

KMLF-LD MINOR CHANGE APPLICATION

FACILITY DESCRIPTION AND

ENVIRONMENTAL DISCUSSION

JANUARY 22, 2016

The proposed antenna system consists of an Alive Telecommunications ("ATC") model ATC-BB100-U, broadband, cylindrical, horizontally polarized, UHF TV antenna. An existing 20' tower on the building is existing. This tower or another tower of the same height which does not extend the height of the structure will support the antenna. The antenna is top mounted and 16.3 feet in height. Since the cylindrical antenna increases the height of the existing structure by less than 20' the 20' rule applies and no FAA filing is required. Appropriate RF safety warning signs will be posted on the access doors to the roof and on the roof.

The maximum relative field in the elevation pattern between depression angles of 20 and 90 degrees is 0.263 at 68 degrees. The antenna radiation center is 45.2 meters above ground. Utilizing formula 10 OF OET Bulletin No. 65, Edition 97-01, a value F of 0.263 has been used to calculate the power density 2 meters above ground. The maximum power density is 18.35 uw/cm squared calculated for an ERP of 15,000 watts H. polarization. This value is 5.35% of the Public Exposure MPE OF 343.3 uw/cm squared per section 1.1310 for CH 21 operation. Based on this analysis it is believed that the proposed facility is in compliance with OET-65 Guidelines.

The applicant will reduce power or cease transmission as required to meet FCC OET-65 Guidelines.

The proposed structure is existing.