

Antenna Information

The station location of West Palm Beach, FL proposes the use of an existing test tower located at NL 26-46-38 by WL 80-03-09 with the following antennas:

Antenna 1:

Manufacturer: Antenna Products Corporation
Model: AS-3226
Manufacturer Specification: 30 – 88 MHz
Polarization: Vertical
Gain: 2 dBi
Beamwidth: 360° Azimuth x 70° Elevation (Centered at Horizon)
(Connected to transmitter 1: Harris Model #AN/PRC-117F)

Antenna 2:

Manufacturer: Andrew Communication Systems
Model: UMW-09015-0DH
Manufacturer Specification: 1710 – 1880 MHz
Polarization: Vertical
Gain: 16.5 dBi
Beamwidth: 90° Azimuth x 6° Elevation
(Connected to transmitter 2: BAE model # AN/VRC-99B)

Antenna 3:

Manufacturer: Phazar Antenna Corporation
Model: BRSNF90-2000-16-T0-N
Manufacturer Specification: 2000-2700 MHz
Polarization: Vertical
Gain: 16.7 dBi
Beamwidth: 90° Azimuth x 6.3° Elevation
(Connected to transmitter 3: Reliable Systems Services model# RT-1944/U)

The following replacement antennas are proposed for performance comparison:

Manufacturer: Antenna Products Corporation
Model: RMV-101 (P/N 7592367)
Manufacturer Specification 1: 1700 – 2000 MHz
Manufacturer Specification 2: 30 – 40 MHz
Polarization: Vertical
Gain: 5.5 dBi (1700 – 2000 MHz)
2 dBi (30 – 40 MHz)
Specification 1 Beamwidth: 360° Azimuth x 16° Elevation
Specification 2 Beamwidth: 360° Azimuth x 40° Elevation
(Connected to Transmitter: BAE model # AN/VRC-99B, or Harris Model # AN/PRC-117F, or Reliable Systems Services model# RT-1944/U)

Manufacturer: DAPA Technology Inc.
Model: 44010, Panel Antenna
Manufacturer Specification: 1710 – 1990 MHz
Polarization: Vertical
Gain: 14.6 dBi
Beamwidth: 60° Azimuth x 19° Elevation
(Connected to transmitter: BAE model # AN/VRC-99B)