

NSC FLRFIM Project Outdoor Test

Information: Outdoor over-the-air testing of BECDL, SRW, and VRC-99 waveforms in the 1.6 to 2.1 GHz frequency range at Joint Expeditionary Base Little Creek Fort Story near Norfolk, VA. Test operations described in this STA request will be at Fort Story.

Anticipated 2020 Test Dates: Apr 27 - May 7, Jul 20-31, Aug 24 - Sep 4 (extend through 30 Sep 2020)

Is directional antenna, other than radar used: **Yes, 16-element (5 dBi ea.) phased array for communications.**

If so, width of beam in degrees at half-power point: **~38°(E-plane) & ~38°(H-plane) at 2.0 GHz**

Orientation in horizontal plane: **220° (azimuth; measured eastward from 0° North)**

Orientation in vertical plane: **0° elevation (horizontal)**

Stationary or Mobile antenna: **Stationary**

Lower Band: Lower Frequency: **1695 MHz** Upper Frequency: **1710 MHz**

Upper Band: Lower Frequency: **2155 MHz** Upper Frequency: **2180 MHz**

Lower Frequency Upper Frequency Frequency Units

1695 1710 MHz

2155 2180 MHz

Power Power Units ERP ERP Units

16 W 51 W

Mean/Peak Frequency Tolerance

Mean 10 kHz

Emissions Designator (<https://fccid.io/Emissions-Designator/>): **25MW9X**

Necessary Bandwidth: **25M – 25 MHz**

Type of Modulation of Main Carrier: **W – “Cases not covered above, in which an emission...”**

Nature of Modulating Signal: **9 – “Composite system with one or more channels...”**

Type of Information: **X – “Cases not otherwise covered”**

North Latitude (DD-MM-SS): **36-55-25**

West Longitude (DDD-MM-SS): **76-00-25**

Radius of Operation (Km): **3**

Datum: **WGS84, not NAD83**

Elevated antenna: **No**

Test Location

Fort Story test site and nominal 400 m separation shown.



Test Diagram

