# Federal Communications Commission Washington, D.C. 20554

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

A. Applicant's Name and Post Office address (Give street, city, state, and ZIP Code. See Instruction No. 4)  Mackay Communications Raritan Center 300 Columbus Circle Edison, N.J. 08818			DO N	DO NOT WRITE IN THIS BLOCK		
			2.(b) For Modification indicate below			
2.(a) Application for (check onl.) one box) Renewal						
Renewal  New Station  Modification of existing authorization				File No.: Call Sign:		
3. Application for	modification indicate	change in (check a	ll that apply)	<u></u>		
☐ Frequenc	у 🗆	Emission	☐ Power	Location		
			zhibii No	)		-
<del></del>	Operation (See Instruc	tions below)		<del></del>	T	7
Frequency (State Whether kHz or MHz)	(3)	POWER (C)	T @	EMISSION (E)	MODULATING SIGNAL (F)	NECESSARY BANDWIDTH (EHz)
TX:	(a)		(D)	(2)	(*)	(C)
1626.5 -	ł		<del></del>	<u> </u>	<del> </del>	<del> </del>
1646.5	14.7dBW	16 dBW	Peak	G1	1200 Baud	5 kHz
RX:			<del></del>		ļ	
1530.0- 1545.0						
1343.0			<del> </del>			<del> </del>
			<del> </del>	<del> </del>		<del> </del>
(A) List each frequency or frequency band separately. (If more space is required, attach as Exhibit No).  (B) Insert maximum R.F. output power at the transmitter terminals. Specify units.  (C) Insert maximum effective radiated power from the antenna (If pulsed emission specify peak power).  (D) Insert "MEAN" or "PEAK" (See definitions in Part 5).  (E) List each type of emission separately for each frequency. (See Section 2.201 FCC Rules.)  (F) 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 carri:r;  (4) pulse duration and repetition rate.  For complex emissions, describe in detail in the space provided below.  (G) Describe how the necessary bandwidth was determined in space provided below.  Bandwidth in (G) is allocated Bandwidth per channel in INMARSAT C system Modulation is unfiltered BPSK at 600/1200 bps.						
modulation	is unfilter	ed BPSK at	600/1200 bps.	•	•	

5(a). Proposed location of transmitte	er and transmitting antenna (Check o	only one box)		•	
☐ FIXED/BASE		BASE & MOBILE			
(b) If permanently located at a fixe	d location, give below	(d) If mobile, de:	scribe the exact are	ea of operation	
State County	City or Town	TITMITTAL	א מוד בנניי		
Number and street (or other indication	on of location)	WITHIN	THE USA		
			·		
(c) Geographical coordinates exact to the nearest second			(e) Geographical coordinates of the approximate center of proposed area of operation (mobile applications)		
North Latitude	West Longitude	North Latitude	•	West Longitude	
6. Is a directional antenna lother the	I radar) used?	☐ Yes	Ø No	<u></u>	
If "YES", give the following inf	ormation:	2	20		
<ul> <li>(a) Width of beam in degrees at t</li> <li>(b) Orientation in horizontal plane</li> <li>(c) Orientation in vertical plane</li> </ul>					
. Is this authorization to be used for	r fulfilling the requirement of a gove		agency of the Uni	ted States Government?	
	☐ Yes	₽ No			
If "Yes", attach as EXHIBIT No	, a narrative statement	describing the governme	ent project, agency	and contact number.	
				d to a section of the section of the section of	
Is this authorization to be used for of a foreign government?	the exclusive purpose of developing	g radio equipment <i>tor</i> exp	port to be employe No	d by stations under the jurisdiction	
	, the following informa-				
Is this authorization to be used for research project).	providing communications essential	to a research project? (T	The radio communic No	cation is not the objective of the	
(a) A description of the nature of ti	a narrative statement p he research project being conducted. iions facilities requested are necessary nications facilities are inadequate.				
. If all the answers to Items 7, 8, and				oing in detail the following:	
(b) The specific objectives sought to	ation has a re sonable promise of co			j	
(a) Give an estimate of the length of					
(b) If less than 2 years, give the leng					
Would a Commission grant of this a	pplication come within Section 1.130		· —	a significant	
environmental impact?		☐ Yes	EKNo	1	
If you answer yes, submit an Environ	nental Assessment required by Sect	tion 1.1311.		·	

	NUFACTURER	, ,	rrimental, so state): TYPE		NO. OF UNITS
EB Ne	ra		Saturn C		1
14. Is the	equipment listed in Item 13	capable of station ident	fication pursuant to Section 5.	152?	
			🗓 Yes	□ No	
15. Will ti buildir	e anienna extend more than ig, or will the proposed anier	6 meters above the gro	und, or if mounted on an exist existing structure other than a b	ing building will it ex ouilding?	tend more than 6 meters above the
If "Ye	s", give the following (See )	Instruction 9):	☐ Yes	₽ No	
(a) Ove	erall height above ground to	tip of antenna is	meters.		
(b) Ele	vation of ground at antenna s	site above mean sea lev	el is meters.		
(c) Dist	ance to nearest aircraft landi	ng area is		kilometers.	
(e) Subr					
abov	e ground for all significant for	, a vertical profile eatures. Clearly indicate	sketch of total structure include existing portion, noting partic	ing supporting building	g, if any, giving heights in meters uction lighting already available.
abov	nit as EXHIBIT No.  e ground for all significant for all significa	, a vertical profile eatures. Clearly indicate	sketch of total structure include existing portion, noting partic	rulars of aviation obsti	uction lighting already available.
abov	e ground for all significant for all significa	eatures. Clearly indicate	existing portion, noting partic	ing supporting building sulars of aviation obstruction obstruction obstruction of a viation obstruction of a viation obstruction of a viation of a v	uction lighting already available.
abov  16. Applicar  Inc  Oti	e ground for all significant for all significa	□ Association	existing portion, noting partic	rulars of aviation obsti	uction lighting already available.
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abov  16. Applicar  Inc Odi  17. Is applicated to the second to the seco	e ground for all significant for its (check only one box) lividual mer (describe below) ant a foreign government or its appoint or any party to this appoint its Commission?	Association  a representative of a for lication had any FCC st	Partnership  eign government?  Yes  ation license or permit revoked	© Corpor  No  or had any application	ation  of for permit, license or renewal
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abov  16. Applicar  Inc Oti  17. Is applicated to the second to the seco	e ground for all significant for it is (check only one box)  lividual her (describe below)  ant a foreign government or it icant or any party to this app, this Commission?  , attach as EXHIBIT No. —  icant be owner and operator in icant be owner and operator in it. Theresa M. It.	Association  a representative of a for lication had any FCC station?  of station?  of station?	existing portion, noting particle existing portion. Partnership  eign government?  Yes  ation license or permit revoked yes  giving call sign of license or permit person who can best handle in	No or had any application in No ermit revoked and rela	ation  of for permit, license or renewal  te circumstances.
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FCC Form 442 Page 3 February 1987

#### 22. CERTIFICATION

ATTENTION: Read this certification carefully before signing this application.

#### THE APPLICANT CERTIFIES THAT:

- (a) Copies of the FCC Rules 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 appl	lication and attached exhibits are tr	rue, complete and correct to t	the best of the applicant's knowledge; and
(f) The applicant is willing to fin	nance and conduct the experimental	l program with full knowledg	ge and understanding of the above limitations; and
	m to the use of any particular frequer	•	spectrum as against the regulatory power of the USA $92$ .
-	Mackay Communicat		
•		orrespond with name given or	
Theresa M.	Masarik prini)	Signature (signature	so M. Masarif
Marketing/Sa	ales Supervisor		Theck Appropriate Classification:
WILLFUL FALSE STATEMENTS MADE ON THIS ARE PUNISHABLE BY FINE AND IMPRISONMEN			Individual Applicant
CODE, TITLE 18, SECTIO	CODE, TITLE 18, SECTION 1001.		☐ Member of Applicant Partnership
			Office of Applicant Corporation or Association
	•		Authorized Employee

### NOTIFICATION TO INDIVIDUALS UNDER PRIVACY ACT OF 1974 AND THE PAPERWORK REDUC-TON 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 Section 0.459 of 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.