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

(Street addre No. 4) Mackay P.O. B	Communication 7819, N.J. 088	ions Inc.	See Instruction	File No. 1555  LYSS - EX-ML-94  KF2XC X 206  2(b). For Modification indicate below:				
3. Application for	or modification	n indicate who	ether change is:	File No.: an addition or repla		Sign:		
FREQUENCY	EMI	SSION	POWER  ched EXHIBIT No	LOCAT				
4. Particulars of	Operation (see	e instruction b	elow)					
Frequency (state whether kHz or MHz)	POWER			EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (KHz)		
(A)	(B)	(C) EPIRB	(D)	(E)	(F)	(G)		
tlx: (MHz)	15w	25dBw	Peak	O-OPSK	8 kBit/s	10 kHz		
1626.5- 1660.5								
Rx: (MHz) 1525-1559								
(B) Insert maxi (C) Insert maxi (D) Insert "MEA (E) List each ty (F) Insert as ap (I) the max (2) maximum (3) frequency (4) pulse du For complex	mum R.F. outpour mum effective and or "PEAK" ope of emission oppropriate for imum speed of maudio module by deviation of ration and region sciences, described in the contraction of the	ut power at the radiated power (See definition a separately for the type of most keying in bacating frequency from the carrier; petition rate.	te transmitter tere from the and s in Part 5).  or each frequence odulation:  uds;  cy;	nore space is requireminals. Specify underna (If pulsed emery. (See Section 220)	nits. Ission, specify pea of FCC Rules.)	<del>-</del>		

5/0	) Propo	sed location of trans	smitter and transmi	tting antenn	a (check	only one boy)	
0,2,		FIXED/BASE	X MOBILE	tung antenn		BASE AND MOBILE	
5(b	). If per	manently located at	a fixed location, gi	ve below:		5(d). If mobile, descri	be the exact area of
Sta		County	City or Town			operation	
						WITHIN THE USA	
NU:	mber ai	nd street (or other in	idication of location	.)			
5(c)	. Enter a	peographical coordiantes e	kact to the nearest secon	nd			coordinates of the approximate
	h Latitude		West Longitude			center of proposed area  North Latitude	of operation (mobile applications)  West Longitude
INOL	0	, ,	Avest Fouldirage	, ,,		O ,	" o " "
		ectional antenna (ot	· · · · · · · · · · · · ·			***	
		, give the following th of beam in degre		X YES	o <b>ப</b>	NO	
		ntation in horizontal	1.1		c) Orient	ation in vertical plane	0-90
						·	
			sed for fulfilling th	ne requireme	_	covernment contract v	with an agency of the
		States Government?		☐ YES	X	NO	
		, attach as EXHIBIT 1 and contact number		narrative st	atement	describing the govern	ment project,
_				re purpose of	develor	oing radio equipment f	For export to be employed
		ons under the Jurisd				mg .uu.o oqu.po	or onport to be employed
				YES Y	X	NO	
				ne following	informa	tion: Provide the conti	ract number and the
•	name oi	the foreign govern	iment concerned.				
9. 1	s this a	uthorization to be u	sed for providing o	ommunication	ns essent	tial to a research proje	ect? (The radio communi-
(	cation is	s not the objective of	of the research proj	ec <u>t).</u>			
1	f "YES",	attach as EXHIBIT I	No a	☐ YES narrative st	tement	NO provding the following	g information:
(	a) A de	scription of the nati	ire of the research	project being	g conduc	eted.	
		owing that the common owing that existing				ssary for the research s.	project involved.
10. I	f all the n detail	e answers to Items 7 I the following:	7, 8, and 9, are "NO", a	attach as EXI	HIBIT No.	a narr	ative statement describing
(			research and expe	rimentation	proposed	l including description	of equipment
(		theory of operation. specific objectives s	ought to be accompl	ished.			
	c) How	the program of exp	erimentation has a	reasonable p			development, extension,
		nsion, or utilization					
11(8).		in estimate of the le application.	ngin of time that w	viii be require	o to cor	npiete the program of	experimentation propose
(b)		••	he length of time in	n months tha	t the aut	thorization requested i	in this application
		required.			<u> </u>	2 yrs	
12.				come within	Section	1.1307 of the FCC Rule	s, such that it may have a
	_	cant environmental	_	☐ YES	X	NO	
	li you	answer "YES", submi	t an Environmental	Assessment	required	i by Section 1.1811.	
13.		low transmitting eq	ulpment to be instal			so state):	NA 65 1117-5
	MANUF	ACTURER		TYPE			NO. OF UNITS
	ABB 1	Nera	c	Saturn Mini	Dhono		22
			2	acurn MIN	rrione		20

14.	Is the eq	uipment lis	ted in Ite	m 13 capable	of static	on identif	ication	pursuant	to Section	n 5.152?	YES	K	NO
15.	Will the more tha than a b	n 6 meters	xtend mo above th	re than 6 me	or will th	ve the gro	ound, or d anter	na be mo	ted on an ounted on	existing an existi	building ng struc	, will i	t exten
				see instruction and to tip of	on 9):	<del>-</del>							
	(b) Elevation of ground at antenna site above mean sea level is meters.												
	(c) Distance to nearest aircraft landing area is										_ kilom	eters.	
	the or		he applica	ns of existin int, would te e antenna									, in
	(e) Submi	t as EXHIB	IT No		a vertica	l profile s	sketch	of total s	iructure ii	ncluding	supporti	ng buil	ding,
	_		_	meters above tion obstruct	_	-	-		es. Clearly	indicate	existin	g portic	on,
16.	Applicant	is: (Check	only one	boxi					,				
	☐ INDI	VIDUAL	☐ ASS	OCIATION		PARTNI	ERSHIP	X	CORPOR	ATION			
	ГП	7D /d/b-											
	_ OIRE	ER (describe	pelow)										
					•								
 17.	Is applica	nt a foreig	n govern	ment or a re	presenta	tive of a	foreign	governi	nent?	Γ	] yes		NO.
18.	Has applic	ant or any	party to	this applicat	tion had	any FCC	station	license o		evoked o			
		<del>-</del>		or renewal		•				ַ [	] YES	X	NO
		.ttach as E2 and relate (		o nces.	, a. sta	itement gi	ving c	ali sign o	l'license d	or permit			
19.	Will appli	cant be ow	ner and	operator of	the static	on?					] YES	K	NO
20.	Give nam	e, title, and	telephor	ne number (i	nclude a	rea code)	of pers	on who c	an best h	andle inq	uiries p	ertainii	ng
	to this app		Marketi	ng/Sales S	unervi	sor							
		25-0909	10271002	,	aper vr	501							
21.	APPLICAN	IT ANTI-DE	UG ABU	SE CERTIFICA	ATION:								
	denial of 21 U.S.C. 86	federal be 52, or, in th	nefits, the e case of	ant certifies at includes F a non-indiv pplicant is s	CC bene vidual ap	fits, pursu plicant (e.	ant to	Section 59 oration, p	301 of the partnershi	Anti- Dr p, or othe	ug Abus er uninc	e Act o orporat	f 1988, ed
	to that sec	etion. For t	he defini	tion of "part	y" for th	ese purpo	ses, see	47 CFR 1	.2002(b).		X YES		NO
22.	List below	all exhibi	ts in num	nerical seque	nce and	the item	number	of form	requiring	the exh	ibit ider	itified.	
EXHI	BIT NUMBER	ITEM NO. O	F FORM	EXHIBIT NU	MBER	ITEM NO.	OF FORM		EXHIBIT N	UMBER	ITEM	NO. OF	FORM
	1	10											
		ļ											
		<del> </del>									-		
		1	•								ł .		

## 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 (8) 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 October 25 94 do to of 10

	ore more arrea arread		, 18 , 18
	Name of Applicant	Mackay Co	mmunications Inc.
		•	(must correspond mith name given on page 1)
	ByTher	esa Masarik	Alexa Masail
		(print)	(signature)
•	Title <u>Marketin</u>	g/Sales Super	visor
Che	ck appropriate cla	assification:	
	Individual applic	ant	per of applicant partnership
X	Authorized empl	oyee 🔲 Office	e of applicant corporation or association
			FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47,

## 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.

Section 312(a)(1), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

THE 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. 3507.