TABLE 1b—CHANNELS—Continued

Channel pairing				DME parameters					
				Interrogation				Reply	
					Pulse codes				
DME No.	VHF freq. MHz	MLS angle freq. MHz	MLS Ch. No.	Freq. MHz	DME/N μs	DME/P Mode		Freq. MHz	Pulse codes μs
						IA μs	FA μs		
118Z	....	5090.1	697	1142	....	21	27	1079	12
119X	117.20	....	....	1143	12	....	....	1206	12
119Y	117.25	5090.4	698	1143	36	36	42	1080	30
119Z	....	5090.7	699	1143	....	21	27	1080	15
120X	117.30	....	....	1144	12	....	....	1207	12
120Y	117.35	....	....	1144	36	....	....	1081	30
121X	117.40	....	....	1145	12	....	....	1208	12
121Y	117.45	....	....	1145	36	....	....	1082	30
122X	117.50	....	....	1146	12	....	....	1209	12
122Y	117.55	....	....	1146	36	....	....	1083	30
123X	117.60	....	....	1147	12	....	....	1210	12
123Y	117.65	....	....	1147	36	....	....	1084	30
124X	117.70	....	....	1148	12	....	....	1211	12
**124Y	117.75	....	....	1148	36	....	....	1085	30
125X	117.80	....	....	1149	12	....	....	1212	12
**125Y	117.85	....	....	1149	36	....	....	1086	30
126X	117.90	....	....	1150	12	....	....	1213	12
**126Y	117.95	....	....	1150	36	....	....	1087	30

Notes:
* These channels are reserved exclusively for national allotments.
** These channels may be used for national allotment on a secondary basis. The primary reason for reserving these channels is to provide protection for the secondary Surveillance Radar (SSR) system.
∇ 108.0 MHz is not scheduled for assignment to ILS service. The associated DME operating channel No. 17X may be assigned to the emergency service.

(b) *Polarization.* (1) The radio frequency emissions from all ground equipment must be nominally vertically polarized. Any horizontally polarized radio frequency emission component from the ground equipment must not have incorrectly coded angle information such that the limits specified in paragraphs (b) (2) and (3) of this section are exceeded.

(2) Rotation of the receiving antenna thirty degrees from the vertically polarized position must not cause the path following error to exceed the allowed error at that location.

(c) *Modulation requirements.* Each function transmitter must be capable of DPSK and continuous wave (CW) modulations of the RF carrier which have the following characteristics.

(1) DPSK. The DPSK signal must have the following characteristics:

bit rate	15.625 KHz
bit length	64 microseconds
logic "0"	no phase transition
logic "1"	phase transition
phase transition	less than 10 microseconds
phase tolerance	±10 degrees

The phase shall advance (or retard) monotonically throughout the transition region. Amplitude modulation during the phase transition period shall not be used.

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