# FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

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

<ol> <li>Applicant's Name and Post Office address (Street address, city, state, and ZIP Code. See instruction No. 4)</li> <li>ENDGATE CORPORATION 321 Soquel Way Sunnyvale, CA 94086</li> </ol>				DO NOT WRITE IN THIS BLOCK File No. 4921-EX-PL-95			
Application	for (check	only one box)		2(b). For Modifica	tion indicate below	7:	
New station		Modification of ex	isting authorization	File No:	Call	Sign:	
3. Application f	or modificat	ion indicate w	hether change is	an addition or repla	acement of (check a	all that apply)	
FREQUENCY		MISSION			TION		
	Ticulars (descr	ibe below or in a	ttached EXHIBIT No	)			
4. Particulars of	Operation (	see instruction	below)				
Frequency (state whether kHz or MHz)		POWER		EMISSION	MODULAT ING SIGNAL	NECESSARY BANDWIDTH (KHz)	
(A)	(B) (C)		(D)	(E)	(F)	(G)	
8.6 to 40.0 GHz	+20 dBm	+58 dBm	Meen	50M0F1D	+/- 10 MHz dev		
7 <u>.0 to 39.5 GHz</u>	+20 dBm	+58 dBM	Mean	50M0F1D	+/- 10 MHz dev	50000	
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				<u> </u>			
				<u> </u>			
<ul> <li>(B) Insert maxi</li> <li>(C) Insert maxi</li> <li>(D) Insert "MEA</li> <li>(E) List each ty</li> <li>(F) Insert as ap <ul> <li>(1) the maximum</li> <li>(2) maximum</li> <li>(3) frequence</li> <li>(4) pulse duration</li> </ul> </li> </ul>	mum R.F. ou mum effecti N" or "PEAK pe of emissi propriate fo imum speed m audio mod cy deviation ration and r c emissions,	tput power at ive radiated po " (See definition on separately or the type of of keying in l ulating freque of carrier; epetition rate. describe in det	the transmitter ter ower from the and ons in Part 5). for each frequence modulation: bauds; ency; ail in the space pr	rminals. Specify un tenna (If pulsed em by. (See Section 220 rovided below.	lission, specify peak		
(G) Describe ho	w the neces	sarv handwidt	h was determined	in snace provided	below.		

Modulation is 4 FSK @ rates of 300 Hz to 45 MHz with maximum deviation of 20 MHz peak-to-peak. Deviation will be decreased at higher modulation rates in order to restrain the occupied bandwidth to 50 MHz.

5(a). Proposed location of trans.	mitter and transmitting a MOBILE	ntenna (check	only one box) BASE AND MOBILE	
5(b). If permanently located at State County CA Santa Clara	City or Town	w:	5(d). If mobile, description	
Number and street (or other ind 321 Soquel Way	Sunnyvale		See Exhibit 1 15 mi radu	e = 24km
5(c). Enter geographical coordiantes exa	ict to the nearest second		• • •	oordinates of the approximate of operation (mobile applications)
North Latitude	West Longitude		North Latitude	West Longitude
37 ° 23 ′ 14 ″	122° 1	45	0	0 , "
If "YES", give the following : (a) Width of beam in degrees (b) Orientation in horizontal <u>*Orientation will var</u> Is this authorization to be us United States Government? If "YES", attach as EXHIBIT N agency and contact number. 8. Is this authorization to be us by stations under the Jurisdia	s at the half-power point plane <u>360° (any Azimut</u> y with location. ed for fulfilling the requi- ca narrati	h)*(c) Orienta irement of a ge YES 2 ive statement of ose of developi	tion in vertical plane overnment contract w NO describing the govern	±5°*
<ul> <li>If "YES", attach as EXHIBIT No name of the foreign government of the foreign government of the second sec</li></ul>	nent concerned. d for providing communi- the research project).	cations essenti /ES koi ve statement p	al to a research projec NO provding the following	ct? (The radio communi-
(b) A showing that the comm (c) A showing that existing c	unications facilities reque	ested are neces	sary for the research	project involved.
<ul> <li>J. If all the answers to Items 7, in detail the following:</li> <li>(a) The complete program of and theory of operation.</li> <li>(b) The specific objectives so:</li> <li>(c) How the program of experimentation, or utilization of a second second</li></ul>	research and experiments ight to be accomplished. rimentation has a reasons	ation proposed	including description contribution to the d	of equipment
ll(a). Give an estimate of the len				experimentation proposed
in this application. 24 (b) If less than 2 years, give th will be required.	months e length of time in month	ns that the auth	norization requested in	n this application
<ol> <li>Would a Commission grant significant environmental in If you answer "YES", submit</li> </ol>	mpact?	res 🔯	NO	, such that it may have a
13. List below transmitting equ MANUFACTURER	ipment to be installed (if	experimental, TYPE	so state):	NO. OF UNITS
Endgate Corporation	Syrah 38	38 GHz Tra	nsceiver 4	to 10 at any one time

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14.	Is the equ	ipment listed in l	tem 13 capable of st	ation identification purs	mant to Section 5.152?	YES	X NO	
15.	Will the more that than a bu	n 6 meters above	nore than 6 meters a the building, or will	bove the ground, or if n the proposed antenna h YES X NO	e mounted on an exi	ng building, sting structu	will it exte ire other	
			(see instruction 9): ound to tip of anter					
·	(b) Elevation of ground at antenna site above mean sea level is meters.							
	(c) Distance to nearest aircraft landing area is kilometers.							
	th <b>e o</b> p	ay natural formati inion of the appli utical hazard of t	cant, would tend to	n-made structures (hills, shield the antenna from	trees, water tanks, to alrcraft and thereby	wers, etc.) w y minimize f	<sup>r</sup> hich, in t <b>he</b>	
	if any,	giving heights in	1 meters above grou	ical profile sketch of to nd for all significant fe ghting already available	atures. Clearly indica	g supporting te existing	; building, portion,	
16.	Applicant	is (theck only one	boxi					
		VIDUAL 🗆 AS	SOCIATION	PARTNERSHIP	CORPORATION			
		R (describe below)						
18.	Has applice	ant or any party	to this application h	ntative of a foreign gov ad any FCC station licen ad by this Commission?		_		
	If "YES", at		Io a	statement giving call sig	n of license or perm	U YES	X NO	
19.	Will applie	ant be owner and	i operator of the sta	ation?		YES	NO NO	
	Give name to this app		one number (include	area code) of person w	ho can best handle in	nquiries peri	taining	
	Tom Smit	th, Director,	Systems Integra	tion Phone: 408-	-737-7300 x 123			
21.	APPLICAN	ANTI-DRUG ABU	JSE CERTIFICATION:	40		· ····································		
:	denial of f 21 U.S.C. 862 association)	ederal benefits, t 2, or, in the case o , no party to the	hat includes FCC be f a non-individual applicant is subject	n the case of an individ nefits, pursuant to Section applicant (e.g., corporation to a denial of federal but these purposes, see 47 C	on 5301 of the Anti- I on, partnership, or ot enefits, that includes	Drug Abuse . her unincorp	Act of 1988, porated	
22. 1	List below	all exhibits in nu	merical sequence an	nd the item number of f	orm requiring the ex	hibit identif	fied.	
EXHIB	IT NUMBER	item ND. Of Form	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM N	o. of form	
	1	5(d)	······································					
	2	10		<u> </u>	<b> </b>	·		
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## 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: (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		_day of _	August	, 19 95			
Name of Applicant Ende	gate Corporation	<u> </u>	- <u> </u>				
laust correspond with neme given on page 11							
By Edward A. Keible August Balas							
(print)							
Title President and CEC	)						
Check appropriate classification:							
🗌 Individual applicant 🔲 Me	ember of applicant par	rtn <b>ers</b> hip					
Authorized employee X Of	fice of applicant corp	oration or	association				

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18 Section 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1), AND/OR FORFEITURE (U.S. Code, Title 47, 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 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.