

RECEIVED BY

APR 17 1989

HAC 89-6

Federal Communications Commission

FCC MAIL BRANCH

Approved by OMB

3060-0065

Expires 12/31/89

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

<p>A. Applicant's Name and Post Office address (Give street, city, state, and ZIP Code. See Instruction No. 4)</p> <p>HUGHES AIRCRAFT COMPANY P.O. BOX 902 EL SEGUNDO, CA 90245</p> <p>A.Y. WILKERSON EO/E2/S104</p>	<p>DO NOT WRITE IN THIS BLOCK</p> <p>File No. <u>1145-EX-PC-89</u></p>
--	--

<p>2.(a) Application for (check only one box)</p> <p><input checked="" type="checkbox"/> New Station      <input type="checkbox"/> Modification of existing authorization</p>	<p>2.(b) For Modification indicate below</p> <p>File No.: _____ Call Sign: _____</p>
---	--

3. Application for modification indicate change in (check all that apply)

Frequency       Emission       Power       Location

Other particulars (describe below or in attached Exhibit No. \_\_\_\_\_ )

4. Particulars of Operation (See instructions below)

Frequency (State Whether kHz or MHz) (A)	POWER			EMISSION (E)	MODULATING SIGNAL (F)	NECESSARY BANDWIDTH (kHz) (G)
	(B)	(C)	(D)			
SEE EXHIBIT #1						

(A) List each frequency or frequency band separately. (If more space is required, attach as Exhibit No. \_\_\_\_\_ ).

(B) Insert maximum R.F. output power at the transmitter terminals. Specify units.

(C) Insert maximum effective radiated power from the antenna (If pulsed emission specify peak power).

(D) Insert "MEAN" or "PEAK" (See definitions in Part 5).

(E) List each type of emission separately for each frequency. (See Section 2.201 FCC Rules.)

(F) Insert as appropriate for the type of modulation:

- (1) the maximum speed of keying in bauds;
- (2) maximum audio modulating frequency;
- (3) frequency deviation of carrier;
- (4) pulse duration and repetition rate.

For complex emissions, describe in detail in the space provided below.

(G) Describe how the necessary bandwidth was determined in space provided below.



13. List below transmitting equipment to be installed (if experimental, so state):

MANUFACTURER	TYPE	NO. OF UNITS
HEWLETT PACKARD	SIGNAL GENERATOR	1
HUGHES AIRCRAFT	ANTENNA DISH	1

14. Is the equipment listed in Item 13 capable of station identification pursuant to Section 5.152?

Yes  No

15. Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building will it extend 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 \_\_\_\_\_ meters.

(b) Elevation of ground at antenna site above mean sea level is \_\_\_\_\_ 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.

(e) Submit as EXHIBIT No. \_\_\_\_\_, a vertical profile sketch of total structure including supporting building, if any, giving heights in meters above ground for all significant features. Clearly indicate existing portion, noting particulars of aviation obstruction lighting already available.

16. Applicant is (check only one box)

Individual  Association  Partnership  Corporation  
 Other (describe below)

17. Is applicant a foreign government or a representative of a foreign government?

Yes  No

18. 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?

Yes  No

If "Yes", attach as EXHIBIT No. \_\_\_\_\_, a statement giving call sign of license or permit revoked and relate circumstances.

19. Will applicant be owner and operator of station?

Yes  No

20. Give name, title, and telephone number (include area code) of person who can best handle inquiries pertaining to this application.

A.Y. WILKERSON (213) 616-8997  
 RF COORDINATOR

21. List below all exhibits in numerical sequence and the item number of form requiring the exhibit identified.

EXHIBITS AND ITEM NO. OF FORM

Exhibit Number	Item No. of Form	Exhibit Number	Item No. of Form	Exhibit Number	Item No. of Form
1	4				
2	10				

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; 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

- (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
- (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 11 day of April, 19 89.

Name of Applicant HUGHES AIRCRAFT COMPANY

S. F. Hull

(correspond with name given on page 1)

By SFHull

(print)

(signature)

Title ASSISTANT TREASURER

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT. U.S. CODE, TITLE 18, SECTION 1001.

Check Appropriate Classification:

- Individual Applicant
- 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.