

**NORTHEASTERN PENNSYLVANIA TV ASSOCIATION
100 WVIA Way
Pittston, PA 18640-6197**

RF SAFETY EXHIBIT A FOR FCC FORM 312

In accordance with Question 28 of FCC Form 312 Main form, NEPTV submits this radiofrequency statement with regard to its application for a temporary fixed station Ku band facility.

The proposed Temporary Fixed Service truck employs an 80-watt flange power transmitter operating between 14.0 and 14.5 GHz into an AVL Technologies Model 1200 DSNG offset prime focus 1.2 meter dish located on the vehicle roof at 2.4 meters above ground. The nominal antenna gain is 43.1 dBi. The EIRP is 62.1 dBW in the main beam. The minimum elevation angle for the antenna with power applied is +11 degrees. At this low elevation angle, the maximum EIRP at any azimuth on the horizon will not exceed 62.1 dBW – 43.1 dB or 19 dBW (80 watts). The actual horizon EIRP with the elevation angle above 11 degrees will be even lower.

FCC OET Bulletin OET 65, Table 1 specifies MPE levels of 5 mW/cm² occupational and 1 mW/cm² uncontrolled at 14 GHz. Using the formulas of OET 65, the maximum distance to the 1 mW/cm² level from the antenna surface off axis is 1.6 meters. Since the antenna is mounted on the top of an 8 foot (2.4 meter) vehicle and centered on the roof, the closest line of sight distance to the head of a 6 foot person to the dish would be approximately 2 meters. At 2 meters from the antenna the maximum calculated RF power density would be under 0.7 mW/cm².

Therefore the proposed Temporary Fixed Service earth station meets all requirements of FCC OET 65, Edition 97-01 for both occupational (trained individuals) and uncontrolled/general population levels.

Respectfully submitted,



Larry H. Will, P.E.
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