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

A. Applicant's Na (Give street, c			address Code. See Instruction	DO NOT WRITE IN THIS BLOCK				
Hughes	Air	craft	Co	File No. 1125-EX-PL-89				
P.O. Bo				1120	x - PC-09			
El Segu	undo	, CA	90245					
Attent	ion:	Α.Υ.	Wilkerso					
	. • ., .		E2/S104					
2.(a) Application for	r (chec	k only one be	9x)	2.(b) For Modification indicate below				
X New Stati	on	□ Мо	dification of existing	File No.:	Call Sign:			
3. Application for	modific	ation indicate	change in (check al	l that apply)				
☐ Frequency	,		Emission	☐ Power	☐ Location			
Other par	iculars	(describe hel	low or in attached F	xhibit No)				
Other part	ilculais	(describe bei	ow or in anachea L	inon 110				
4. Particulars of C	neratio	on (See instru	ctions helow)	 				
Frequency (State	Portune	The state of the s		 	, , , , , , , , , , , , , , , , , , , 		NECESSARY	
Whether kHz or MHz)			POWER		EMISSION	MODULATING SIGNAL	BANDWIDTH (kHz)	
MHZ (A)		(B)	(C)	(D)	(E)	(F)	(G)	
3625-4200		mw	200 W	mean	A,0 A,0	-	_	
5850-6425		mw	200 W	mean		<u>-</u>	ļ	
10950-11700 14000-14500		mw mw	200 W	mean mean	A,0 A,0	<u> </u>		
14000-14300	- 20	IIIAA	200 N	mean	7,0			
			 					
							L	
				nore space is required, a erminals. Specify units.	ittach as Exhibit No.).		
(C) Insert maximu	m effec	tive radiated	power from the ante	enna (If pulsed emission	specify peak power).			
			definitions in Part	5). :y. (See Section 2.201 F	CC Pules)			
(F) Insert as appro				y. (See Section 2.201 1	CC Ruics.)			
(1) the maxi	mum s	peed of keyir	g in bauds;					
1		modulating tion of carrie						
(4) pulse du	ration a	and repetition	rate.					
	For complex emissions, describe in detail in the space provided below.							
(G) Describe now	(G) Describe how the necessary bandwidth was determined in space provided below.							
1								
							•	
Į								
1								
B								

5(a). Proposed location of transmitter and transmitting antenna (Check only of	one box)						
X☐ FIXED/BASE ☐ MOBILE	☐ BASE & MOBILE						
(b) If permanently located at a fixed location, give below	(d) If mobile, describe the exact	area of operation					
State County City or Town							
CA Los Angeles Malibu Number and street (or other indication of location)	}						
3311 Sweetwater Mesa Road							
(c) Geographical coordinates exact to the nearest second	(e) Geographical coordinates of t	the approximate center of proposed					
340 02' 35" 1180 40' 30"	area of operation (mobile app						
North Latitude West Longitude	North Latitude	West Longitude					
34 02 35 118 40 30							
6. Is a directional antenna (other than radar) used?	X Yes	No					
If "YES", give the following information:							
(a) Width of beam in degrees at the half-power point <u>20</u> (b) Orientation in horizontal plane <u>277</u> degrees relative to 20n (c) Orientation in vertical plane <u>3 degrees</u> from horizontal							
7. Is this authorization to be used for fulfilling the requirement of a government	• •	United States Government?					
☐ Yes	X No						
If "Yes", attach as EXHIBIT No, a narrative statement des	scribing the government project, ag	ency, and contact number.					
8. Is this authorization to be used for the exclusive purpose of developing ra	edia equipment for export to be em	played by stations under the jurisdiction					
of a foreign government?	Yes X	•					
9. Is this authorization to be used for providing communications essential to research project).	a research project? (The radio com	•					
If "Yes", attach as EXHIBIT No, a narrative statement pro (a) A description of the nature of the research project being conducted. (b) A showing that the communications facilities requested are necessary (c) A showing that existing communications facilities are inadequate.							
10. If all the answers to Items 7, 8, and 9, are "No", attach as EXHIBIT No	o, a narrative statement	describing in detail the following:					
(a) The complete program of research and experimentation proposed inclu(b) The specific objectives sought to be accomplished.(c) How the program of experimentation has a reasonable promise of con radio art, or is along line not already investigated.		•					
11. (a) Give an estimate of the length of time that will be required to complet (b) If less than 2 years, give the length of time in months that the authority		3					
12. Would a Commission grant of this application come within Section 1.130							
environmental impact?	☐ Yes XX	No					
If you answer yes, submit an Environmental Assessment required by Section	ion 1.1311.						

22. CERTIFICATION

ATTENTION: Read this certification carefully before signing this application.

THE APPLICANT CERTIFIES THAT:

- (a) Copies of the FCC Rules 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;
- (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
 - (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 applicant is willing to finance and conduct the experimental program with full knowledge and understanding of the above limitations; and
- e applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulato

B)	**	of the electromagnetic spectrum as against the regulatory power of the OSA
	Signed and dated this day of	REBRUMRY, 1989.
	Name of Applicant Hughes Aircraft Company	
	(corresp	ond with name given on page 1)
	By S. F. HULL	Stall
	(print)	(signature)
	Title ASSISTANT TREASURER	
		Check Appropriate Classification:
	WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT. U.S.	☐ Individual Applicant
	CODE, TITLE 18, SECTION 1001.	☐ Member of Applicant Partnership
		☐ Office of Applicant Corporation or Association
		☑ Authorized Employee

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 specifically 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 the Commission by the Act. Information requested by this form will be available to the public unless otherwise requested pursuant to Section 0.459 of FCC Rules and Regulations. Your response is required to obtain this authorization.

THE 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. 3507.