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Montana State University-Billings
KPRQ-FM/SHERIDAN, WY
RF RADIATION COMPLIANCE

OET BULLETIN 65 EDITION 97-01

March 22, 2006

Montana State University-Billings
KPRQ-FM/SHERIDAN, WY
RF Radiation Compliance

This report is to show compliance with FCC established guidelines for exposure to RF electromagnetic fields as prescribed in OET Bulletin 65 Edition 97-01. The station facilities in the immediate and surrounding areas of KPRQ of any consequence are submitted, that may have an effect, are included below as well as the measurement methods, as follows:

KPRQ 88.1, Facility ID #89885, CP Sheridan, WY
K285CE, 104.9
K209XK, KTVQ-Billings TV Translator
KSGW-TV Channel 12
KYTI-FM
KZWY-FM

SURVEY METER

The measurements were performed on Wednesday, March 22, 2006 using a Narda Model #8718B RFR Field Density Survey Meter and a Narda Model #8764D probe. Serial Numbers are #6053 & #6010, respectively. The meter and probe were designed to measure electromagnetic fields with respect to human exposure from 100 kHz to 300 GHz. The instrument was last calibrated by Narda on 5/27/05; documentation of same is available upon request.

All measurements were conducted personally by Randall Rocks, Technical Director of the licensee, Montana State University-Billings, and are true and accurate to the best of my knowledge.

Randall Rocks

General Population/Uncontrolled Exposure

A Narda Survey Meter Model 8718B with a 8761D Probe was used at the immediate site as well as consequent surrounding areas of the site. The probe is calibrated in percent of limit for Uncontrolled Exposure ($200 \mu\text{W}/\text{cm}^2=100\%$) from 300 kHz to 3.0 GHz. Max-Hold was implemented on the instrument while walking around the area with the probe being alternately moved from ground level to a height of 2-meters. The highest level was measured at $.7218 \mu\text{W}/\text{cm}^2$ within the perimeter of 18-meters of the building and tower.

Occupational/Controlled Exposure

The Occupational/Controlled measurements were conducted using the same Narda Survey meter as previously indicated. The maximum level was recorded 8-inches from the tower guy-lines: $.3285 \mu\text{W}/\text{cm}^2$. Maximum level recorded inside the transmitter building was $.0258 \mu\text{W}/\text{cm}^2$.

Spatial Averaging

The Narda Spatial Averaging method was also utilized during all the above measurements and methods. Maximum level was recorded at $.2384 \mu\text{W}/\text{cm}^2$.

CONCLUSION

Montana State University-Billings submits that, based upon the above measurements, RFR Density Compliance is easily shown for KPRQ in its endeavor to satisfy the Commission's requirements for Program Test Authority.

Respectfully Submitted-Randall Rocks, Technical Director-MSU-Billings