

**ELECTROMAGNETIC FIELD MEASUREMENTS
AT THE WEST MOUNTAIN TRANSMITTER SITE
NEAR SAINT GEORGE, UTAH**

COCHISE BROADCASTING LLC

NOVEMBER 2012

Introduction

On November 4, 2012 radiofrequency power density measurements were made around the KCDC FM transmitting facility at the West Mountain transmitter site near Saint George, Utah. The measurements were made between the hours of 3:00 PM and 4:00 PM. There are several towers at this site, spread over about 100 meters along the ridgeline and to the best of our knowledge there are no high-power (above 1 kW authorized power) FM and TV transmitters at or near the site apart from KCDC. KCDC uses a two-level Scala Yagi antenna system directed away from the site building and towers, with an immediate cliff just beyond the main lobe of the antenna.

Site Access and Location

The West Mountain transmitter site is located on a remote mountain ridgeline, about 7 driving miles from the nearest paved road (West Old Highway 91), and reached by an unimproved dirt road which is very steep, very rocky in places and accessible only by snow machine in winter. In normal conditions, access requires a 4 wheel drive high-clearance vehicle. There are no locked gates or fences restricting access to either the ridgeline or any of the individual tower sites. No pre-existing RFR warning signs seen were in the vicinity of the of the tower which supports the KCDC antenna.

Test Equipment Used

A NARDA Model XT Personal Monitor was used to make the measurements. The XT provides an output indication of the percentage of the **CFR 47 §1.1310 Radiofrequency Radiation Exposure Limits** (Occupational/Controlled Environments) maximum permissible exposure (MPE) over a frequency range from 100 kHz to 100 GHz.

Item	Make/Model	Serial Number	Calibration Date
RF Personal Monitor	Narda XT	4101	July 2012

Measured Fields

Only one location was found to exceed the General Population/Uncontrolled Environment MPE.

Location	Percent of FCC Uncontrolled Environment MPE ¹
Approx 30 feet east of KCDC antenna (main lobe)	Over 100%

These measurements show that the site is in compliance with the FCC General Population/Uncontrolled MPE, with the exception of a small area between the Station's antenna (main lobe at 84 degrees true) and a sheer cliff only feet away. This one location was marked with an appropriate RF warning sign. Anyone standing at this location would be in great danger of falling down the cliff, so it is highly unlikely that persons will enter this area.

All other areas along the ridgeline are below the FCC General Population/Uncontrolled Environment MPE.

This report regarding radiofrequency field measurements around the KCDC transmitting site at West Mountain has been prepared by myself. All representations contained herein are true to the best of my knowledge.

November 4, 2012

Ted Tucker, Sr.