

# Federal Aviation Agency



AC NO: AC 170-2

AIR NAVIGATION  
FACILITIES

EFFECTIVE :

10/16/63

**SUBJECT :** IMPLEMENTATION OF ILS CHANNELS 11 THROUGH 20

1. PURPOSE. This circular further advertises that ILS Channels 11 through 20 are now being used in the United States and is to encourage owners to equip their aircraft with 20-channel capability.
2. REFERENCE. Paragraph 3.1.5.1.2 of International Standards and Recommended Practices, Aeronautical Telecommunications, Annex 10, ICAO.
3. GENERAL. Instrument landing systems are now being commissioned in the United States utilizing the 20 channels allotted for this purpose. The FAA will continue to assign ILS frequency Channels 1 through 10 wherever possible. However, at many locations, mutual interference, economics, and/or efficient frequency utilization necessitates the use of Channels 11 through 20. Aircraft owners are encouraged to equip their aircraft to receive the full 20 channels listed below.

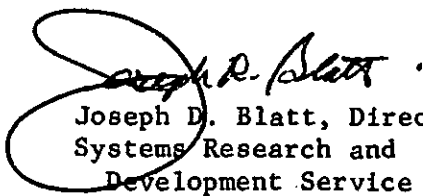
SEQUENCE OR  
CHANNEL NUMBER

LOCALIZER  
Mc/s

GLIDE PATH  
Mc/s

|    |       |       |
|----|-------|-------|
| 1  | 110.3 | 335.0 |
| 2  | 109.9 | 333.8 |
| 3  | 109.5 | 332.6 |
| 4  | 110.1 | 334.4 |
| 5  | 109.7 | 333.2 |
| 6  | 109.3 | 332.0 |
| 7  | 109.1 | 331.4 |
| 8  | 110.9 | 330.8 |
| 9  | 110.7 | 330.2 |
| 10 | 110.5 | 329.6 |

| <u>SEQUENCE OR<br/>CHANNEL NUMBER</u> | <u>LOCALIZER<br/>Mc/s</u> | <u>GLIDE PATH<br/>Mc/s</u> |
|---------------------------------------|---------------------------|----------------------------|
| 11                                    | 108.1                     | 334.7                      |
| 12                                    | 108.3                     | 334.1                      |
| 13                                    | 108.5                     | 329.9                      |
| 14                                    | 108.7                     | 330.5                      |
| 15                                    | 108.9                     | 329.3                      |
| 16                                    | 111.1                     | 331.7                      |
| 17                                    | 111.3                     | 332.3                      |
| 18                                    | 111.5                     | 332.9                      |
| 19                                    | 111.7                     | 333.5                      |
| 20                                    | 111.9                     | 331.1                      |

  
Joseph D. Blatt, Director  
Systems Research and  
Development Service