			PAGE	
	RECEIVE	R EQUIPME	NT CHARACTERISTICS	
1. NOMENCLATURE, MANUFACTURER'S MODEL NO.			2. MANUFACTURER'S NAME	
			4. RECEIVER TYPE	
			6. METHOD OF TUNING	
7. RF CHANNELING CAPABILITY			8. EMISSION DESIGNATOR(S)	
9. FREQUENCY TOLERANCE 10. IF SELECTIVITY 1ST 2ND 3RD				
ST	2ND	3RD		
			a3 dB b20 dB	
			c60 dB	
c60 dB			d. PRESELECTION TYPE	
			13. MAXIMUM POST DETECTION FREQUENCY	
b. 2ND			14. MINIMUM POST DETECTION FREQUENCY	
1ST	2ND	3RD	16. MAXIMUM BIT RATE	
			17. SENSITIVITY	
			a. SENSITIVITY	dBm
			b. CRITERIA	
18. DE-EMPHASIS (X one)			c. NOISE FIG	dB
a. YES b. NO			d. NOISE TEMP	Kelvin
19. IMAGE REJECTION			20. SPURIOUS REJECTION	
	ST	URER'S MODEL NO.	URER'S MODEL NO.	4. RECEIVER TYPE 6. METHOD OF TUNING 8. EMISSION DESIGNATOR(S) ST 2ND ST 2ND 3RD 11. RF SELECTIVITY (X and complete as applicable) CALCULATED MEASURED a3 dB b20 dB c60 dB c60 dB d. PRESELECTION TYPE 13. MAXIMUM POST DETECTION FREQUENCY 14. MINIMUM POST DETECTION FREQUENCY 14. MINIMUM POST DETECTION FREQUENCY 15T 2ND 15T 2ND 15T 2ND 15T 2ND 15T 3RD 16. MAXIMUM BIT RATE 17. SENSITIVITY a. SENSITIVITY b. NO b. CRITERIA c. NOISE FIG d. NOISE TEMP

INSTRUCTIONS FOR COMPLETING DD FORM 1494, "APPLICATION FOR EQUIPMENT FREQUENCY ALLOCATION" RECEIVER EQUIPMENT CHARACTERISTICS PAGE

ITEM 1 - Nomenclature, Manufacturer's Model No. Enter the Government assigned alphanumeric equipment designation. If above is not available, enter the manufacturer's model number, e.g., MIT 502, and complete Item 2. If above is not available, enter a short descriptive title, e.g., GPS Receiver, Director Station RX.

ITEM 2 - Manufacturer's Name. Enter the manufacturer's name if available. If a manufacturer's model number is listed in Item 1, this item must be completed.

ITEM 3 - Receiver Installation. List specific type(s) of vehicle(s), ship(s), plane(s) or building(s), etc., where the receiver(s) will be installed.

ITEM 4 - Receiver Type. Enter the generic class, e.g., Dual Conversion Superheterodyne or Homodyne.

ITEM 5 - Tuning Range. Enter the frequency range through which the receiver is capable of being tuned, e.g., 225-400 MHz. For equipment designed to operate only at a single frequency, enter this frequency. Indicate units, e.g., kHz, MHz or GHz.

ITEM 6 - Method of Tuning. Enter the method of tuning, e.g., crystal, synthesizer or cavity. If the equipment is not readily tunable in the field, indicate in Item 21, "Remarks," the complexity of tuning. Include complexity factors such as skill levels involved, major assemblies involved, time required, and location (factory or depot) where equipment is to be tuned.

ITEM 7 - RF Channeling Capability. Describe the RF channeling capability. For uniformly spaced channels, enter the center frequency of the first channel and channel spacing e.g., first channel 406 MHz, 100 kHz increments; for continuous tuning, enter the lowest frequency and the word "continuous;" for others, including cases where channel selection is under software control, enter a detailed description in Item 21, "Remarks."

ITEM 8 - Emission Designator(s). Enter the emission designator(s) including the necessary bandwidth(s) for each designator, e.g., 16K0F3E. For systems with a frequency hopping mode as well as a non-hopping mode enter the emission designators for each mode.

ITEM 9 - Frequency Tolerance. Enter the frequency tolerance, i.e., the maximum departure of a receiver from its assigned frequency after normal warm-up time has been allowed. Indicate the units in parts per million (ppm) for all emission types except single sideband which shall be indicated in Hertz (Hz).

ITEM 10 - IF Selectivity. Enter the bandwidth for each IF stage at the -3, -20 and -60 dB levels. Indicate units, e.g., kHz or MHz.

ITEM 11 - RF Selectivity. Enter the bandwidth at the -3, -20 and -60 dB levels. The RF bandwidth includes any significant attenuation contributed by filtering in the input circuit or transmission line. Values of RF bandwidths specified should be indicated as calculated or measured by marking the appropriate block. Indicate units, e.g., kHz or MHz. Enter the preselection type, e.g., tunable cavity.

ITEM 12 - IF Frequency. Enter the tuned frequency of the first, second and third IF stages. Indicate units, e.g., kHz or MHz.

ITEM 13 - Maximum Post Detection Frequency. Enter the maximum post detection frequency. This is the nominal frequency at the -3 dB point on the high frequency side of the receiver base band. Indicate units, e.g., kHz or MHz.

ITEM 14 - Minimum Post Detection Frequency. For multichannel FM systems enter the minimum post detection frequency. This is the nominal frequency at the -3 dB point on the low frequency side of the receiver base band. Indicate units, e.g., kHz or MHz.

ITEM 15 - Oscillator Tuned. Mark the appropriate block to indicate the location of the 1st, 2nd and 3rd oscillator frequencies with respect to the associated mixer input signal.

ITEM 16 - Maximum Bit Rate. Where applicable, enter the maximum bit rate (bps) that can be used. If spread spectrum is used, enter the bit rate after encoding. Describe any error detecting/correcting codes in Item 21, "Remarks."

ITEM 17 - Sensitivity.

a. Enter the sensitivity in dBm.

b. Specify criteria used, e.g., 12 dB SINAD (Signal to Interference plus Noise and Distortion).

c. If the receiver is used with terrestrial systems, enter the receiver noise figure in dB.

d. If the receiver is used with space or satellite earth stations, enter the receiver noise temperature in Kelvin.

ITEM 18 - De-emphasis. For frequency or phase modulated receivers mark the appropriate block to indicate whether de-emphasis is available.

ITEM 19 - Image Rejection. Enter the image rejection in dB. Image rejection is the ratio of the image frequency signal level required to produce a specified output, to the desired signal level required to produce the same output.

ITEM 20 - Spurious Rejection. Enter the spurious rejection in dB. Enter the single level of spurious rejection that the receiver meets or exceeds at all frequencies outside the -60 dB IF bandwidth. Spurious rejection is the ratio of a particular out-of-band frequency signal level required to produce a specified output, to the desired signal level required to produce the same output.