Bullet Proof Electronics, Inc.
Engineering Services

KVBI UHF 42
Digital Flash Cut Application

Environmental Impact

The proposed modification has been analyzed with respect to OET Bulletin 65 Edition 97-01 (OET65) entitled *Evaluating Compliance With FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields*.

The instant application proposes to reuse the currently-licensed Scala 4DR-16S antenna without any change in location, height, azimuth, or any other antenna parameter.

Per OET65 Appendix A, Table 1 (A) and (B), for digital operation on channel 42 (641MHz center frequency), the maximum permissible power density is 2.136 mW/cm2 for occupational exposure, and 427.3 mW/cm2 for uncontrolled exposure. A radiofrequency radiation analysis indicates compliance with these exposure limits, with a worst-case exposure of less than 0.009% of the uncontrolled limit.

Based on the analysis above, it is concluded that the proposed operation is in full compliance with non-ionizing radiation exposure limits. The proposed facility will have no other significant environmental impact.

The tower is existing. The structure is below the height required for antenna structure registration or marking. The proposed location is not in a sensitive environmental area. The proposed facility does not require further environmental analysis under 47 CFR §1.1307 and is therefore excluded from environmental processing under 47 CFR §1.1306.

Environmental Impact (Continued)

The tower is located in a remote restricted access area and public access is prohibited. Signage is posted at the base of the tower warning that radiofrequency radiation levels above the prescribed limits may be realized at some locations on the tower. The base of the tower is marked with signage warning potential climbers that maximum exposure levels are exceeded at some elevations on the tower in proximity to the transmitting antennas. The proposed facility does not require further environmental analysis under 47 CFR §1.1307 and is therefore excluded from environmental processing under 47 CFR §1.1306.