



## Portable Radio Antenna Selection Recommendation

### Notice

The purpose of this Standard Operating Guideline is to promote the use of approved half-wave antennas for portable radios and to advise Monroe County Control Center users about the lower performance of quarter-wave antennas.

It is highly recommended to use only radio manufacturer approved half-wave antennas on portable radios operating on the Monroe County Control Center radio network. The use of any portable radio antenna other than a manufacturer-approved half-wave antenna is discouraged by the Monroe County Control Center.

There may be unique circumstances in which antenna alternatives may merit consideration. The quarter-wave antenna is commonly known as a “stubby” antenna. The coverage characteristics of the quarter-wave antenna are such that the radio will not perform in the transmission or reception mode as well as a device with a half-wave antenna. The trade-off when using the “stubby” is an increase in comfort level and covertness of the smaller size antenna verses a lower technical performance than the half-wave antenna.

It is the responsibility of the end user on the Monroe County Control Center radio network to select the appropriate portable radio antenna that best supports the mission of the user, and recognize the inherent reduction of performance when the quarter-wave antenna is used in comparison to the half-wave. Monroe County Control Center will not add infrastructure to its system to provide greater coverage to offset signal loss attributed to portable radios equipped with quarter-wave antennas.

### Questions, Comments or Concerns about these requirements:

Email: [P25radio@monroeco911.com](mailto:P25radio@monroeco911.com)

Or Call

**570-992-4500**

