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

VertexRSI 2600 N. Longview Street Kilgore, Tx. 75662		Name and Post oss, city, state, a			File No.	O NOT WRITE IN TH		
New station	VertexRSI 2600 N. Longview Street			0180-	EX-PL-20	00 <u>1</u>		
New station	(a) Application	for (check on	ly one box)		2(b). For Modifica	tion indicate below	··	
Application for Modification: Check the box beside all particulars to be modified. Check either addition or replacement to indicate whother the change is an addition or a replacement of parameters in the current author if replacement of parameters in the current author addition or replacement of parameters in the current author if replacement?    Addition or   replacement?	_		-	ng authorization				
addition or   replacement?   addition or   addition or   replacement?   addition	. Application fo	or Modification	: Check the b	ox beside all par	rticulars to be modified. Check either addition or re-			
OTHER PARTICULARS - addition or replacement? (Describe below or in attached EXHIBIT No	FREQUENCY -		EMISSION	_	POWER -	Loca	ATION -	
Frequency (state hebter this or MHz)  (A)  (B)  (C)  (D)  (E)  (F)  (F)  (F)  (G)  (G)  (G)  (G)  (G	g (2	.475			attached EXHIBIT No	)		
Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.21 - 6.047 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.21 - 6.047 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180 MHz -12.5 dBW/4 kHz 75.4 dBW Peak 36M0G7F 30.7Mbps, 8FSK, 2/3 36000  10.24 - 6.180	Frequency (state	Operation (see		610 W)	EMISSION	L .	NECESSARY BANDWIDTH	
A) List each frequency or frequency band separately. (If more space is required, attach as EXHIBIT No.  Insert maximum effective radiated power from the antenna (If pulsed emission, specify peak power). Specimits.  Insert "MEAN" or "PEAK" (See definitions in Part 5).  List each type of emission separately for each frequency. (See Section 2201 of FCC Rules.)  Insert as appropriate for the type of modulation:  (1) the maximum audio modulating frequency;  (3) frequency deviation of carrier;								
1080 - 6180 MHz							·····	
List each frequency or frequency band separately. (If more space is required, attach as EXHIBIT No.  Insert maximum RF. output power at the transmitter terminals. Specify units.  Insert maximum effective radiated power from the antenna (If pulsed emission, specify peak power). Speciunits.  Insert "MEAN" or "PEAK" (See definitions in Part 5).  List each type of emission separately for each frequency. (See Section 2.201 of FCC Rules.)  Insert as appropriate for the type of modulation:  (1) the maximum speed of keying in bauds;  (2) maximum audio modulating frequency;  (3) frequency deviation of carrier;						<del></del>		
Insert maximum R.F. output power at the transmitter terminals. Specify units.  Insert maximum effective radiated power from the antenna (If pulsed emission, specify peak power). Speciunits.  Insert "MEAN" or "PEAK" (See definitions in Part 5).  List each type of emission separately for each frequency. (See Section 2.201 of FCC Rules.)  Insert as appropriate for the type of modulation:  (1) the maximum speed of keying in bauds;  (2) maximum audio modulating frequency;  (3) frequency deviation of carrier;	6243 - 6425 MHz	-12.5 dBW/4 kH	75.4 dBW	Peak	36M0G7F	30.7Mbps, 8PSK, 2/3	36000	
Insert maximum R.F. output power at the transmitter terminals. Specify units.  Insert maximum effective radiated power from the antenna (If pulsed emission, specify peak power). Speciunits.  Insert "MEAN" or "PEAK" (See definitions in Part 5).  List each type of emission separately for each frequency. (See Section 2.201 of FCC Rules.)  Insert as appropriate for the type of modulation:  (1) the maximum speed of keying in bauds;  (2) maximum audio modulating frequency;  (3) frequency deviation of carrier;								
For complex emissions, describe in detail in the space provided below.	insert max units. insert "MEA insert "MEA insert "MEA insert "MEA insert as ap in the max in the ma	imum R.F. outprimum effective  AN" or "PEAK" of the period	ut power at the radiated power of the type of mating frequent from the carrier; setition rate.	ne transmitter to wer from the an as in Part 5). for each frequent addulation: auds; acy;	erminals. Specify untenna (If pulsed em	nits. hission, specify peal	-	

15 &).	Proposed location of transr  **EXT FIXED/BASE**	nitter and transmitting  MOBILE	g antenna (check	only one box to indica BASE AND MOBILE	te type of operation):
15 .lɔ <b>).</b>	If permanently located at a	a FIXED location, give	below:	5(c). If mobile, describ	e the exact area of
State	County x Gregg	City or Town Kilgore		operation	
	iber and street (or other inc			†	
	00 N. Longview Street				
=	1) Enter government coordinates o	what to the percent penend	(can instruction 10)	5(c)(1)Enter geographical co	ordinates of the approximate
D .: D.N.	1). Enter geographical coordiantes e	xact to the hearest second	(See instruction 10)	center of mobile operation	
North	Latitude (DD-MM-SS)	West Longitude (DD-MM-	SS)	North Latitude	West Longitude
32	° 24 21.6	94 ° 51	13.86	0 ,	0 "
5(d).	Datum (see instruction 10):	C	] NAD 27 🕱	] NAD 88	
	s a directional antenna (oth		YES 🖨	NO	
	f "YES", give the following : a) Width of beam in degree		See Exhibit A		
	b) Orientation in horizontal			ation in vertical plane	See Exhibit A
7. Is	s this authorization to be us	ed for fulfilling the r	equirement of a	government contract w	ith an agency of the
Ţ	Julted States Government?		YES 🔯	NO NO	
	f "YES", attach as EXHIBIT N gency and contact number.	o a na	rrative statement	describing the government	ment project,
	s this authorization to be us by stations under the Jurisdi	-		ping radio equipment f	or export to be employed
-	• • • • • • • • • • • • • • • • • • • •		YES 🗖	NO	
	"YES", attach as EXHIBIT Notame of the foreign govern		ollowing informa	ation: Provide the contra	act number and the
	s this authorization to be us ation is not the objective of			tial to a research project	ct? (The radio communi-
	-		YES 🚾	NO	
	f "YES", attach as EXHIBIT N a) A description of the natu				g information:
	b) A showing that the comm c) A showing that existing				project involved.
13. I	f all the answers to Items 7, n detail the following:	8, and 9, are "NO", atta	ch as EXHIBIT No	. B a narra	tive statement describing
	a) The complete program of	research and experim	entation proposed	d including description	of equipment
(1	and theory of operation. b) The specific objectives so	nught to be accomplish	eď		
	c) How the program of expe	erimentation has a rea	sonable promise		evelopment, extension,
lia)	expansion, or utilization of Give an estimate of the ler				evperimentation proposed
111 0.7.	in this application: 3/01,			inplete the program of	experimentation proposed
(b)	If less than 2 years, give the will be required:Z	ne length, of time in m	,	thorization requested in	n this application
12.	Would a Commission grant significant environmental			1.1307 of the FCC Rules YES X NO	s, such that it may have a
	If "YES", attach as EXHIBIT	No	an Environmenta		d by Section 1.1811.
15.	List below transmitting equi	alpment to be installed	(if experimental		NO. OF UNITS
	CPI		GEN IV		/ CRITS
			(3.3 kw K	-	,
/	Ventec		NTC/208 (Malubator/	0/29	1
			(Malukator)	Converter)	

	Is the equi	pment listed in Iter	n 18 capable of static	on identification pursua	nt to Section 5.152?	YES	□ NO		
i.E.		6 meters above the		ve the ground, or if mo the proposed antenna be					
	If "YES", give the following (see instruction 9): (a) Overall height above ground to tip of antenna is meters.								
	(b) Elevation	on of ground at an	tenna site above me	an sea level is	meters.				
	(c) Distanc	(c) Distance to nearest aircraft landing area is kilometers.							
	the opi		nt, would tend to shi	nade structures (hills, tr ield the antenna from a					
	if any,	giving heights in r	neters above ground	al profile sketch of tota I for all significant feat ting already available.					
13.		is: (Check only one b		ting atready available.		<del></del>			
1 ).	Applicant	is. Coneck only one o		_					
	☐ INDIV	IDUAL ASS	OCIATION _	PARTNERSHIP	<b>E</b> CORPORATION				
	OTHE	R (describe in space	nrovided below)						
17.	Is applican	t a foreign govern	ment or a represent	ative of a foreign gove	rnment?	☐ YES	NO NO		
19.	application	for permit, license	or renewal denied	l any FCC station licens by this Commission?		☐ YES	No 🗷		
		tach as EXHIBIT No nd relate circumsta		atement giving call sign	n of license or permit				
19.	Will applic	ant be owner and	operator of the stati	on?	Į.	X YES	□ мо		
230.			ne number (include as pertaining to this	area code), and Internet application.	e-mail address (if app	plicable) of	`person		
	Alan Pol	llard, Represen	tative, 903 988-	6017					
<u> </u>	By checking he or she conviction e.g., corpor subject to	is not subject to a d pursuant to Section ation, partnership of a denial of federal	ival applicant certification of federal ben n 5301 of the Anti-I or other unincorpora	les that he or she is ellemerits, including FCC be Drug Abuse Act of 1988, ted association, certified that section. For defining the section is the section of the section	nefits, as a result of a 21 U.S.C. 862. A non-in s that no party to the	drug offendividual a applicatio	n <b>se</b> applicant, n is		
	see 47 CFR	( 1.2002( b).				YES	□ NO		
:::3.	List below	all exhibits in num	nerical sequence and	the item number of fo	rm requiring the exh	ibit identi:	Tied.		
EXH	HBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIB?T NUMBER	ITEM N	O. OF FORM		
	Δ	Page 3, 5							
	В	Page 3, 10				-			
	С	Coordination		and the second of the second o					

### 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 8		day of	cely	, <b>20</b> 02.
Name of A	pplicant Verto	XRSI	d with any give		
		imust correspon	d with name give	on page ()	
Ву	Ryan J. M	Jore field		11/11	
	(print)			(signature)	
Title	Systems Engineer				
Check appropr	rlate classification:				
Individua	l applicant     Memb	per of applicant part	nership		
Authorize	ed employee 🔲 Office	e of applicant corpor	ation or associa	ution	
	ATEMENTS MADE ON THIS				•
•	AND/OR REVOCATION OF ND/OR FORFEITURE (U.S. C			ICTION PERMIT (C	i.S. Code, little 47,
section S (Ztax I), Al	ADJOR FORFEITORE 10.3.	Jule, Title 47, Section	11 303).		

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 reviewing 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** and dress. 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), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 6507,

Approved by OMB 3060-0065 Ekpines 9/30/98

SECTION I

APPLICANT NAME (Last, first, middle initial)

## FEDERAL COMMUNICATIONS COMMISSION

FCC	FORM	442
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FOR FCC		
USE ONLY		

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

VertexRSI								
MAILING ADDRESS (Line 1) (Maximum 35 characters - refer to Instruction (2) on reverse of form)								
2600 N. Longview Stree	t							
MAILING ADDRESS (Line 2)	(if required) (Maximum 35	characters)	N.					
•								
CITY Kilgore								
	(magazina)	ZIP CODE	CALL STORY	OR FILE NUMBER				
STATE OR COUNTRY (if fore Texas	ign address/	75662	CALL SIGN C	OR FILE NOMBER				
Enter in Column (A) the correct	t Fee Type Code for the se	rvice you are applying fo	or. Fee Type Cod	les may be found in FCC				
Fee Filing Guides. Enter in Col	**		• •	•				
the value of the Fee Type Coc (A)	le in Column (A) by the numb <b>(B)</b>	er entered in Column (E (C)	3), if any.					
	FEE MULTIPLE	FEE DUE FOR F	EE TYPE					
(1) FEE TYPE CODE	(if required)	CODE IN COLU	JMN (A)	FOR FCC USE ONLY				
E A E		<b>\$</b> 45.00	l	{				
SECTION II	— To be used only who	n you are requesting co	nourrent actions	which recult in a				
SECTION II	•	ore than one Fee Type (		WINCH 1620H III a				
		(4)						
(A) FEE TYPE CODE	(B) FEE MULTIPLE	(C) FEE DUE FOR F	FF TYPF	FOR FCC USE ONLY				
	(if required)	CODE IN COLL						
		<del></del>		i				
(2)		\$						
			<del></del>					
(3)		\$						
(4)								
(4)								
(5)								
(0)		\$						
ADD ALL AMOUNTS SHOWN IN COLUMN C, LINES (1)								
THROUGH (5) AND ENTER THE TOTAL HERE. TOTAL AMOUNT REMITTED								
THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED  WITH THIS APPLICATION  OR FILING  FOR FCC USE ONLY  REMITTANCE.								
\$								