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

		Office address			O NOT WRITE IN T	HIS BLOCK		
	s, city, state, s	and ZIP Code. See	instruction	File No.				
No. 4) Orbital Sciences Corporation 21700 Atlantic Boulevard Dulles, VA 20166				0010-EX-ML-1999				
2(a). Application	for (check or	nly one box)		2(b). For Modificat	tion indicate belov	w;		
New station	☑ Mod	lification of existing	authorization	File No: 6296-E	EX-ML-1998 Call	Sign: WA2XG0		
E. Application for placement to in	r Modification ndicate wheth	: Check the box er the change is	beside all pars an addition of	rticulars to be modified a replacement of	fled. Check either parameters in the	addition or re- current authorization		
FREQUENCY -		☐ EMISSION -		POWER -	Loc	ATION -		
addition or			replacement?			addition or Treplacement?		
4. Particulars of				ATSAT/T1 and				
Frequency (state whether kHz or MHz)		POWER		EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (KHz)		
(A)	(B)	(C)	(C)	(E)	(F)	(G)		
401 5 MII-	CII	0 1771	72 - 12	OODGV	576 What	1576 WH-		
401.5 MHz	6W	8 dBW	Peak	OQPSK	576 Kbps	576 KHz Bandwidth		
						Null-Null		
				 				
(E) Insert maxi units. (I) Insert "MEA (E) List each ty (F) Insert as ap (I) the max (2) maximum (3) frequency (4) pulse dum	mum RF. outp mum effectiv N" or "PEAK" pe of emission propriate for imum speed of m audio modulity deviation of ration and rep	cut power at the e radiated power (See definitions in separately for the type of modificating frequency of carrier; petition rate.	transmitter to be from the and in Part 5). each frequential title in the contract of the cont	more space is requierminals. Specify untenna (If pulsed en	nits. nission, specify per			
		escribe in detail ry bandwidth v	_	provided below. d in space provided	below. FC	CC Form 442 - Page 2 March 1996		

imber imber imber imber ich(i). En orth Latit o if "Y) (a) W (b) Or is thi Unite	county and street (or other in the geographical coordinates tude (DD-MM-SS) cum (see instruction 10): directional antenna (other in the following by the following of the following in the following of the foll	City or Town dication of location) exact to the nearest secon West Longitude CD-Mi o ner than radar) used? information: at the half-power plane	nd (se	nad 27		580 KM ci 97.75 degr 96.27 minu	rcular rees in ate or	the exact area of LEO orbit nclination bit period rdinates of the approximates instruction 10.) West Longitude o
imber (i) (i) End (ii) Dat (ii) Dat (ii) Is a d (if "Y) (a) W (b) Or Is thi Unite	and street (or other in and street (or other in the geographical coordinates at tude (DD-MM-SS)	west Longitude CD-Mino of location) West Longitude CD-Mino of location of loc	M-SS)	NAD 27	10)	580 KM ci 97.75 deg1 96.27 minu 5(cX)Enter geogra center of mobile North Latitude 0 N/A NAD 83	rcular rees in te or aphical coor operation (nclination bit period rdinates of the approximates see instruction 10J West Longitude
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Is a d If "Y) (a) W (b) Or Is thi Unite	tum (see instruction 10): directional antenna (oth EST, give the following lidth of beam in degree rientation in horizontal is authorization to be u	ner than radar) used? information: as at the half-power plane	, Dolr	NAD 27		0 N/A NAD 83		· .
Is a d If "YI (a) W (b) Or Is thi Unite If "YI	tum (see instruction 10): directional antenna (oth ES, give the following Vidth of beam in degree rientation in horizontal is authorization to be u	ner than radar) used? information: as at the half-power plane	poir	NAD 27 YES		N/A NAD 83	"	0
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If "Y] (a) W (b) Or Is thi Unite	ES, give the following /idth of beam in degree rientation in horizontal is authorization to be u	information: s at the half-power plane	poir		X	ИО		
(a) W (b) Or Is thi Unite	Vidth of beam in degree rientation in horizontal is authorization to be u	s at the half-power plane		nt				
(b) Or Is thi Unite	rientation in horizontal	plane		1t				
Is thi Unite	is authorization to be u			(a) 0	\ - ->+=	tion in transitor	l plane	
Unite		sed for fulfilling the		(G) ()Lielina	don in veruca.	i biane	
Unite			e req	uirement	of a g	overnment con	tract wit	th an agency of the
				YES		NO	= · · · • •	
	EST, attach as EXHIBIT 1	Vo a.	חברת		-		FOVERN TO	ent project.
	cy and contact number						60.00	one project
	is authorization to be u				evelop	ing radio equip	ment for	r export to be emplo
.,				YES	abla	NO		
	ES", attach as EXHIBIT As of the foreign govern		e fol	lowing inf	forma	tion: Provide th	ne contra	ct number and the
	is authorization to be un is not the objective of				esse nt		h project	? (The radio commu
ic W	ES", attach as EXHIBIT 1	No 1 or		YES		NO	'allanda	Informations
	description of the nati						OHOWINE	IIII ormation.
(b) A	showing that the comstant showing that existing	munications facilities	req	uested are	nece	ssary for the r	esearch p	project involved.
	the answers to Items	7, 8, and 9, are "NO", a	ttach	as EXHIB	IT No.		a narrat	ive statement descr
	etail the following: he complete program o	research and expen	ime	ntation pro	oposed	including des	eription o	of equipment
aı	nd theory of operation.			_	•	_	-	• •
	he specific objectives s					0	4- 45- 4-	
	ow the program of exp xpansion, or utilization			-				Melobment excension
	e an estimate of the le		_					xperimentation pro
	this application:2							•
	less than 2 years, give to be required:	he length of time in	mo	nths that t	he au	horization req	uested in	this application
	ould a Commission gran				ection	1.1307 of the F	CC Rules,	such that it may he
sign	nificant environmental	impact (see instruct	ion	11)?		YES I	NO X	
If "	YES, attach as EXHIBIT	No	a:	n Environi	mental			i by Section 11311.
	t below transmitting ed NUFACTURER	uipment to be instal	led ((if experim				NO. OF UN
rO	rbital Sciences	Corporation		Exper	imer	ntal		1
		-		• -				a de la companya de

	is the equip	ment listed in Ite	m 18 capable of statio	on identification pursual	nt to Section 5.152?	YES 🖸 NO
i.E.		6 meters above the		ve the ground, or if mou e proposed antenna be i YES X NO		
		re the following (s height above grou		is meter	s.	
	(b) Elevation	n of ground at an	tenna site above mes	an sea level is	meters.	
	(c) Distance	to nearest aircrai	t landing area is			kilometers.
	the opin		nt, would tend to shi	nade structures (hills, tre leld the antenna from a		
	if any, g	giving heights in	meters above ground	d profile sketch of total for all significant feat ting already available.		
13.	Applicant i	S. ICheck only one	ben?			
	☐ INDIVI	DUAL ASS	OCIATION] PARTNERSHIP	CORPORATION	
	☐ OTHER	(describe in space	provided below)			
17. 15.	Has applica	nt or any party to	this application had	ative of a foreign gover i any PCC station license by this Commission?		
		ach as EXHIBIT No ad relate circumsta		atement giving call sign	of license or permit	
19.	Will applica	ant be owner and	operator of the stati	lon?	S	YES NO
20.	who can be	est handle inquirie	es pertaining to this			•
	J. S	unny Lee, Sc	eientist, (703) 406-5988, le	e.sumiyeorbroa	
21.	By checkin he or she is conviction eg. corpora	s not subject to a c pursuant to Section, tion, partnership a denial of federal	dual applicant certif denial of federal ber in 5301 of the Anti-1 or other unincorpora	les that he or she is elignefits, including FCC bearing Abuse Act of 1988, ated association, certified to that section. For defin	nefits, as a result of a 21 U.S.C. 862. A non-in s that no party to the	drug offense dividual applicant, application is these purposes,
::2	List below	all exhibits in nu	merical sequence and	i the item number of fo	rm requiring the exhi	bit identified.
EXI	MBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXMIBIT NUMBER	ITEM NO. OF FORM
	1	9				
					-00	Farm 442 - Dama 4

23 CERTIFICATION:

Attention: Read this certification carefully before signing this application.

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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:

Signed and dated this

- (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.

____day of

February

Name of Applicant Orbital Sciences Corporation
(must correspond with name given on page 1)
By J. Surry LEE
(print) (zignature)
Title Scientist
Check appropriate classification:
Individual applicant
Authorized employee Office of applicant corporation or association
ILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 3 Section 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, section 312(a)(1), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).
NOTIFICATION TO INDIVIDUALS UNDER PRIVACY ACT OF 1974

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 (3060-0085), Washington, DC 20554. DO NOT send completed applications to this middless. 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, PL 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(9), AND THE PAPERWORK REDUCTION ACT OF 1980, PL 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

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