	21. List below a	Il exhibits in numerical sequ	ence and the item n	umber of form requiring the	exhibit identified.	
	EXHIBITS AND ITE	M NO. OF FORM				
	Exhibit Number	Item No. of Form	Exhibit Number	Item No. of Form	Exhibit Number	ltem No. of Form
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22. CERTIFICATION

ATTENTION: Read this certification carefully before signing this application.

THE APPLICANT CERTIFIES THAT:

- (a) Copies of the FCC Rules 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:

- (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 6 th day of	June	
Name of Applicant Radant Technolgoies, Inc.	1	
By Dr.Jean-Claude Sureau (print)	pond with name given o LOULL (signatu	Muali Res.
TitlePresident		Check Appropriate Classification:
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT. U.S.		Individual Applicant
CODE, TITLE 18, SECTION 1001.		☐ Member of Applicant Partnership
· ·	-	Office of Applicant Corporation or Association
		Authorized Employee
NOTIFICATION TO INDIVIDUALS AND THE PAPERWORK RE Information requested through this form is authorized by the Communicatio The information will be used by Federal Communications Commission staff quency spectrum and to effect the provisions of regulatory responsibilities r form will be available to the public unless otherwise requested pursuant to quired to obtain this authorization. THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF and the Paperwork Reduction Act of 1980, P.L. 96-511, December 11, 198	DUCTION ACT OF 1 ns Act of 1934, as ame to determine eligibility endered the Commission Section 0.459 of FCC R F 1974, P.L. 93-579, D	980 Inded, and specifically by Section 308 therein. for issuing authorizations in the use of the fre- n by the Act. Information requested by this tules and Regulations. Your response is re-

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