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NIER MEASUREMENTS

AT

WEST TIGER MTN MASTER ANTENNA SITE

FOR KISW-FM

JANUARY 29, 2000

INTRODUCTION

On January 29, 2000, between the hours of 9:00AM and 12Noon, non-ionizing electromagnetic RF field measurements were made on KISW-FM at the Tiger Mountain Master Antenna Site. All licensed stations, and KISW, were operating when the measurements were made. The weather was sunny with two feet of snow on the ground at the antenna site.

EQUIPMENT AND PROCEDURES

The measurements were made with NARDA RF Radiation Survey Meter, Model 8718B (sn 0001). The RF sensor was an 8742 (sn 01001) isotropic electric field probe (cal. 5/99) that provides an output proportional to IEEE C95.1-1991 / ANSI C95.1-1992 (Controlled Environment) from 300 kHz to 2.7 GHz. The measured fields are indicated by the meter as a percentage, over the frequency range, of the power density limits of the Controlled Environment Maximum Permissible Exposure (MPE) allowed by C95.1. The probe calibration factor for the center of the FM broadcast band (0.99 @100 MHz) was automatically applied by the meter to all readings. Since the probe factor was automatically added to the readings by the meter the overall accuracy of the measurements was +/- 0.75 dB.

The measurements were made according to the provisions of ***ANSI/IEEE Std C95.3-1991, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields--RF and Microwave***. Measured areas were scanned with the probe and the maximum readings were stored by the meter. In those areas where the highest measured fields were found a spatial average was performed as required by ***IEEE/ANSI C95.1-1992, "Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz"***(C95.1-1992).

MEASURED FIELDS AT THE WEST TIGER MOUNTAIN MASTER ANTENNA SITE

The fields were measured by walking around accessible areas of the site and using the meter to record the maximum field and the average field over the area measured. A spatial average was

performed to determine compliance with the appropriate MPE at those locations where the highest fields were found.

The highest fields at the site are located in a small area, called Picnic Rock, due south of the tower on the site access road. This is the only generally accessible area at the site where the spatially averaged measured fields were a large percentage of the Controlled Environment MPE. The spatially averaged measurement was repeated ten times in the vicinity of this location because the measured fields were so close to 100% of the Controlled Environment MPE. The spatially averaged measured fields near Picnic Rock ranged from 67% to 92% of the Controlled Environment MPE.

The area on the road near "picnic rock" was previously marked and signed as a high RF exposure location. The access to the site is marked with warning signs and the general public is prohibited access to the site by a gate.

With one exception, peak measured fields at other locations on the site were 17.5% or less of the Controlled Environment MPE. An RF hot spot at the north gate to the tower enclosure measured 17% of the Controlled MPE on a spatially averaged basis.

According to the FCC, ANSI, and the NCRP, MPEs the measured fields from the stations operating at the Tiger Mountain Master Antenna Site with authorized power, including KISW-FM, do not exceed the FCC Controlled Environment MPE on the site. The FCC Uncontrolled Environment MPE is not exceeded anywhere on the site except in the vicinity of Picnic Rock. Appropriate signs and a gate have been installed on the access road to the site.

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