

## Necessary Bandwidth Description

**Frequency range:** 914.7 MHz

**Radio Specs:** Digital modulation (two-level MSK)

**Emission Designator:** 1M10F1D

**Occupied Bandwidth (99% of total power radiated):** 1.048 MHz

± 25 kHz will be necessary to compensate for Doppler shifting, bringing the total necessary bandwidth to 1.098 MHz

**Necessary Bandwidth:** 1.098 MHz (Occupied BW + Doppler shift BW)

This is the minimum value of the Occupied BW sufficient to ensure the transmission of information at the rate and with the quality required for the system employed under our specified conditions

**Necessary Bandwidth demonstration:** See chart below

