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

<del></del>			······································					
	l. Applicant's Name and Post Office address				DO NOT WRITE IN THIS BLOCK			
37 . 43	(Street address, city, state, and ZIP Code. See instruction No. 4)							
Souther	u Method	dist Unive	esity					
HARL I	J. THOMA	1501/	,	6196-	EX-PL-	199£		
Southern Methodist University HARL D. THOMASON Dept. of Geology - 0395				0,10 67 12 11.10				
DALLAS	TEXAS	75275			_ )	•		
				61	18.9P /SI	100154 ) NO 0154 ) NO 0154 ) NO 0154 )		
2(a). Application	for (check	only one box)		2(b). For Modific	ation indicate belo	w: A/L		
New station		lodification of existin	g authorization	File No.: Call Sign:				
3. Application f	or Modificati	on: Check the bo	ox beside all par	ticulars to be more	lifted Chook atthor	a addition as se		
placement to	ndicate whe	tner the change	is an addition of	or a replacement o	f parameters in th	e current authorization		
FREQUENCY -		EMISSION -	-	DOWER -	Loc	CATION -		
addition or	replacement?	addition or	replacement?	addition or [	replacement?	addition or replacement		
OTHER PARTICUL	ARS - addition	or replacement? (Dec	coriba holow or in	attached EXHIBIT No.	,			
OTHER PARTICUL	AND - addition	or replacement? (Des	cribe below or in	attached EXHIBIT No.	)			
	Operation (se	e instruction be	low)					
Frequency (state whether kHz or MHz)		POWER	,	EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH		
(A)	(B)	(C)	(D)	(E)	(F)	(G)		
1626.5 to	RHC	25dBw	+					
JUCIL MARE	<u> </u>	ZJapw	Peak	21 KGIW	O-OPSK	see below *		
	<del></del>	<u> </u>						
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			<del> </del>			<del> </del>		
				-				
(A) List each from	equency or f	requency bands	separately. (If m	ore space is requi	red, attach as EXH	IBIT No.		
(B) Insert maxi	num R.F. outp	out power at the	transmitter ter	minals. Specify ur	nits.			
(C) Insert maximumits.	num effectiv	e radiated powe	r from the ante	enna (If pulsed em	ission, specify pea	k power). Specify		
	M" or "DEAV"	(See definitions	in Doub El					
				y. (See Section 2.20	) of FCC Pules)			
(F) Insert as app	propriate for	the type of mod	iulation:	y. (500 500 HOII 212)	n of fee Rules,			
		f keying in baud						
		lating frequency	r;					
(3) frequency (4) pulse dur								
	-	escribe in detail	in the space pro	vided below				
(G) Describe how	v the necesse	ry bandwidth w	vas determined	In space provided	below. FCC	Form 442 - Page 2		
te: Bandwidt	hs establ	ished by the	Internation	ral Macitime	Satellite Occan	March 1996		
IN the 'I	YMARSAT'	system of	sotellite a	ommunication	z.	tor use		

5(a	). Propos	sed location of trans	mitter and transmitting	antenna (che	eck o	only one box to indicat	e type of operation):
	☐ F	IXED/BASE	MOBILE	,		BASE AND MOBILE	
5(b	). If per	manently located at	a FIXED location, give b	elow:		5(c). If mobile, describ	e the exact area of
Sta	te 	County	City or Town			operation withouthe	continental
Nu	mber an	d street (or other inc	dication of location)			united State	
5(b)	(1). Enter	geographical coordiantes e	exact to the nearest second (s	ee instruction 10	0)	5(c)(1)Enter geographical coccenter of mobile operation	
Nort	h Latitude	(DD-MM-SS)	West Longitude (DD-MM-SS	"		North Latitude	West Longitude
	0	, , , , , , , , , , , , , , , , , , ,	0			°N29.33° "	°W 103.67°
5(d)	. Datum	(see instruction 10):		NAD 27 [		NAD 88	
	If "YES".	give the following	er than radar) used? 💢 information:	YES [		NO	
	(a) Widt	h of beam in degree	s at the half-power poin	nt			
	(b) Orien	tation in horizontal	plane <u>varies</u> * with different	(c) Orle	entat	tion in vertical plane	Varies
7.	Is this a	uthorization to be us	ed for fulfilling the rec			vernment contract wi	th an agency of the
		States Government?			<u>\</u>		g, ·
		attach as EXHIBIT Nand contact number.	oa narr	_			nent project,
			ction of a foreign gove	rnment?			er export to be employed
		attach as EXHIBIT Notes the foreign govern	o, the folment concerned.		M mati		ct number and the
			ed for providing community the research project).	nications esse	_	al to a research projec	t? (The radio communi-
1	(a) A des (b) A sho	scription of the natuowing that the comm	oa narra re of the research proje nunications facilities requestions facilities	ative statement of being cond quested are ne	nt p ducte ecess	provding the following ed. sary for the research	
	ln detail	the following:					tive statement describing
	and t	heory of operation.	research and experiment ought to be accomplished.		sea	including description of	or equipment
	(c) How	the program of expe	erimentation has a reaso of the radio art, or is alo	nable promise			evelopment, extension,
	in this	application:	-5 years				experimentation proposed
(b	will be	required:					
12.			of this application come impact (see instruction !		_	1.1307 of the FCC Rules, YES 🔀 NO	such that it may have a
	If "YES	", attach as EXHIBIT	No ar	n Environmen			i by Section 1.1811.
13.		low transmitting equality equal ACTURER	ipment to be installed (	if experiment MODEL NU			NO. OF UNITS
		AMERICAN	e).	MLINK 5	00	0"	1
	Herma	low, VA-					

14.	Is the equipment listed in Item 13 capab	e of station	n identification pur	rsuant to Section 5.152?	区。	YES		ио	
15.	Will the antenna extend more than 6 more than 6 meters above the building, than a building?			be mounted on an ext					
	If "YES", give the following (see instruction) Overall height above ground to tip of		_						
	(b) Elevation of ground at antenna site	above mea:	n sea level is	meters.					
	(c) Distance to nearest aircraft landing area is kilometers.								
	(d) List any natural formations of existithe opinion of the applicant, would aeronautical hazard of the antenna.							in	
	(e) Submit as EXHIBIT No	ve ground i	for all significant f	eatures. Clearly indica					
16.	Applicant is: (Check only one box)						· · · · · · · · · · · · · · · · · · ·		
	☐ INDIVIDUAL ☐ ASSOCIATION		PARTNERSHIP	☐ CORPORATION					
	OTHER (describe in space provided	below)							
	Educational Institut								
17.	Is applicant a foreign government or a	representat	lve of a foreign go	vernment?		YES	区	NO	
18.	Has applicant or any party to this applicant				d or l	had any			
	application for permit, license or renew.  If "YES", attach as EXHIBIT No		-		_ [	YES	Ø	NO	
<u>.                                    </u>	revoked and relate circumstances.	a stat	tement giving can :	agn of ncease or pera	1111				
ر <sub>ة</sub> .	Will applicant be owner and operator of	the station	n?		Ø	YES		NO	
20.	Give name, title, and telephone number	(include ar	ea code), and Intern	et e-mail address (if a	applic	able) of	perso	on .	
	who can best handle inquiries pertainin  KARL D. THOMASON			48-2760 (2798	<b>?</b> )				
	CHIEF ENGINEER		FAX 214-7						
21.	APPLICANT ANTI-DRUG ABUSE CERTIFICA	TION:	<u> </u>						
	By checking "YES", the individual application of she is not subject to a denial of fer conviction pursuant to Section 5301 of the e.g., corporation, partnership or other unsubject to a denial of federal benefits, processing the subject to a denial of federal benefits, processing the subject to a denial of federal benefits, processing the subject to a denial of federal benefits, processing the subject to a denial of federal benefits, processing the subject to a denial of federal benefits, processing the subject to a denial of federal benefits.	deral bene ne Anti- Dr incorporate	fits, including FCC rug Abuse Act of 198 ed association, certi-	benefits, as a result of 88, 21 U.S.C. 862. A non- fies that no party to t	f a dr indiv he ap	ug offe vidual a plicatio	nse ipplica n is		
	see 47 CFR 1.2002(b).				X	YES		NO	
22.	List below all exhibits in numerical sequ	ence and t	the item number of	form requiring the e	xhibit	dentii	îled.		
ЕХНІ	BIT NUMBER ITEM NO. OF FORM EXHIBIT	NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER		ITEM N	O. OF FC	DRM	
	, 0			<del> </del>				<del></del>	
	4				+				
					+			<del></del>	

#### 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
  - (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.

20.00

Signed and dated this	26	da	y of	<u> </u>	, , :	19 <b>76</b>
Name of Applicant	Southern					
		lmust correspond	pith name (	given ongpage ii	<b>n</b>	
By KARL	D. THOMA	sow		Kal D.	Thomass	n
	(print)			lsignatu	re)	
Title CHIEF	ENGR.					
Check appropriate classif	lcation:					
☐ Individual applicant	Member of	of applicant partne	rship			
Authorized employee	office of	applicant corporat	lon or ass	ociation		
WILLFUL FALSE STATEMENTS A 18 Section 1001), AND/OR REV	OCATION OF ANY	STATION LICENSE	OR CONS			
Section 312(a)(1), AND/OR FORF	ELLUKE IU.S. Code	, I tile 47, Section	<del>5031.</del>			

## 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 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 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. address.

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.

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