

APPLICATION FOR STATION LICENSE
AND PROGRAM TEST AUTHORITY
CUMULUS LICENSING LLC
KDVB (FM) RADIO STATION
CH 245A - 96.9 MHZ - 0.25 kW
EFFINGHAM, KANSAS
November 2016

EXHIBIT B

This study is made to determine whether this application is in compliance with 47 C.F.R. §1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997 ("Bulletin"), regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby stations and utilizes the appropriate formulas contained in the Bulletin. The KDVB antenna system is mounted with a center of radiation 8.0 meters (26 feet) above ground and 4.9 meters (16 feet) above the roof top and operates with an effective radiated power of 0.25 kilowatt in the horizontal and vertical planes (circularly polarized). KDVB is using a Systems With Reliability, Model FMEC-1, one bay antenna.

The outstanding construction permit (BMPH-20160503ACD) for KDVB holds a condition which requires field measurements to establish the lack of human exposure to radio frequency radiation below the FCC's guidelines. On November 10, 2016, Dennis Eversoll, Cumulus Licensing LLC, operating under equipment test and utilizing a Narda 8718B Meter and B8742D Probe, Serial #08003, Calibrated April 2013, conducted tests in the vicinity of the antenna to demonstrate the lack of radio frequency radiation was below the FCC's guidelines. A tabulation of those measurements are included as Exhibit B1. A sketch showing the location of the measurements is included as Exhibit B2.

Since this level for uncontrolled environments is well below the 100% limit defined by the Commission, the KDVB facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, Cumulus has posted warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards the site. In addition, Cumulus will reduce the power of the facility, or cease operation, in cooperation and coordination with other tower users, as necessary, to protect persons having access to the site, tower or antenna from radiofrequency radiation in excess of the FCC's guidelines.

MEASUREMENTS TO DETERMINE HUMAN EXPOSURE TO RADIO FREQUENCY RADIATION

POINT #	DISTANCE FROM ANTENNA Ft	meters	Location Description	Contribution
1	0.00	0.00	Directly Below Antenna on Roof	10.80%
2	25.00	7.62	SW Corner of Building Street Level	1.85%
3	15.00	4.57	SE Corner of Building Street Level	8.30%
4	27.00	8.23	SW Corner of Bank Street Level	1.35%
5	15.00	4.57	Front of Building Street Level	3.48%
6	40.00	12.19	NW Corner of Building Street Level	1.62%
7	10.00	3.05	NE Corner of Building Street Level	2.25%
8	60.00	18.29	Across Main Street - Street Level	1.18%

Several readings taken inside building supporting the antenna

< 1%

EXHIBIT B1
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EXHIBIT B2
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KDVB RF EXPOSURE READINGS

