

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

1. Applicant's Name and Post Office address (Street address, city, state and ZIP Code. See Instruction No. 4) The Boeing Company Frequency Management Services, M/C 3U-AJ P.O. Box 3707 Seattle, WA 98124-2207	DO NOT WRITE IN THIS BLOCK File No. <i>0045-EX-ML-1999</i>
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2(a). Application for (check only one box) ☐ New Station ☒ Modification of existing authorization	2(b). For Modification indicate below: File No: 6074-EX-ML-1998 Call Sign: WA2XIE
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3. Application for Modification: Check the box beside all particulars to be modified. Check either addition or replacement to indicate whether the change is an addition or a replacement of parameters in the current authorization.

☐ **FREQUENCY -** ☐ **EMISSION -** ☒ **POWER -** ☐ **LOCATION -**

☐ addition or ☐ replacement? ☐ addition or ☐ replacement? ☐ addition or ☒ replacement? ☐ addition or ☐ replacement?

☐ **OTHER PARTICULARS -** addition or replacement? (Describe below or in attached EXHIBIT No.)

4. Particulars of Operaiton (see instruction below)						
Frequency (state whether kHz/ MHz) (A)	POWER			EMISSION (E)	MODULATING SIGNAL (F)	NECESSARY BANDWIDTH (KHz) (G)
	(B)	(C)	(D)			
123.1583 MHz	50W			A3E		6 KHz
123.3333 MHz	50W			A3E		6KHz

- (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). Specify units.
- (D) Insert "MEAN" or "PEAK" (See definitions in Part 5).
- (E) List each type of emission separately for each frequency. (See Section 2.201 of FCC Rules.)
- (F) Insert as appropriate for the type of modulation:
- (1) the maximum speed of keying bauds;
 - (2) maximum audio modulating frequency;
 - (3) frequency deviation of the carrier;
 - (4) pulse duration and repetition rate.
- For complex emissions, describe in detail in space provided below.
- (G) Describe how the necessary bandwidth was determined in space provided below.

5(a). Proposed location of transmitter and transmitting antenna (check only one box to indicate type of operation):			
☐ FIXED BASE		☐ MOBILE	
☒ BASE AND MOBILE			
5(b). If permanently located at a FIXED location, give below:		5(c). If mobile, describe the exact area of operation 325 KM of the coordinates of each fixed location	
State	County	City or Town	
Number and street (or other indication of location) See Exhibit 1			
5(b)(1). Enter geographical coordinates exact to the nearest second (see instruction 10)		5(c)(1) Enter geographical coordinates of the approximate center of mobile operation (see instruction 10)	
North Latitude (DD-MM-SS) ° ' "	West Longitude (DD-MM-SS) ° ' "	North Latitude (DD-MM-SS) ° ' "	West Longitude (DD-MM-SS) ° ' "
5(d). Datum (see instruction 10): ☒ NAD 27 ☐ NAD 83			
6. Is a directional antenna (other than radar) used? ☐ YES ☒ NO If "YES", give the following information: (a) Width of beam in degrees at the half-power point (b) Orientation in horizontal plane (c) Orientation in a vertical plane			
7. Is this authorization to be used for fulfilling the requirement of a government contract with an agency of the United States Government? ☐ YES ☒ NO If "YES", attach as EXHIBIT No. _____, a narrative statement describing the government project, agency and contract number.			
8. Is this authorization to be used for the exclusive purpose of developing radio equipment for export to be employed by stations under the jurisdiction of a foreign government? ☐ YES ☒ NO If "YES", attach as EXHIBIT No. _____, the following information: Provide the contract number and the name of the foreign government concerned.			
9. Is this authorization to be used for providing communications essential to a research project? (The radio communication is not the objective of the research project). ☐ YES ☒ NO If "YES", attach as EXHIBIT No. _____, a narrative statement providing the following information: (a) A description of the nature of the research project being conducted. (b) A showing that the communications facilities requested are necessary for the research project involved. (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. _____, a narrative statement describing in detail the following: (a) The complete program of research and experimentation proposed including description of equipment and theory of operation. (b) The specific objective to be accomplished. (c) How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization of the radio art, or is along line not already investigated.			
11. Give an estimate of the length of time that will be required to complete the program of experimentation proposed in this application: More than 2 years (b) If less than 2 years, give the length of time in months that the authorization requested in this application will be required:			
12. Would a Commission grant of this application come within Section 1.1807 of the FCC Rules such that it may have a significant environmental impact (see instruction 11)? ☐ YES ☒ NO If "YES", attach as EXHIBIT No. _____ an Environmental Assessment as required by Section 1.1811.			
13. List below transmitting equipment to be installed (If experimental, so state):			
MANUFACTURER	MODEL NUMBER	NO. OF UNITS	
Collins	VHF-900	5	
Collins	VHF-700	5	

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 at antenna site above mean sea level 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.

See Exhibit 2

(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 in space provided 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 or 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 the station? ☒ YES ☐ NO

20. 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.

Name: Gerry Broerman Title:

Telephone: (253) 657-6420 E-mail Address: gerald.c.broerman@boeing.com

21. APPLICANT ANTI-DRUG ABUSE CERTIFICATION:

By checking "YES", the individual applicant certifies that he or she is eligible for this license. This requires that he or she is not subject to a denial of federal benefits including FCC benefits, as a result of a drug offense conviction pursuant to Section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 862. A non-individual applicant, e.g., corporation, partnership or other unincorporated association, certifies that no part of the application is subject to a denial of federal benefits pursuant to that section. For definition of a "party" for these purposes, see 47 CFR 1.2002(b).

☒ YES ☐ NO

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

EXHIBIT NUMBER	ITEM NO OF FORM	EXHIBIT NUMBER	ITEM NO OF FORM	EXHIBIT NUMBER	ITEM NO OF FORM
1	5				
2	15				