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

L -							
l. Applicant's Name and Post Office address (Street address, city, state, and ZIP Code. See instruction No. 4)  Johns Hopkins University Applied Physics Lab Johns Hopkins Road Laurel, MD 20723-6099 Attn: William Bristow				File No.	DO NOT WRITE IN TH		
				5889-EX-PL-97			
2(a). Application	for (check	only one box)		2(b). For Modific	ation indicate below	<u> </u>	
XX New station	□ м	lodification of exist	ing authorization	File No.: Call Sign:			
E. Application for placement to i	or Modification	on: Check the t	oox beside all par e is an addition o	File No.: ticulars to be mod r a replacement o	ified. Check either		
FREQUENCY -		EMISSION	_	Dower -	LOCA	ATION -	
4. Particulars of	Operation (se		pelow) See Exi	nibit l	MODULATING	NECESSARY BANDWIDTH	
whether kHz or MHz)	<b>(B</b> )	POWER (C)	(D)	EMISSION (E)	SIGNAL (F)	(KH2) (G)	
8-20 MHz	9600W	1.9MW	Peak	MON 22K	See Exhibit 1	22 KHz	
(E) Insert maximumits. (I) Insert "MEA	mum R.F. out mum effecti 'N" or "PEAK"	put power at the radiated power and power and power and power at the p	he transmitter ten wer from the ant ns in Part 5).	minals. Specify u	nission specify peak		
(1) the max (2) maximu:	imum speed	r the type of m of keying in be ulating frequen of carrier;	auds;				

5.a). Proposed location of tr	ansmitter and transmitting  MOBILE	z antenna (check	only one box to indicate BASE AND MOBILE	e type of operation):
5 b). If permanently located State County Alaska Kodiak Isla	City or Town	below:	5(c). If mobile, describe operation	e the exact area of
Number and street (or other				
5 lb)(1). Enter geographical coordian	tes exact to the nearest second	(see instruction 10)	5(c)(1)Enter geographical concenter of mobile operation	• • •
North Latitude (DD-MM-SS)	West Longitude (DD-MM-S	SS)	North Latitude	West Longitude
57° 37′ 3.6″	152° 11	36 "	0 "	0 , "
5(d). Datum (see instruction	10):	NAD 27	NAD 88 Note: Cur	rent GPS Data
<ol> <li>Is a directional antenna</li> <li>"YES", give the following</li> <li>Width of beam in description</li> </ol>	Lane Lane		NO	
	ntal plane		ation in vertical plane	·
<ol> <li>Is this authorization to b United States Governme</li> </ol>		equirement of a g	government contract wi	th an agency of the
If "YES", attach as EXHIB agency and contact num	IT No2, a nar	rrative statement	describing the government	nent project,
<ol><li>Is this authorization to b by stations under the ju-</li></ol>	e used for the exclusive prisdiction of a foreign gov	ernment?		r export to be employed
If "YES", attach as EXHIBI name of the foreign gov	T No the formment concerned.	J YES X	NO tion: Provide the contra	ct number and the
E. Is this authorization to b cation is not the objective	e used for providing comme of the research project).		tial to a research project	t? (The radio communi-
(a) A description of the r (b) A showing that the c	IT No a nar nature of the research pro, ommunications facilities re ng communications faciliti	rrative statement ject being conducted equested are neces	provding the following sted.	
and theory of operation (b) The specific objective	n of research and experime	entation proposed	l including description	of equipment
	on of the radio art, or is a	long line not alre	ady investigated.	
in this application: (b) If less than 2 years, giv will be required:	10 years we the length of time in me			
12. Would a Commission gr	rant of this application contal impact (see instruction		1.1807 of the FCC Rules,	such that it may have a
If "YES", attach as EXHI	BIT No.	an Environmenta		by Section 1.1811.
IE. List below transmitting MANUFACTURER	equipment to be installed	(if experimental MODEL NUME		NO. OF UNITS
University of Sask	atchewan	Prototype		16

	is the equi	pment listed in Ite	em 18 capable of stat	tion identification pursu	ant to Section 5.152?	YES	X N
i.f.		6 meters above th	ne building, or will i	ove the ground, or if mothe proposed antenna be			
	If "YES", give the following (see instruction 9):  (a) Overall height above ground to tip of antenna is15.2 meters.						
	(b) Elevation of ground at antenna site above mean sea level is0 meters.						
	(c) Distance to nearest aircraft landing area isless than 1 kilometers.						
	the opi		ent, would tend to s	made structures (hills, tanded the antenna from			
	The an strip.	tenna array wi The area is	ll be positione wooded and will	d about 1,000' east shield the antenna	t of the Miller Fi	ield land	ling
	if any,	giving heights in	meters above groun	cal profile sketch of tota d for all significant fea hting aiready available.			
1 3.	Applicant	is (Check only one	bex?				
	☐ INDIV	IDUAL AS	sociation [	PARTNERSHIP	CORPORATION		
	John	_		Physics Laboratory	is a non-profit		
<del></del> 17.	Is applican	t a foreign govern	nment or a represen	tative of a foreign gove	ernment?	YES	X NO
				ad any FCC station licens id by this Commission?	se or permit revoked	or had any	7 X NO
		tach as EXHIBIT N nd relate circumsta		statement giving call sig	n of license or permit		
12.	Will applic	ant be owner and	operator of the sta	tion?		X YES	□ no
10).	Give name who can b	, title, and telepho est handle inquiri	ne number (include es pertaining to this	area code), and Internet application.	e-mail address (if ap	plicable) of	` person
		liam Bristow, istow@jhuapl.e		301-953-6000, ex	xt. 3529		
3).		ANTI-DRUG ABUS					
	By checkin	g "YES", the indiv	dual applicant certi	fles that he or she is eli- nefits, including FCC be			
				Drug Abuse Act of 1988,			
				ated association, certifie to that section. For defin			
	see 47 CFR	1.2002(b).	·			X YES	☐ NO
<u> </u>	List below	all exhibits in nu	merical sequence an	d the item number of fo	orm requiring the exh	ibit identi	fied.
EXHIE	BIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	LIEM NO. OF FORM	EXHIBIT NUMBER	ITEM N	O. OF FORM
	1	4a-g					
	2	7					
	3	15e				<del> </del>	
							<del></del>
						<b> </b>	

#### 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:

  (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
  - (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 deted this		aay or	<u>u</u>	, 19 _7/
Name of Applicant	Johns Hopkins Univers	sity Applied Phys	sics Laboratory	
•	inust cor	respond with name given	on page 1)	
By E. M. Portner	r	Em Portre	- 1	
	(print)		(signature)	
Title Assistant Din	rector for Business Ope	erations		
Check appropriate classifi	cation:	·		
Individual applicant	Member of applicant	partnership		
X Authorized employee	Office of applicant of	orporation or associat	tion	
VILLFUL FALSE STATEMENTS M 13 Section 1001), AND/OR REVO Section 312(eX1), AND/OR FORFI	OCATION OF ANY STATION LI	CENSE OR CONSTRUC	•	•

## 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 808 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** anddress. 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, P.L. 98-511, DECEMBER 11, 1980, 44 U.S.C. 5507.

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