

Tri-State Radio, Inc.
KYLZ, Parowan, Utah
Non-ionizing Radio Frequency Radiation Intensity Measurements
July 2-3, 2011

Instrument Used:

NARDA Model N34-550
P/N 2401/01 S/N B-1132 Year 2010

"E" field probe used for measurements.

The area about the tower between zero and two meters above ground was explored with the Radiation Intensity meter. The meter measures the sum of all radio frequency radiation. The "E" field probe was used because its calibration included the FM broadcast band. RFR levels were found to be very low on the grounds about the tower and inside the buildings. Significant levels were found on the roof. Access to the roof is restricted, and the building owner instructs anyone having authorized access to the roof to coordinate with the radio station to arrange to have the RF power reduced or shut off during access. Warning signs have been ordered and will be installed on the tower and roof accesses before Program Tests begin which read in part: ". . .Warning, Radio Frequency Levels beyond this point exceed the Limits for Human Exposure . . ."

Examples of readings taken are given below:

Measurements taken from ground level:

dist.	1.1714	Occupational	Casual
		compliance?	compliance?
Directly under radiators at 8' [2.4 m.] above ground	0.0157 mw/cm2	YES	YES
Front corner SE of building at 8' [2.4 m.] above ground	0.0060 mw/cm2	YES	YES
South of tower at adjacent building 90 degrees from tower 8' 2.4m.] above ground	0.0048 mw/cm2	YES	YES
Rear corner SW of building at 8' [2.4 m.] above ground	0.0041 mw/cm2	YES	YES
Inside building 15' N of tower at 8' [2.4] above ground	0.0036 mw/cm2	YES	YES

Measurements taken on the roof:

2 meters above roof at tower	1.6857 mw/cm2	NO	NO
0.6 meters from tower, max 0-2 meters above roof	1.1601 mw/cm2	NO	NO
1.5 meters from tower, max 0-2 meters above roof	0.2494 mw/cm2	YES	NO
3 meters from tower, max 0-2 meters above roof	0.1070 mw/cm2	YES	YES
6.1 meters from tower, max 0-2 meters above roof	0.0568 mw/cm2	YES	YES

The above readings were taken by Gary Smith, an experienced Broadcast Engineering Technician, under the supervision of Dennis Silver, PE.