

 <p>NCAA NAMIBIA CIVIL AVIATION AUTHORITY</p>	<p><b>REPUBLIC OF NAMIBIA</b></p> <p>NAMIBIA CIVIL AVIATION AUTHORITY</p> <p><b>AERONAUTICAL INFORMATION CIRCULAR</b></p>	<p>Executive Director Namibia Civil Aviation Authority Private Bag 12003 Ausspannplatz WINDHOEK</p>
<p>Tel: +264 61 702082 Fax +264 61 702088</p> <p>e-mail: <a href="mailto:aim-aip@ncaa.com.na">aim-aip@ncaa.com.na</a></p>		<p><b>AIC</b> Series B 05/20 30 April 2020</p>

**AIR NAVIGATION SERVICES  
COMMUNICATION  
DESIGNATION OF EMISSIONS FOR NAVAIDS AND COMMUNICATIONS**

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1. The full designation of an emission is composed of information on the Bandwidth and Class of Emission.
2. The Bandwidth is expressed by three numerals and one letter. The letter occupies the position of the decimal point and represents the unit of bandwidth.  
e.g. 300 Hz = 300H  
1100 Hz = 1K10  
2,7 kHz = 2K70  
20,9 kHz = 20K9  
6 kHz = 6K00  
3 MHz = 3M00
3. The Class of Emission is symbolised by three basic characteristics:
  - 3.1. Basic Characteristics:
    - 3.1.1. First Symbol: Type of modulation of main carrier.
    - 3.1.2. Second Symbol: Nature of signal(s) modulating the main carrier.
    - 3.1.3. Third Symbol: Type of information to be transmitted.
4. For NavAids and Communications, the following designations of emission apply:
  - 4.1. Instrument Landing System (ILS)
    - 4.1.1. Localiser - 2K10A2A
    - 4.1.2. Glide path - 300HA2A
  - 4.2. VHF Omni-Directional radio Range (VOR) : 20K9A9W
  - 4.3. Distance Measuring Equipment (DME) : 3M00M1D
  - 4.4. Secondary Surveillance Radar (SSR) : 3M00M1D
  - 4.5. Communications
    - 4.5.1. VHF : 6K00A3E

4.5.2. SSB : 2K70J3E

5. Definition of Class of Emission applying to Nav aids and Communications:

5.1. First Symbol

A = Double Sideband;

H = Single Sideband, Full Carrier;

J = Single Sideband, Suppressed Carrier;

M = Modulated in Position/Phase.

5.2. Second Symbol

1 = A single channel containing quantized or digital information without the use of a modulating subcarrier;

2 = A single channel containing quantized or digital information with the use of a modulating subcarrier;

3 = A single channel containing analogue information;

9 = Composite system with one or more channels containing quantized or digital information, together with one or more channels containing analogue information.

5.3. Third Symbol

A = Telegraphy for aural reception;

B = Telegraphy for automatic reception;

D = Data Transmission, Telemetry, Telecommand;

E = Telephony (including sound broadcasting);

W = Combination of above.