

RF Radiation Measurements for WETD, Alfred, NY

I, James L Travis, of 306 E William St. Bath, NY 14810. FCC General Radiotelephone operator license number PG20-6770, performed an RF Radiation Measurement at WETD transmitting facility located at 42-15-37 and 77-47-51, Alfred, NY. Transmitter operation was verified to be at full licensed power. The measurements were taken on May 27th, 2009.

The purpose of these measurements was to insure that the area around the transmitting antenna is below the level of RF Radiation for an uncontrolled environment. Since utilizing the formula for RF Radiation based on the power/height aspect could not verify this safety issue, other means had to be employed.

A Narda Safety Test Solutions meter, model 8718 Radio Frequency Radiation Survey Meter, serial number 6036, along with Probe A8742D, serial number 02221, were utilized. The meter is a portable battery operated instrument for measuring and detecting potentially hazardous electromagnetic radiation from 3khz to 40ghz. The meter display is calibrated to show % of Standard with the shaped probe, model A8742D, as supplied with the model 8718 meter. It should be noted that the percent of standard is referenced to mW/c^2m .

Care was taken to ensure accurate measurements. As per the instructions, the meter was zeroed before measurements were taken as well as the correct probe chosen in the setup menu. The correction factor of the probe was programmed. The meter was set to 90.7mhz, the frequency of WETD, Alfred, NY.

The survey was initiated at a distance of .3 miles from the antenna location. No other RF Radiating antennas were observed in the area.

A thorough survey was done of the area, including directly underneath the antenna as well as varying distances around the entire 360 degree area. It was noted that no reading was over 5.2% of standard. The maximum reading of 5.2% of standard was noted at a distance of 45' from the base of the tower. Most areas were consistently in the 2.7 to 3.2% of standard range in the entire nearfield area. Directly underneath the antenna, the reading was 2.93% of standard.

I have been employed in the broadcast industry for over 25 years and am familiar with the use and operation of RF Equipment. The readings in this study are consistent with what would be expected from a three bay full wave spaced antenna of this style.

It may therefore be concluded that WETD, Alfred, NY, is within the RF Radiation Guidelines for an uncontrolled environment.

Sincerely,
James L Travis
Consulting Engineer

James L Travis Date June 5, 2009


SANDY PARKER
Notary Public, State of New York
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