

**Date: 9/9/2019**

**RF Field Strength Measurement KMVN Transmitter Site**

On August 28, 2019 I took RF field strength measurement readings at the KMVN transmitter site located at 12697 Golden Eagle Dr., Eagle River, AK 99577. The transmitter site is accessible by a roughly ¼ mile driveway that is secured with a locked gate. There is a locked chain link fence that surrounds the transmitter building and tower. This fence is marked with appropriate RF warning signs. Only trained employees have access to the area within this locked chain link fence.

I took these measurements using a Narda NMB-550 field meter (serial number G-0277, Calibration ID 1660307G Date 4/18/18) along with a Narda probe EF-1891 (serial number G-0098, Calibration ID 1660746A Date 06/13/18). When these measurements were taken the KMVN transmitter was operating at 15kW with an ERP of 31kW.

I began by measuring the area within the transmitter building and surrounding secured fenced in area. I measured in a grid pattern walked the perimeter of the fence and paid close attention to areas around the base of the tower which were where the highest field strength readings were. The average readings were between 20 and 35 percent of occupational/controlled exposure limits. The highest reading was at the base of the tower with a reading of 76.8 percent. No areas inside of the fenced in tower site exceeded this .768 mW/cm<sup>2</sup> reading.

I then measured outside the fence along the perimeter and all accessible areas along the driveway and path towards the transmitter site. During these measurements I set the Narda meter to reference the general population/uncontrolled exposure limits. The average readings were between 10 and 20 percent of general population exposure limits. The highest reading was at the fence gate with a reading of 51.6 percent. No areas outside the fence exceeded this reading of .103 mW/cm<sup>2</sup>.

This facility is in compliance with the FCC Rules regarding human exposure to RF energy. KMVN will cooperate in the reduction of power or cessation of operations as necessary to protect persons having access to the site, tower, or antenna from RF radiation in excess of FCC guidelines.



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