

DTV Station KBLR • Channel D40 • Las Vegas, Nevada

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained by Telemundo Las Vegas License, LLC, licensee of TV Stations KBLR and KBLR-DT, Channels N39 and D40, Las Vegas, Nevada, to prepare an engineering statement concerning environmental conditions in support of its application for modification of construction permit.

Calculated Power Density at Ground Level

An Environmental Assessment is not required, as grant of this application would not be considered a major environmental action. The transmitting facilities are calculated to comply at ground level with FCC guidelines limiting human exposure to radio frequency energy.

The proposed transmitting antenna is a Dielectric Type TLP-16E SP (C) slotted cylinder having a narrow cardioid azimuth pattern oriented toward 330°T. The radiation center height of the antenna is 20.3 meters (66.5 feet) above ground. The maximum power density levels at 2.0 meters (6 feet, 7 inches) above ground, calculated in accordance with OET Bulletin No. 65 (August 1997) for the proposed KBLR-DT operation is 11.3% of the 2.10 mW/cm² occupational exposure guideline applying at UHF TV Channel 40. The location of that calculated maximum is 7.1 meters northwest of the base of the tower on which the KBLR-DT antenna is to be mounted. Accounting for the terrain of the site, the area where KBLR-DT is calculated to contribute 5% or more of its limit (*i.e.*, the area within which KBLR-DT is calculated to be a “significant contributor” to the RF environment) extends 44 meters to the northwest of the tower.

The proposed KBLR-DT operation is at Tower 9 of the Black Mountain Telecommunications Site, near Henderson, Nevada. The Black Mountain Telecommunications Site may be considered a “controlled environment” under FCC guidelines, since access to the site is controlled by a fence and by locked gates, and persons having authorized access to the site have knowledge of and control over their exposure to RF energy. Measurements of the power density at ground level were taken on April 12, 2005, by Richard Tell Associates, and documented in the April 24, 2005, report, “Ground Level RF Survey Results at the Black Mountain Transmitter Site.” Mr. Tell reported the power density at ground level in the area where KBLR-DT is calculated to be a significant contributor to be “well below” the public limit, that is, less than 20% of the occupational limit. Therefore, the maximum power density due to the combined operation of KBLR-DT and other facilities at the Black Mountain site is less than 31.3% of the occupational limit.



Calculated Power Density on Tower 9

Calculations in accordance with OET Bulletin No. 65 on Tower 9 indicate that KBLR-DT should be shut down when it is necessary to climb above the 50-foot level. It is recommended that workers having access to Tower 9 (on which the KBLR-DT antenna is to be mounted) and all other towers at the site, use personal RF exposure monitors when climbing, to ensure that they are not exposed in excess of FCC guidelines.

Impacts on other towers at the site are being evaluated, and necessary modifications to the recommended power levels for on-tower access* will be provided to the site manager shortly.

Conclusion

The proposed operation of KBLR-DT is calculated to comply at ground level with FCC guidelines limiting human exposure to RF energy in controlled environments. Provided KBLR-DT is shut down when work is required above the 50-foot level on Tower 9, the operation of KBLR-DT is also calculated to comply with FCC guidelines for access to that tower.



/s/ **Robert D. Weller**

Robert D. Weller, P.E.

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* Hammett & Edison, Inc., "Black Mountain Telecommunications Site, Las Vegas, Nevada – Study of Radio Frequency Exposure Conditions," November 23, 2005.