Approved	by	OMB
3060-0	006	5

SECTION

FEDERAL COMMUNICATIONS COMMISSION

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FOR FCC	ì			•	•			
FCC USE ONLY						- ·	; -	

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

APPLICANT NAME (Last,	, first, middle initial)			
MAILING ADDRESS (Line	e 1) (Maximum 85 char	acters • refer to Instruction	on (2) on reverse of form)
MAILING ADDRESS (Line	e 2) (if required) (Max	mum 65 characters)		
CITY				
STATE OR COUNTRY (if f	foreign address)	ZIP CODE	CALL SIGN OR FIL	E NUMBER
Fee Filing Guides. Enter in	Column (B) the Fee Mult	or the service you are apply iple, If, applicable. Enter in the number entered in Colu	Column (C) the result obtain	
E A E	FEE MULTIPI (if required)		OR FEE TYPE COLUMN (A)	A FCC USE ONLY
SECTION I		only when you are requesting list more than one Fee T	•	result. in a
(A) FEE TYPE CODE	(B) FEE MULTIPLE (If required)	FEE DUE F	C) DR FEE TYPE COLUMN (A)	R FCC USE ONLY
(2)		•		
(3)		*		
(4)		•		
(5)		*		
ADD ALL AMOUNTS SHOW Through (6), and enter This amount should Eq Remittance.	THE TOTAL HERE.	S (1) TOTAL AMOUNTH THIS OR E	NT REMITTED APPLICATION	arce USE ONLY

APPLICATION FOR NEW OR MODIFIED RADIO STATION AUTHORIZATION UNDER PART 6 OF FCC RULES - EXPERIMENTAL RADIO SERVICE (OTHER THAN BROADCAST)

l.			t Office address and ZIP Code. S	ee instruction	File Na	NOT WRITE IN T	THIS BLOCK
		C (1 1	1 1 1		O'N E Madiologii	-m imalanta 1.1.	
2()	·	for (check of	,	al Labor	2(b), For Modificati	on malcare below	7:
	New station		dification of existing		File No.		Signi
e.	placement to	ndicate wheth	ner the change l	k beside an par Is an addition o	ticulars to be modifi r a replacement of p	parameters in the	current authorization
, [] F	REQUENCY -		MEMISSION -		POWER =	Loc	ATION -
1.	addition or	replacement?	addition or	replacement?	addition or re	placement?	ddition or replacement?
	OTHER PARTICUL	.ARS - addition o	replacement? (Desc	cribe below a in a	attached EXHIBIT No		
4. Ì	Particulars of	Operation (see	e Instruction be	Low)			
	Frequency (state ether kHz or MHz)	POWER			EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (KH2)
~ ~ —	(A)	(B)	(C)	(D)	(E)	(F)	(G)
•							
						· · · · · · · · · · · · · · · · · · ·	
~							
(I\$ (E) (C)	Insert maxl	mum R.F. outpu	t power at the	transmitter ter	nore space Is required minals. Specify unit enna (If pulsed emiss	S)
	Insert "MEALLIST each ty Insert as ap (1) the maxl (2) maxlmum (3) frequenc (4) pulse dur For complex	pe of emission propriate for to mum speed of a audio modulary deviation of ation and repertures.	the type of mod keying In band atling frequency carrier; stition rate. wribe in detail i	each frequency ulation: s n the space pro			Form 442 Page 2
(3)	nescribe hor	w the necessar	y bandwidth w	as determined	in space provided be	NOW.	March 1996

(5,0), proposed location of trar	nsmitter and transmitting	antenna (check	only one box to indicate	ate type of operation):
☐ FIXED/BASE	MOBILE		BASE AND MOBILE	
15 15). If permanently located a	t a FIXED location, give be	elow:		be the exact area of
State County	Clty or Town		operation	
Number and street (or other !	ndication of location)			
fillined and sites (or other i	indication of location,			
535)(1). Enter geographical coordinates	exact to the nearest second (se	ee instruction 10)		oordinates of the approximate
\orth Latitude (DD-MM-SS)	West Longitude (DD-MM-SS)		center of mobile operation Nath Latitude	West Longitude
0 Control Cont	0			" 0 , ".
v				
5,4), Datum (see instruction 10):	NAD 27	NAD 88	
E. Is a directional antenna (o	ther than radar) used?	YES 🗌	NO	
If "YES: give the following				
(a) Width of beam in degree (b) Orlentation in horizonte	es at the half-power point	(a) Orient	otion in vertical plans	
(b) Orientation in not izonte	u prane	(G) Offend	ation in version plane	
7. Is this authorization to be United States Government		uirement of a g	overnment contract w	olth an agency of the
If 'YES", attach as EXHIBIT	No a narra		 -	ment project ,
agenoy and contact number				
E. Is this authorization to be a by stations under the Juris	used for the exclusive pur diction of a foreign gover	pose of develop nment?	lng radlo equlpment f	or export to be employed
If "YES", attach as EXHIBIT name of the foreign gover	No the foll nment concerned.	YES owlng Informat	NO lon: Provide the contr	act number and the
S. Is this authorization to be u cation is not the objective	used for providing commu of the research project).	nlcations essent	ial to a research proje	ct? (The radio communi-
If "YES: attach as EXHIBIT	Noa narra	tive statement	provding the following	g Information:
(a) A description of the nat(b) A showing that the com(c) A showing that existing	munications faoilitles requ	iested are neces	sary for the research	project involved.
1), If all the answers to Items?	7. 8. and 9. ere "NO . attach	as FXHIBIT No.	a narra	tive statement describing
in detail the following: (a) The complete program o and theory of operation.	f research and experlment			_
(b) The specific objectives s				
(c) How the program of exp	perlmentation has a reason	able promise of	f oontribution to the d	evelopment, extension,
expansion, or utilization lia. Give an estimate of the le	of the radio art, or is along			avnarimantation man
In this application:		-	piete the program of	experimentation proposed
(b) If less than 2 years, give t will be required:	the length or tlme In mon	ths that the autl	norlzatlon requested In	n this application
 Would a Commission gran significant environmental 			1.1307 of the FCC Rules YES NO	, such that it may have a
If "YES", attach as EXHIBIT	No an	Environmental		d by Section 1.1311.
E. List below transmitting eq MANUFACTURER	ulpment to be installed (If	experimental, MODEL NUMBE		NO. OF UNITS

14.	Is the equ	lpment listed in	tem 18 capable of sta	tion identification purs	uant to Section 5.152?	q yes	П ио
î.Eu	more than than a bu If "YES", g (a) Overal (b) Elevati (c) Disland (d) List an the opi	n 6 meters above lldlng?' Ive the followlng l height above ground at a ce to nearest already natural formati	the building, or will (see instruction 9): ound to tip of antennantenna site above number in landing area is one of existing mancant, would tend to see the building area is consistent of the second of the building area is consistent or second or	ove the ground, or if methe proposed antenna by YES NO na is methe nean sea level is -made structures (hills, to sheld the antenna from	trees, water tanks, tow	kllomete	re other rs. hlch, in
	if any	glving h eights i r	a meters above groun	cal profile sketch of tot ad for all significant fea hting already available.	atures Clearly indicate	supporting gaisting p	bullding, portion,
13.	Applicant	is: ICheck only one	boni				
	☐ INDIV	ZIDUAL AS	SSOCIATION [PARTNERSHIP	☐ CORPORATION		
	OTHE	R (describe in spa	ce provided below)				
		•	,				
17.	Is appllcan	t a foreign gover	nment or a represen	tative of a foreign gove	ernment?	YES	□ NO
19.	Has application	ant or any party	to this application ha	nd any FCC station licenters by this Commission?	se or permit revoked o	or had any	
		_		tatement giving call sig	<u> </u>	1 22	⊔ ио
		nd relate olroumst					
15.	Will applle	cant be owner and	d operator of the star	tlon?		YES	☐ NO
S(O).	Glve name	e, title, and telepho	one number (include es pertaining to this	area code), and Internet	e-mall address (if app	olicable) of	person
	who can b	est nandie mquiri	es bertarming to this	application.			
. -							
SH.	By checking he or she is conviction e.g., corpora	s not subject to a pursuant to Section, partnership a denial Of federa	Idual applicant certifudenial of federal be on 5301 of the Antlor or other unincorporate	fies that he or she is ell nefits, including FCC be Drug Abuse Act of 1988, ated association, certified to that section. For defin	onefits, as a result of a 21 U.S.C. 882, A non- In 28 that no party to the	drug offen dlvldual ar appllcation these purpo	oplicant. is is oses,
	* * * * * *			1.1.1.		YES	∐ No.
32. 	List below	all exhlblts in nu	merica l sequence and	d the item number of fo	orm requiring the exhi	blt identif i	.ed.
EXHI	BIT NUMBER	ITEM NO. OF FORM	REMUN TIBIHXE	LIEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO.	OF FORM
						 	
					l	[

213 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 Btation; 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 applloant is willing to finance and conduct the experimental program with full knowledge and understanding of the above Ilmitations: and
- (g) The applicant walves 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	day of	, 19
Name of Applicant		
	st correspond with name given on page 1)	
Ву		
(print)	` (signature)	
Title		
Check appropriate classification:		
☐ Individual applicant ☐ Member of appl	licant partnership	
☐ Authorized employee ☐ Office of applic	ant corporation or association	
NILLFUL FALSE STATEMENTS MADE ON THIS FORM ARTHS Section 1001), ANDOR REVOCATION OF ANY STATISTICATION 312(2)1), ANDOR FORFETURE (U.S. Code, Title	ON LICENSE OR CONSTRUCTION PERMIT	,

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 the 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 20564. DO NOT send completed applications to this individuals are not required to respond to this collection unless it displays a currently valid CMB control number.

"HE 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. 6507.

FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

INSTRUCTIONS FOR COMPLETING FCC FORM 442

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

These instructions should be removed from the form before the form is mailed to the Commission.

General Information and Instructions:

Before this application is prepared, the applicant should refer to Parts 0, 1, 2, 5, and 17 of the Rules and Regulations of the Commission. Copies of these rule parts, 47 CFR Parts 0 through 19 (1 volume), may be purchased from the Superintendent of Documents, Government Printing Office (GPO), Washington, DC 20402. You may telephone the GPO Order Desk at (202) 512-1800 for current prices.

APPLICATION FILING PROCEDURES :2.

Applicants are required to submit one payment by check, bank draft or money order with each application. Page 1 of the FCC Form 442 must show the correct fee type code and remittance. Check, bank draft or money order must be made payable to the Federal Communications Commission, and be drawn upon a United States financial institution. Foreign, postdated, altered, or third-party checks are not acceptable. Do not send cash. Completed applications should be submitted to the appropriate address listed below. For amount of fee, applicant should refer to the OET FEE FILING GUIDE.

FEDERAL COMMUNICATIONS COMMISSION

Experimental Radio Service P.O. Box 350320

Pittsburgh, Pa 15251-5320

b. HAND-DELIVERY OR COURTER SERVICE: FEDERAL COMMUNICATIONS COMMISSION

c/o Mellon Bank Three Mellon Bank Center 526 William Pann Way 27th Floor, Room 153-2713 Pittsburgh, Pa 15259-0001 Attention: Wholesale Lockbox Shift Supervisor

*Applications hand delivered or sent by courier should be placed in an inner envelope with address "a" and then submitted to address "b".

CLASSIFIED APPLICATIONS: Applications that are classified (CONFIDENTIAL OR SECRET) for National Security purposes must be filed as follow: Submit page 1 of FCC Form 442, showing the appropriate fee code, payment and a letter explaining that this is a classified application to address "a" above; submit the remaining application to the following address: C.

> FEDERAL COMMUNICATIONS COMMISSION Room 411
> 1919 M Street, N.W.
> Washington, D.C. 20554

FEE TYPE CODE(S):

Type of Application: Fee Type Code:

a. New station authorization EAE
b. Modification of authorization EAE
c. *Confidentiality request EAE

*Confidentiality Request: Applications filed with a request for the Commission to withhold any information from public inspection, pursuant to FCC rule provisions in 47 CFR 0.457(d), shall use the additional Fee Type Code EAE. These applications must also contain a letter justifying the withholding of information in accordance with 47 CFR 0.459 of the Rules.

If a corporation, state corporate name; if a partnership, state names of all partners and the name under which the partnership does business; if an unincorporated association, state the name of an executive officer, the office held by him, and the name of the association. If this application involves a station that is now authorized, the name shown must correspond exactly with that name shown on the current authorization.

- 5. Applicants should make every effort to file complete applications. Failure to do so may result in a rejection and return of the application or a delay in the processing of the application.
- 5. Each document required to be filed as an exhibit **should** be **current as** of the date of filing. **If** a current and **complete** answer to any **ques**tion other than questions 1, 2 and 3, **is** already on file **within** the **Commission**, **then** the question may be answered by reference to such **information** on file.

To refer to the material on file it is necessary that the applicant provide sufficient information to locate the previously filed material. If filed with a station application, furnish name of applicant or licensee, call sign, file number, and date of filing. In other cases furnish date of filing and describe the matters in connection with which filed.

Each document or statement required to be filed as an exhibit should be numbered separately. Exhibit numbers should be shown in the blank space provided for this purpose in the individual items of the application form. Where the space left in the application for narrative answers is insufficient a separate statement, bearing an exhibit number in sequence with other exhibits numbered in the application, should be attached to the application and reference to the statement's exhibit number should be made in the answer space.

When the antenna structures proposed to be erected will extend more than 6 meters above ground or above an existing building, the applicant must analyze the structures pursuant to Part 17, Subpart B, of the FCC rules, to determine if notification to FAA is required. If notification is required, the applicant should submit FAA Form 7460-1, (Notice of Proposed Construction or Alteration) to one of the FAA Regional Offices listed on FCC Form 854, (Request for Antenna Height Clearance and Obstruction Marking and Lighting Specifications).

- 1.0. The latitude and longitude for locations in the United States and the Caribbean Islands must be referenced to either the North American Datum of 1927 (NAD 27) or 1983 (NAD 83). Topographical maps indicate which datum was used. Coordinates (latitude and longitude) should be accurate to within +/- 5 m of the National Spacial Reference System.
- I.i. If the proposed facility may have a significant environmental impact, as defined in section 1.1307 of the KC rules, the applicant must submit an environmental assessment as required by Section 1.1311.