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

		11		DO N	IOT WRITE IN THIS	BLOCK		
(Street address	me and Post Of s, city, state, an	d ZIP Code. See 1	nstruction	File No.				
No. 4)	Navigatio	on, Ltd.		r-77 0-1	-V-01-9-	7		
Lou Die	tz, B12	•		5//87	=X-GL-97	,		
645 N.	Mary Av.				71			
P.O. Box	x :3642	4099-3642			,			
Sunnyva	le, CA 9	4000-3042			/c			
(a). Application	for (check onl	y one box)	1	2(b). For Modificatio	n indicate below:	LAZXIZ		
New station	Modif	fication of existing a		2(b). For Modification indicate below: Call Sign: Ca				
Application fo	r Modification:	Check the box l	peside all par an addition o	ticulars to be modified a replacement of particulars.	arameters in the	current authorization		
placement to 11	ndicate whether	J. 1110 DISTRICT		POWER -	Loca.	TION -		
FREQUENCY -	ı	■ EMISSION -	1 roniscement?	addition or re	placement?	lition or Treplacement?		
addition or 🗌	replacement?	addition &] Teplacaries.					
OTHER DARFICH	ADS - addition or	replacement? (Descri	ba below or in	attached EXHIBIT No				
DIHER PARTICOL	AU2 daggion a	,						
		instruction belo	w)			DAN DIAMOTE		
Dontioulars of	Operation (see	IIISU GOLLETT				I MERCECCADY RANGIWHILE		
Particulars of	Operation (see	POWER		EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (KHz) (G)		
	(B)	POWER (C)	(D)	(E)	SIGNAL (F)	(KHz) (G)		
Frequency (state whether kHz or MHz) (A) 1626.5 to	(B) 20 W	POWER			SIGNAL (F)	(KHz)		
Frequency (state whether kHz or MHz) (A) 1626.5 to	(B) 20 W	POWER (C)	(D)	(E)	SIGNAL (F)	(KHz) (G)		
Frequency (state whether kHz or MHz) (A) 1626.5 to	(B) 20 W	POWER (C)	(D)	(E)	SIGNAL (F)	(KHz) (G)		
Frequency (state whether kHz or MHz)	(B) 20 W	POWER (C)	(D)	(E)	SIGNAL (F)	(KHz) (G)		
Frequency (state whether kHz or MHz) (A) 1626.5 to	(B) 20 W	POWER (C)	(D)	(E)	SIGNAL (F)	(KHz) (G)		
Frequency (state whether kHz or MHz) (A) 1626.5 to	(B) 20 W	POWER (C)	(D)	(E)	SIGNAL (F)	(KHz) (G)		
Frequency (state whether kHz or MHz) (A) 1626.5 to	(B) 20 W	POWER (C)	(D)	(E)	SIGNAL (F)	(KHz) (G)		
frequency (state whether kHz or MHz) (A) 1626.5 to 1646.5 MHz	(B) 20 W	POWER (C) 40 W EIRP	(D) Mean	(E) Inmarsat=C	SIGNAL (F) Inmarsat=C	(KHz) (G) Inmarsat-C		
frequency (state whether kHz or MHz) (A) 1626.5 to 1646.5 MHz	(B) 20 W	POWER (C) 40 W EIRP	(D) Mean	(E) Inmarsat=C more space is requir	SIGNAL (F) Inmarsat=C	(KHz) (G) Inmarsat-C		
frequency (state whether kHz or MHz) (A) 1626.5 to 1646.5 MH;	(B) 20 W	POWER (C) 40 W EIRP requency band s	(D) Mean	(E) Inmarsat=C more space is require more space is require	SIGNAL (F) Inmarsat-C ed, attach as EXH	(KHz) (G) Inmarsat=C		
frequency (state whether kHz or MHz) (A) 1626.5 to 1646.5 MHz	(B) 20 W	POWER (C) 40 W EIRP requency band s	(D) Mean	(E) Inmarsat=C more space is require more space is require	SIGNAL (F) Inmarsat-C ed, attach as EXH	(KHz) (G) Inmarsat=C		
frequency (state whether kHz or MHz) (A) 1626.5 to 1646.5 MHz (A) List each (E) Insert may units	(B) 20 W frequency or f ximum RF, out ximum effective	(C) 40 W EIRP requency band so put power at the ve radiated power	(D) Mean separately. (If transmitter ar from the a	(E) Inmarsat=C more space is requir	SIGNAL (F) Inmarsat-C ed, attach as EXH	(KHz) (G) Inmarsat=C		
frequency (state whether kHz or MHz) (A) 1626.5 to 1646.5 MH; (A) (A) List each (E) Insert may units.	(B) 20 W 2 2 2 2 3 3 4 4 4 4 7 7 7 7 7 7 8 7 8 7 8 7 8 7 8 7	POWER (C) 40 W EIRP Prequency band so put power at the ve radiated power	(D) Mean separately. (If transmitter or from the a	more space is requirementals. Specify unntenna (If pulsed em	SIGNAL (F) Inmarsat-C ed, attach as EXH its. ission, specify per	(KHz) (G) Inmarsat=C		
frequency (state whether kHz or MHz) (A) 1626.5 to 1646.5 MHz (A) List each (E) Insert may units.	frequency or f ximum RF. out ximum effective EAN" or "PEAK"	requency band so rediated power at the veradiated power on separately for	(D) Mean separately. (If transmitter or from the a in Part 5).	(E) Inmarsat=C more space is require more space is require	SIGNAL (F) Inmarsat-C ed, attach as EXH its. ission, specify per	(KHz) (G) Inmarsat=C		
frequency (state whether kHz or MHz) (A) 1626.5 to 1646.5 MHz (A) List each (E) Insert may units. (D) Insert may (E) List each (E) List each (E) List each	(B) 20 W 20 W 20 W 20 W 20 W 21 W 21 W 22 W 23 W 24 W 25 W 26	requency band sput power at the ve radiated power in the type of more than the type of more than the type of more than type of more type of the type of more type of the type of more type of the type of type of the type of the type of	(D) Mean Mean separately. (If transmitter or from the a in Part 5). each freque dulation:	more space is requirementals. Specify unntenna (If pulsed em	SIGNAL (F) Inmarsat-C ed, attach as EXH its. ission, specify per	(KHz) (G) Inmarsat=C		
frequency (state whether kHz or MHz) (A) 1626.5 ±0 1646.5 MHz (A) List each (E) Insert may units. (I) Insert as (E) List each	(B) 20 W 20 W 20 W 21	requency band so put power at the ve radiated power of the type of most of keying in bau	(D) Mean Mean Reparately. (If transmitter or from the action in Part 5). Reach frequential in the interior	more space is requirementals. Specify unntenna (If pulsed em	SIGNAL (F) Inmarsat-C ed, attach as EXH its. ission, specify per	(KHz) (G) Inmarsat=C		
frequency (state whether kHz or MHz) (A) 1626.5 to 1646.5 MHz (A) List each (E) Insert may units. (I) Insert may (E) List each (F) Insert as (I) the may (2) maxim	frequency or f ximum RF. out ximum effective EAN" or "PEAK" type of emission aximum speed aximum speed aum audio modi	requency band so put power at the ve radiated power of the type of most of keying in bau ulating frequency.	(D) Mean Mean Reparately. (If transmitter or from the action in Part 5). Reach frequential in the interior	more space is requirementals. Specify unntenna (If pulsed em	SIGNAL (F) Inmarsat-C ed, attach as EXH its. ission, specify per	(KHz) (G) Inmarsat=C		
frequency (state whether kHz or MHz) (A) 1626.5 ±0 1646.5 MHz (A) (A) List each (E) Insert manualts (I) Insert "MI (E) List each (F) Insert as (I) the manual (I) the manual (II) the manual (III) (III) (IIII) (IIIIIIIIIIIIIIIIII	(B) 20 W 20 W 20 W 20 W 21 Control of the cont	requency band so put power at the ve radiated power of the type of more of keying in bau ulating frequency of carrier;	(D) Mean Mean Reparately. (If transmitter or from the action in Part 5). Reach frequential in the interior	more space is require terminals. Specify unntenna (If pulsed em	signal (f) Inmarsat=C ed, attach as EXH its. ission, specify per	(KHz) (G) Inmarsat=C IBIT No Ak power). Specify		
frequency (state whether kHz or MHz) (A) 1626.5 to 1646.5 MHz (A) List each (E) Insert may units. (I) Insert may units. (I) Insert as (I) the may (2) maxim (3) frequency (4) pulse (4)	(B) 20 W 20 W 20 W 20 W 21	requency band so put power at the ve radiated power the type of most of keying in bau ulating frequency of carrier; epetition rate.	(D) Mean Mean Reparately. (If transmitter or from the a in Part 5). Reach freque dialation: ds. y:	more space is requirementals. Specify unntenna (If pulsed em	signal (F) Inmarsat=C ed, attach as EXH its. ission, specify per	(KHz) (G) Inmarsat=C		

15 (J. I		ed location XED/BASE		itter and trans	mitting a E	ntenna (cl	neck ·	only one BASE A	ND MOI	indica: BILE	e type (or obera	.uom.
				FIXED location	give be	low:		5(c). If	mobile,	describ	e the ex	xact are	a of
1 <u>5 .15), 1</u> :State	r perr	County	ocated at a	City or Tov	vn.			Uni	eration ted S e in				ad.
Numb	er and	d street (o	r other indi	cation of locati	on)			Das	e III	5 umi	yvare	CA	
5:lb)(1)	. Enter	geographical	coordiantes e>	act to the nearest	second (se	e instruction	10)		ter geogra				
	Latituda	(DD-MM-SS		West Langitude (D-MM-SS)			North La	titude		West 1	ongitude	
	0	,	17	0	•			37 [°]	23		122	02	25
5(d).	Datum	(see instr	uction 10): .		🗆	NAD 27	X	NAD 8	3				<u> </u>
E. Is	a dire	ctional an	tenna (othe	er than radar)	used?	YES	X	NO					
Ιf	"YES".	give the	following i	nformation:		.+							
(a) Widi	th of bean	in degrees	at the half-po plane	wer pon	(c) C	rient	ation in	vertical	l plane			
7. Is	this a	uthorization	n to be us	ed for fulfilling	the rec	uirement	of a g	governm	ent con	tract w	ith an a	gency o	or the
U	nited	States Gov	ernment?			YES	X	NO					
-	7701749	and conta	ct number.	0									
٤. Is	this a	uthorizati	on to be us	ed for the excl	usive pu	rpose of de	evelo	ping rad	lo equip	ment i	or expo	ri w be	embroken
þ	y stati	ons under	the jurisal	ction of a fore		YES	X	NO					
n	ame o	f the fore	ign govern	ment concerned	1.								<u> </u>
c: Ii	ation i	s not the	EXHIBIT N	ed for providing the research	_ a narr	YES ative state	ment	NO provdin	ng the f	ollowin	g infor	mation:	
(1 (d	b) Asi c) Asi	nowing the nowing the	at the comm at existing	re of the reseaunications fac	ilities rec s facilitie	quested and	equa	te.					
12. 19	f all tl	ne answer	s to Items 7	, 8, and 9, are "1	IO", attac	h as EXHIE	IT No	1_		a narr	ative st	atement	describing
(1	n deta: a) The	complete	wing: program of operation.	research and	experime	ntation pr	opose	d includ	ling des	eription	of equ	ipment	
(b) The	specific o	bjectives s	ought to be according to the radio ar	as a roas	onable bro	mise	of contr	ibution vestigate	to the	develop	ment, e	ktension,
	exp	ansion, or	uulization	ngth of time th	et will b	e required	to co	mplete	the prog	ram of	experl	mentatio	n proposed
			2 vea	rs									
(b)	If les	s than 2 y	ears, give t i·	he length of ti									
12.	Woul	d a Comm	lssion gran	of this applica	tion com	e within	Sectio		of the F	CC Rule	es, such	that it	may nave a
	signii	ficant env	ironmental	impact (see in:	struction	11)?		VES		∐ NO			
18.	List h		smitting eq	uipment to be			mente	al, so sta					OF UNITS
		ane & T				тт30	22-	C				:	l

4 ;.	Is the equipment listed in Item 18 capable of station identification pursuant to Section 5.152? YES X NO
i.e.	Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extends more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building? YES NO
	If "YES", give the following (see instruction 9): (a) Overall height above ground to tip of antenna is meters.
	(b) Elevation of ground at antenna site above mean sea level is meters.
	(c) Distance to nearest aircraft landing area is kilometers.
	(d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft and thereby minimize the aeronautical hazard of the antenna.
	(e) Submit as EXHIBIT No a vertical profile sketch of total structure including supporting building, if any, giving heights in meters above ground for all significant features. Clearly indicate existing portion, noting particulars of aviation obstruction lighting already available.
13.	Applicant is (theck only one best
	☐ INDIVIDUAL ☐ ASSOCIATION ☐ PARTNERSHIP ☐ CORPORATION
	OTHER (describe in space provided below)
17. 15.	Is applicant a foreign government or a representative of a foreign government? YES XX NO Has applicant or any party to this application had any FCC station license or permit revoked or had any
•	application for permit, license or renewal denied by this Commission? If "YES", attach as EXHIBIT No a statement giving call sign of license or permit revoked and relate circumstances.
	Will applicant be owner and operator of the station?
la.	har (Include area code) and Internet e-mail address (if applicable) of person
210.	who can best handle inquiries pertaining to this application. Lou Dietz 408/481-8827 Trimble Navigation, Ltd. RF Engineer 645 N. Mary Av. Bldg. 12, Sunnyvale, CA 940
211.	APPLICANT ANTI-DRUG ABUSE CERTFICATION: By checking "YES", the individual applicant certifies that he or she is eligible for this license. This requires that he or she is not subject to a denial of federal benefits, including FCC benefits, as a result of a drug offense conviction pursuant to Section 5301 of the Anti- Drug Abuse Act of 1988, 21 U.S.C. 862. A non-individual applicant,
	eg, corporation, partnership or other unincorporated association, certifies that no party to the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these purposes, see 47 CFR 1.2002(b).
:22	eg, corporation, partnership or other unincorporated association, certifies that no party to the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these purposes, see 47 CFR 1.2002(b).
:3:2. :====	eg, corporation, partnership or other unincorporated association, certifies that no party to the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these purposes, see 47 CFR 1.2002(b).
	eg, corporation, partnership or other unincorporated association, certifies that no party to the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these purposes, see 47 CFR 1.2002(b). **EX** YES** NO **List below all exhibits in numerical sequence and the item number of form requiring the exhibit identified. **XHIBIT NUMBER** ITEM NO. OF FORM EXHIBIT NUMBER** ITEM NO. OF FORM EXHIBIT NUMBER** ITEM NO. OF FORM
	eg, corporation, partnership or other unincorporated association, certifies that no party to the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these purposes, see 47 CFR 1.2002(b). List below all exhibits in numerical sequence and the item number of form requiring the exhibit identified.
	eg, corporation, partnership or other unincorporated association, certifies that no party to the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these purposes, see 47 CFR 1.2002(b). **EX** YES** NO **List below all exhibits in numerical sequence and the item number of form requiring the exhibit identified. **XHIBIT NUMBER** ITEM NO. OF FORM EXHIBIT NUMBER** ITEM NO. OF FORM EXHIBIT NUMBER** ITEM NO. OF FORM
	eg, corporation, partnership or other unincorporated association, certifies that no party to the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these purposes, see 47 CFR 1.2002(b). **EX** YES** NO **List below all exhibits in numerical sequence and the item number of form requiring the exhibit identified. **XHIBIT NUMBER** ITEM NO. OF FORM EXHIBIT NUMBER** ITEM NO. OF FORM EXHIBIT NUMBER** ITEM NO. OF FORM

CERTIFICATION: 23

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
- (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
- (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
- (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. 97

_	28th	day of	May	, 19
Signed and dated this	2011			
Name of Applicant Tr	imble Navigation	orrespond with name	given on page 1)	
By Lou Dietz	rinti		(signature)	Υ
Title R.F. Engine Check appropriate classific				
☐ Individual applicant	Member of applic	ant partnership		
xX Authorized employee	Office of applicar			ANALY (II & Code Title
WILLFUL FALSE STATEMENTS MAN Section 1001), AND/OR REVO	CATION OF AILS SIMILE	14	INE AND/OR IMPRISOR NSTRUCTION PERMIT	

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 308 therein. The information will be used by Federal Communications Commission staff to determine oligibility 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 o 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 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 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 81, 1974, 5 U.S.C. 552a(e)(8), AND THE PAPERWORK REDUCTION ACT OF 1980, PL 96-511, DECEMBER 11, 1980, 44 U.S.C. 9507.