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

1. Applicant's No		1 212 2		on File N	_	NOT WRITE IN	THIS BL	оск	-		
No. 4)	(Street address, city, state, and ZIP Code. See instruction No. 4) Hughes Aircraft Company P.O. Box 902 El Segundo, CA 90245-0902				5586-EX-PL-97						
El Seg	junac,	0.77									
2(a). Application	K Jam	noigh ED	121/+1/6	2(b) Fo	r Modificat	tion indicate belo					
					i woan toa	2011 111415415 2015					
New station		dification of exist		File No			l Sign:				
3. Application for placement to in	r Modificatio idicate whet	n: Check the l her the change	oox beside al e is an additi	l particulars on or a repla	to be modificement of	parameters in th	e curre	on or r nt auth	orization.		
FREQUENCY -		☐ EMISSION	-	POWE	R -	Lo	CATION	-			
addition or	replacement?		or 🔲 replacem	ent? 🗍 add	lition or 🔲	replacement?	addition	or 🔲 re	eplacement?		
OTHER PARTICULA	.RS - addition	or replacement? (E	Describe below (or in attached E>	HIBIT No)					
		·			_						
4. Particulars of	Operation (se	e instruction	below)								
Frequency (state whether kHz or MHz)		POWER		EM	IISSION	MODULATING SIGNAL	NECE	NECESSARY BANDWIDTH (KHz)			
(A)	(B)	(C)	(D)		(E)	100 AS -500	A M/s	(G)	KHzprf		
900 - 1/23 MHZ	200 W	NMS	100 W	BOM!	OPON "	100 NS -300	7 ~~	"	// // // // // // // // // // // // //		
0 - 10000 AHZ		7 11 V 11	,1 11			11 11	"/	11	11		
(A) List each from	equency or f	requency band	d separately.	(If more space	ce is requir	ed, attach as EXI	HIBIT N	o. <u>1</u>			
(B) Insert maxim	num R.F. out	put power at t	he transmitte	er terminals.	Specify un	its. issian specify pe	ak now	rer) Spe	ecify		
(C) Insert maximumits.	num errecuv	ve radiated po	wer from th	e antenna (n	puised em	ission, specify pe	an pon	O17. Op.	oon y		
	N" or "PEAK"	(See definition	ns in Part 5).								
					Section 2.20	of FCC Rules.)					
	-	the type of n									
		of keying in b									
	(2) maximum audio modulating frequency; (3) frequency deviation of carrier;										
-		epetition rate.			_						
		lescribe in deta ary bandwidth				below F(CC Form	1 442	- Page 2		
	w the necess	an v Danid Willi	was until	mirou ili buact	> brosined	NOID II.		Mar			

	ed location of transi IXED/BASE	nitter and transmitt	ng antenna (che	eck	only one box to indicat BASE AND MOBILE	te type of ope	eration):
5(b). If per	manently located at	a FIXED location, giv	e below:		5(c). If mobile, describ	e the exact a	area of
State	County	City or Town			operation		7
		1141C lesstion)			see E,	(4/5//	3
Number an	d street (or other inc	ileation of location)					
		*					
5(b)(1). Enter	geographical coordiantes e	exact to the nearest seco	nd (see instruction 1	0)	5(c)(1)Enter geographical co center of mobile operation		
North Latitude	(DD-MM-SS)	West Longitude (DD-Mit	M-SS)		North Latitude	West Longitud	
0	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 -	. "		SEE. " EXHIBIT 3"	SEE	- T
				i	ENIBITS	CAIID	
	(see instruction 10):		NAD 27		NAD 88		
	ectional antenna (oth		YES	\mathbf{Z}	NO		
	give the following		point				
	th of beam in degree ntation in horizontal			enta	tion in vertical plane		
(D) Oriei	ntation in norizontal	plane	(6) 011	01100	Fillian piane		
7. Is this a	uthorization to be us	sed for fulfilling the	requirement of	ag	overnment contract w	ith an agency	of the
	States Government?		YES	\boxtimes	NO		
If "YES"	attach as EXHIBIT N	Io a :	narrative stateme	ent	describing the govern	ment project,	
	and contact number.						
8. Is this a by stati	authorization to be us ons under the jurisd	sed for the exclusive letion of a foreign g	purpose of deveroment?	elop	ing radio equipment fo	or export to l	oe employed
		•	YES	X	NO		
	attach as EXHIBIT Not the foreign govern		e following info	rma	tion: Provide the contr	act number a	nd the
9. Is this a	authorization to be us s not the objective o	sed for providing co	c <u>t).</u>	E-3	tial to a research project	ct? (The radio	communi-
10 "V PC"	attach as FYHIRIT N	Jo a	☐ YES	ent	NO provding the following	g information	n:
(a) A de	escription of the nati	ire of the research	project being con	nduc	ted.		
(b) A sh	nowing that the comp	nunications facilities	requested are r	nece	ssary for the research	project invo	lved.
(c) A sh	nowing that existing	communications fac	ilities are inadeq	luate). '		
10 10 011 11	ne answers to Items 7	R and C are "NO" a	ttach as EXHIBIT	No.	1 a narra	ative stateme	nt describir
in detai	il the following:						
	complete program of theory of operation.	research and expen	rimentation prop	oseo	including description	or equipmen	. .
(b) The	specific objectives s	ought to be accompli	shed.				
(c) How	the program of exp	erimentation has a	reasonable promi	se o	of contribution to the d	levelopment,	extension,
ll(a). Give	ansion, or utilization an estimate of the le	ngth of time that w			mplete the program of	experimentat	lon propos
in this	s application: 5	YEAVS he length of time in	months that the	e au	thorization requested i	n this applica	tion
will b	e required:						
signif	icant environmental	impact (see instruct	ion 11)?		1.1307 of the FCC Rules YES NO		
If "YE	S", attach as EXHIBIT	No	an Environme	enta	l Assessment as require	ed by Section	1.1311.
	elow transmitting eq					NC	o, of units
1L.~	hes Aircra	ft Company	EXPLIN	1EA	UTAC		
Hug	no- n		•				
-							

		•							
14.	Is the equip	pment listed in Ite	em 13 capable of stati	on identification pursua	ant to Section 5.152?		YES	×	NO
15.	Will the ar more than than a buil	6 meters above th	re than 6 meters abo ne building, or will th	ove the ground, or if money the proposed antenna be YES NO	ounted on an existin mounted on an exis	g build	ding, v	will it re oth	exter ler
	If "YES", gi	ve the following (height above gro	(see instruction 9): and to tip of antenna	a is mete	rs.				
	(b) Elevation	n of ground at an	ntenna site above me	ean sea level is	meters.				
	(c) Distance	to nearest aircra	ft landing area is _			ki	llomete	ers.	
	the opin	natural formation natural formation of the application hazard of the	int, would tend to sh	made structures (hills, triceld the antenna from	rees, water tanks, to aircraft and thereby	wers, e y mini	etc.) w .mize t	hich, he	in
 .	if any,	giving heights in	meters above ground	al profile sketch of tota i for all significant fea ting already available.	al structure includin tures. Clearly indice	g supp	orting sting	build portio	ling, n,
ب. بر	Applicant i	s. (Check only one	boxi						
	☐ INDIV	IDUAL ASS	SOCIATION [PARTNERSHIP	Z CORPORATION				
	CT OTHER	(december in case	e provided below)						
7. 8.	Has applica	nt or any party t	o this application had	ative of a foreign gove d any FCC station licens by this Commission?		d or h	YES ad any YES	X X	NO NO
	If "YES", att		o a s	tatement giving call sig	n of license or perm				NO
•	Will applica	ant be owner and	operator of the stat	ion?		X	YES		NO
žÕ.	Give name	title, and telepho	ne number (include es pertaining to this	area code), and Internet application.	e-mail address (if a	applica	.ble) o	f pers	on
		_			. 9 1/		. \		
<u>G</u>	eneral:	Rick Sam	101an (310) 616	-3912 Tehnical	Bill Kessle	er (<u> 30)</u>	334	<u>1-4</u> 7
21.	APPLICANT	ANTI-DRUG ABUS	E CERTIFICATION:	Non that he on ahe is all	wible for this licens	o This	r roaus	roc th	nat
	By checkin	g "YES", the indivi s not subject to a	idual applicant certii denial of federal bei	les that he or she is eli nefits, including FCC be	enefits, as a result of	fadru	g offe	ense	iai
	conviction	pursuant to Section	on 5301 of the Anti-	Drug Abuse Act of 1988,	21 U.S.C. 862. A non-	- indiv	idual a	applica	ant,
	eg, corpora	tion, partnership denial of federa	or other unincorpora	ated association, certification to that section. For defi-	es that no party to t nition of a "party" f	ne app for the	phoano se pur	poses,	ı
	see 47 CFR		. Donorray paradativ		• •	12 }-			NO
 22.	List below	all exhibits in nu	merical sequence and	i the item number of fo	orm requiring the e			fied.	
	IBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER			NO. OF F	:0RM
	7	4.10.15							
	2	15							
	Za 3	15							
	3	5°C				-			
		<u> </u>							

28. CÉRTIFICATION:

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.

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Signed and dated this, 19 96
Name of Applicant Hughes Aircraft Company [must correspond with name given of page 1]
By R. J. Samoian RHamoian
Title Radio Frequency Coordinator
Check appropriate classification:
Individual applicant
Authorized employee Office of applicant corporation or association
LFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18 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 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** 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 91, 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.