

Humpy Peak RFR Study

This Engineering Statement was prepared on behalf of Humpy Peak Communications Site located in Summit County, Utah. The facility constructed is an established communication Site. The area coordinates are 40-52-16 N 110-59-43 With an AMSL of 3330 meters as this statement provides the radio frequency electromagnetic exposure measurements for the purpose of compliance for radio station KUDD 107.9 FM and was conducted in accordance of the FCC Guidelines (OET Bulletin No. 65 edition 97-01 August 1997) Radiofrequency Electromagnetic Exposure.

A radiofrequency electromagnetic field survey was completed in the vicinity of the single tower site know as Humpy Peak, as detailed in this document, it ensures radiofrequency exposures do not exceed the FCC guidelines for human exposure to RF fields.

On the mid-morning of February 21st, 2014 using a Narda SRM-3000 narrow band radiofrequency measurement test set with a 300 KHz–3 GHz three axis probe designed for E-field measurements, the meter was set to “Safety Evaluation mode” this function allows for a summary analysis of the site and is divided into nine frequency ranges that are labeled and measured. With the meter set to a “MAX AVERAGE” this allowed for a “worse case scenario”. 30 measurements were conducted at various locations from 5 to 150 feet. The following is the RF percentage table of the FCC General Population percentage.

- FM Radio 20.23%
- TV channels 7-13 .153%
- TV channels 14-69 0.117%
- SMR tx 0.018%
- AMPS tx 0.008%
- ESMR 0.008%
- GSM Tx 0.079%
- PCS Tx 0.018%
- Others 1.019%
- Total 21.65%**

After completion of the “Safety Evaluation” the meter was then set to analyzer mode and scanned for the highest RF emitter. Measurements commenced around the tower to look for any “Hot Spots” that may cause concern. All measurements were made using the percentage table of the FCC General Population percentage (OET Bulletin No. 65 edition 97-01 August 1997) a table of the measurements with the high RF signals is noted: NONE

The radiofrequency environment at Humpy Peak is considered an occupational/controlled environment. This is a remote mountain top site at 3330 meters above mean sea level. The area is off limits to the general public and is protected by a lower gate at the road entry. The locked gates prevent general public from accessing the site. Additionally, the access road is not serviceable during 9 months of the year due to deep snow base. A snow vehicle or helicopter is required to access the site during that time of the year. No general public resides within 40 miles

of the site. Warning signs are posted in accordance to FCC rules and regulations. The measurements made do not exceed Limits for Maximum permissible exposure (MPE) Humpy Peak can be considered a controlled radiofrequency environment.

I Scot Mathews preformed the radiofrequency field survey. A Narda SRM-3000 narrow band radiofrequency measurement test set with a 300 KHz–3 GHz three axis probe designed for E-field measurements was employed. Manufacturer calibration is in accordance to the device and operates correctly. I also state that the Guidelines for human exposure to RF field measurements of the FCC Guidelines (OET Bulletin No. 65 edition 97-01 August 1997) taken with Narda Model SRM-3000 with current calibration on this 21st day of February 2014 are true and accurate to the best of my knowledge.

Respectfully Submitted,

A handwritten signature in black ink that reads "Scot W. Mathews". The signature is written in a cursive, flowing style.

Scot Mathews
Contract Engineer