**radio antenna specifications**

*(quantity 2 antennas)*

**transmit antenna**
- 44’ high
- Typically requires guy wire supports

**receive antenna**
- 20’ high
- One 8’ vertical element located at 12’
- Four 8’ radial elements located at 12’
- Antenna mast support via guy wires

**weather-proof enclosure**
- Typical footprint: 36” h x 24” w x 38” d
- Requires ~1000 watts AC
- Network connection desirable

**ideal installation conditions**
- Close to ocean
  - less than 800 feet from water’s edge
- Wide field of view (180° up to 360°)
- Area relatively clear of obstructions
  - power lines, antennas, large metal objects
- AC power available

**signal specifications**
- Output Transmit Power: 80W peak, 40W average
- Operating Frequency: 4.3-5.4 MHz
- Modulation Format
  - Pulsed Swept Frequency: CW
- Pulse Repetition Frequency: 256-512 Hz
- Duty Factor: 50%
- Sweep Width: 12-25 kHz (typical)
- Total Signal Bandwidth: 27-40 kHz (at -20dB level)
- Polarization: Vertical
- Coverage Angle: 360°