6 kHz + 9 kHz = 25 kHz

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			DO NOT WRITE IN THIS BLOCK				
(Street address, city, state, and ZIP Code. See instruction No. 4)				File No.			
SpaceQuest, Ltd. 3554 Chain Bridge Road Suite 103				0117-EX-PL-2001			
				I CILLY	LLLUUI		
Fai	rfax, VA	22030					
(a). Application sate1	for (check of	nly one box)		2(b). For Modificat	on indicate below	7 :	
X New station Modification of existing authorization				File No.: Call Sign:			
Application for placement to i	or Modification ndicate wheth	n: Check the b ner the change	ox beside all par is an addition o	rticulars to be modif or a replacement of	ied. Check either parameters in the	addition or re- current authorization	
FREQUENCY -		EMISSION	-	POWER -	Loc	ATION -	
addition or	replacement?	addition o	r [] replacement?	addition or 🔲 r	eplacement? a	ddition or 🗌 replacement	
Particulars of	Operation (see		oelow)		MODULATING	NECESSARY BANDWIDT	
whether kHz or MHz)		POWER	· · · · · · · · · · · · · · · · · · ·	EMISSION	SIGNAL	(KHz)	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	
400.575	7.0W	7.0W	Peak	15K Q FID	2400bps	25 kHz *	
		The success of the su	d generately (If	more space is requir	od attach as EVH	IRIT No	
E) Insert max	imum R.F. outp	out power at th	he transmitter te	erminals. Specify un ntenna (If pulsed em	its.		
		(See definition		.			
		n separately f the type of m	-	icy. (See Section 2.20	of FCC Rules.)		
		of keying in b					
(2) maximu	m audio modu	lating frequer	ıcy;				
-	cy deviation						
	iration and re	-	all in the space p	provided below			
-				d in space provided	below. FC	C Form 442 - Page March 199	
* Carrier	Deviation	+ Doppler	Shift = Ne	cessary Bandwid	lth		

5 a). Proposed location of transm	=	ntenna (check		type of operation):
☐ FIXED/BASE	MOBILE		BASE AND MOBILE	
State County	City or Town	ow:	5(c). If mobile, describe operation Satellites:	the exact area of
Number and street (or other ind	ication of location)			550 km Lon: 63.5 Period; 1
5(b)(1). Enter geographical coordiantes e	xact to the nearest second (see	instruction 10)	5(c)(1)Enter geographical coord center of mobile operation (se	
North Latitude (DD-MIM-SS) o , "	West Longitude (DID-MM-SS) a	**	1	West Longitude o ' "
5(d). Datum (see instruction 10):		NAD 27	NAD 83	
5. Is a directional antenna (oth If "YES", give the following: (a) Width of beam in degrees (b) Orientation in horizontal	information: s at the half-power point		NO	
(b) of ferreation in normalization	piario	(6, 0110114		
7 Is this authorization to be us United States Government?	ed for fulfilling the requ	irement of a g	overnment contract with	an agency of the
If "YES", attach as EXHIBIT N agency and contact number.	oa narrat	tive statement	describing the governme	nt praject,
Is this authorization to be us by stations under the jurisdi			ing radio equipment for	export to be employed
If "YES", attach as EXHIBIT N name of the foreign govern				number and the
6. Is this authorization to be us cation is not the objective or		nications essen	tial to a research project?	(The radio communi-
If "YES", attach as EXHIBIT N (a) A description of the natu (b) A showing that the comm (c) A showing that existing	re of the research project nunications facilities requ	tive statement et being conduc- nested are nece	provding the following isted. ssary for the research pr	
1). If all the answers to Items 7 in detail the following:(a) The complete program of and theory of operation.	research and experimen			
(b) The specific objectives so(c) How the program of expension, or utilization	erimentation has a reason			relopment, extension,
il(a). Give an estimate of the le			mplete the program of ex	perimentation proposed
in this application:4 (b) If less than 2 years, give twill be required:	he length of time in mon	ths that the au	thorization requested in	this application
12. Would a Commission grant significant environmental	impact (see instruction 11	l)?	yes 🕱 no	
If "YES", attach as EXHIBIT	No an	Environmenta	l Assessment as required	by Section 1.1311.
15. List below transmitting eq MANUFACTURER	ulpment to be installed (1	f experimental MODEL NUM		NO. OF UNITS
SpaceQuest, Ltd.		Satellite '	Transmitter	2 satellites

 	is the equip	ment listed in Iter	n 18 capable of static	n identification pursua	nt to Section 5.152?	YES	K NO
E.		meters above the		ve the ground, or if move proposed antenna be			
		e the following (s height above grou		is meter	s.		
	(b) Elevation	n of ground at an	tenna site above mea	an sea level is	meters.		
	(c) Distance to nearest aircraft landing area iskilometers.						
	the opin		nt, would tend to shi	nade structures (hills, tre leld the antenna from a			
	if any, g	iving heights in	meters above ground	al profile sketch of tota for all significant feat ting already available.	structure including ures. Clearly indicat	; supporting te existing p	building, portion,
13.	Applicant is	S. (Check only one)	banl				
1,51	☐ INDIVI	_	ociation [PARTNERSHIP	X CORPORATION		
	П	(describe in space					
		· · · · · · · · · · · · · · · · · · ·					
17.	Is applicant	a foreign govern	ment or a represent	ative of a foreign gove	rnment?	YES	X NO
19.				i any FCC station licens by this Commission?	e or permit revoked	or had any	X NO
		ach as EXHIBIT No nd relate circumsta		atement giving call sign	n of license or perm		
19.	Will applicant be owner and operator of the station?					X YES	П ио
2:0.		title, and telepho est handle inquirie	area code), and Internet application.	e-mail address (if a	pplicable) of	person	
	Dr. Dinc	A. Lorenzin	i, President (7	03) 273-7010	dino@spaceque	st.com	
20.	By checkin he or she is conviction e.g., corpora	s not subject to a pursuant to Section tion, partnership a denial of federal	dual applicant certif denial of federal ber in 5301 of the Anti- or other unincorpore	ries that he or she is elimefits, including FCC be Drug Abuse Act of 1988, tited association, certification to that section. For defin	nefits, as a result of 21 U.S.C. 862. A non- s that no party to t	a drug offer individual a he application or these pur	ense applicant, n is poses,
			- A				L NO
123.	List below	all exhibits in nu	merical sequence and	the item number of fo	rm requiring the ex	khibit identi:	fied.
EX	HIBIT NUMBER	ITÉM NÓ. DE FORM	REMNUM FIBIRXE	ETEM ND. OF FORM	EXHIBIT NUMBER	ITEM N	d. of form
	1	3					
	2	10					
		i l		1	ř .	1	

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.

Signed and dated this	26th	day of	April_	XXXX	2001
Name of Applicant	SpaceQuest,	Ltd.			
By <u>Dino A. Lorenz</u>		st correspond with nam	Llus Ca	Lorenzin	
Title President			(signatu)	Fe?	
Check appropriate classification	:				
☐ Individual applicant ☐	Member of app	licant partnership			
Authorized employee	Office of applic	eant corporation or	association		
NILLFUL FALSE STATEMENTS MADE C Section 1001), AND/OR REVOCATION Section 312(a)(1), AND/OR FORFEITURE	ON OF ANY STAT	ION LICENSE OR CO	•	•	•

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 specified by Section 308 therein. The information will be used by Federal Communications Commission staff to determine elgibility 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 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 address. Individuals are not required to respond to this collection unless it displays a currently valid OMB control number.

"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), 3 ND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.