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

I. Applicant's Name and Post Office address (Street address, city, state, and ZIP Code. See instruction No. 4) MITRE Corporation 12 Christopher Way Eatontown, NJ 07724			File No. DO NOT WRITE IN THIS BLOCK O160-EX-PL-2001			
2(a). Application	of or (check on	ly one box)		2(b). For Modificat	ion indicate below	;
New station	Mod	fication of existing	authorization	File No.:	Call :	Sign:
E. Application f placement to	or Modification indicate wheth	: Check the box er the change is	t beside all par s an addition o	rticulars to be modified a replacement of	ried. Check either a parameters in the	addition or re- current authorization.
[] FREQUENCY -		EMISSION -		POWER -	LOCA	TION -
		replacement? (Description Description Desc	114 ₁ 11.	attached EXHIBIT No	· · · · · · · · · · · · · · · · · · ·	
Frequency Islate		POWER		EMISSION	MODULATING	NECESSARY BANDWIDTH
whether kHz or MHz)					SIGNAL	(KHz)
(A) 14,000 to	(B) 14.5 Watts	(c) 50.6 dBW	Mean	(E)	(F) 8-128 M	(G) Filtered Bandwidth
14,500 MHz				GID	Symbols per	12MHz
					second Records Noise	
**					Pseudo-Noise Direct Seque	
					Spread Spect	
					-	
(E) Insert max units. (D) Insert "ME (E) List each t (F) Insert as a (I) the max (2) maximu (3) frequer (4) pulse du For comple	AN" or "PEAK" (ype of emission ppropriate for ximum speed of um audio modul ncy deviation o uration and rep ox emissions, de	to power at the control radiated power at the control radiated power at the type of moder keying in baucating frequency from rate. Soribe in detail	transmitter ter from the and in Part 5). each frequential attoricities; it; in the space p		nits. dission, specify peal of of FCC Rules.))
Co Describe n	ow the necessa:	ry panawiath v	vas determine	i in space provided	Delow.	March 1996

	FIXED/BASE	nsmitter and transmitting antenna MOBILE		BASE AND MOBILE	o type or operations.	
b). If p	county County	at a FIXED location, give below:		5(c). If mobile, describe operation	e the exact area of	
				In and around Bedford, MA		
umber	and street (or other	indication of location)				
(1)(1). Ent	ter geographical coordiante	es exact to the nearest second (see instruc	ction 10)	5(c)(1)Enter geographical coc center of mobile operation	* *	
	rude (DD-MM-SS)	West Longitude (DD-MM-SS)	_	North Latitude	West Longitude	
0		0 "		^{42°} 30'	710 14'	
(d). Dat	um (see instruction	10): NAD	27 🗆	NAD 88		
		other than radar) used? X YES		NO		
If "YI	ES", give the following	ng information: rees at the half-power point 2.6	20 Azir	nuth, 2.33° Elevai	tion	
(b) Or	rientation in horizon	tal plane 205.35 degrees (c) Orient	ation in vertical plane	37.728 degrees	
		e used for fulfilling the requireme	nt of a g	overnment contract wi	th an agency of the	
	ed States Governmen	. (2) 153		NO		
	ES", attach as EXHIBI cy and contact num!	T No a narrative stoer.	latement	describing the government	nent project,	
		e used for the exclusive purpose or isdiction of a foreign government		olng radio equipment fo	or export to be employed	
-		☐ YES	\boxtimes	NO		
	ES", attach as EXHIBI of the foreign gov	I No the following ernment concerned.	informa	tion: Provide the contra	act number and the	
		e used for providing communication of the research project).	ns essen		et? (The radio communi-	
If "YI	ES", attach as EXHIBI	T No2 YES T No2 a narrative st	∟ latement	NO provding the following	information:	
(a) A (b) A	description of the r showing that the o	nature of the research project beind communications facilities requested ing communications facilities are in	ig conduc are nece	eted. Sessary for the research		
	the answers to Item tail the following:	ns 7, 8, and 9, are "NO", attach as EX	HIBIT No.	a narra	tive statement describing	
(a) T)	he complete program	of research and experimentation	proposed	i including description	of equipment	
	nd theory of operations and theory of operations and the control of the control o	on. s sought to be accomplished.		4		
(c) He	ow the program of	experimentation has a reasonable on of the radio art, or is along line			evelopment, extension,	
	hin amaliantian. Pi	e length of time that will be requireriodic short-term experi	ments i	in to 2 weeks at a	a time	
(b) If lower	ess than 2 years, giv	e the length of time in months th	at the au	thorization requested in	r Aug UI — to Sept	
		ant of this application come withintal impact (see instruction 11)?	n Section	673	, such that it may have a	
•		BIT No an Envir	اسا onmenta	YES MO l Assessment as require	d by Section 1.1311.	
	below transmitting	equipment to be installed (if expe	erimental DEL NUMI		NO. OF UNITS	
		List as Exhibit 3				
					FCC Form 442 - Page 3	

	Is the equip	oment listed in Ite	m 18 capable of static	on identification pursua	nt to Section 5.152?	YES	мо 🖾	
i.E.c	Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it exter more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building? YES NO							
	If "YES", give the following (see instruction 9): (a) Overall height above ground to tip of antenna is 3.53 meters.							
	(b) Elevation of ground at antenna site above mean sea level is 36.88 meters.							
	(c) Distance to nearest aircraft landing area is kilometers.							
	(d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft and thereby minimize the aeronautical hazard of the antenna.							
				0.6 meters in di vehicle (HMMWV).	ameter and is m	ounted i	n	
	if any,	giving heights in :	meters above ground	al profile sketch of tota I for all significant feat ting already available.				
13.	Applicant	S. (Check only one	pox?					
	☐ INDIV	IDUAL 🗆 ASS	OCIATION	PARTNERSHIP	CORPORATION			
	☐ OTHER	describe in space	provided below)					
17.	Is applican	t a foreign govern	ment or a represent	ative of a foreign gove	rnment? [YES	MO NO	
15.		Has applicant or any party to this application had any FCC station license or permit revoked or had any application for permit, license or renewal denied by this Commission?						
	If "YES", at	tach as EXHIBIT N	aa st	atement giving call sig:] of license or permit	∐ YES :	NO NO	
	revoked an	nd relate circumsta	nces.					
19.	Will applicant be owner and operator of the station?					П ио		
2 KO.	Give name, title, and telephone number (include area code), and Internet e-mail address (if applicable) of person who can best handle inquiries pertaining to this application.							
	who can b	est handre inquire	a pertaining to this	application:				
Ri	chard We	xler, Princip	Le Investigator	, (732) 389-6708,	rwexler@mitre.	org		
in.		ANTI-DRUG ABUS						
				ies that he or she is eli-				
		•		nefits, including FCC be Drug Abuse Act of 1988,		_		
				ated association, certifie				
	subject to see 47 CFR		benefits, pursuant t	to that section. For defin				
					<u> </u>	X YES	∐ NO	
::2.	List below	all exhibits in nu	nerical sequence and	i the item number of fo	rm requiring the ext	nibit identif	ied.	
EX	HBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM N	O. OF FORM	
				•••••				

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 dated this _	21	day of _	June	.19 200/
Name of Applicant	Richard S. L	lexler		
By Richard	d S. Wexler		eg given on page 3)	wh
Title Principle	Investigator		131 31111	
Check appropriate classific				
Individual applicant	Member of applican	t partnership		
Authorized employee	Office of applicant	corporation or	association	
HILLFUL FALSE STATEMENTS MAIN Section 1001), AND/OR REVO	CATION OF ANY STATION	LICENSE OR CO	=	•
	NOTIFICATION TO INDIVID	UALS UNDER P	PRIVACY ACT OF 1974	

NOTIFICATION TO INDIVIDUALS UNDER PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1960

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** address. Individuals are not required to respond to this collection unless it displays a currently valid OMB control number.

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.