

RF Emissions Analysis:

The applicant proposes to use an authorized and registered tower #1011469. No changes are proposed to the height of this tower. There are several other broadcast antennas on the shared tower.

WVQS-LD will transmit using a radiated power of 15 kW from an antenna height above ground of 51 meters. The applicant proposes to use a Scala 2 x 2 CL-1469B stacked array. This UHF antenna has a high gain of 10.5 dB. Using the OET 65 formulas, and a standard vertical elevation field toward the nadir for this type antenna of 0.1, the facility produces 0.557 μW per cm^2 at head height, which is 0.278 percent of the maximum for an uncontrolled area. Since this value is well less than one percent, no further analysis was deemed necessary.

The applicant will post all appropriate warning signs at the site and will lower the power or terminate transmission as needed to protect workers on the tower.