

Eng. Ruben Navarro WEYS Ch 6 90 day Report

09-18-2023

The WEYS field strength measurements were performed following the considerations below.

- All measurements were done at 10 ft above ground
- In all measurements the antenna was rotated 360 degrees until the best signal strength was found
- All measurement spots were the same spots as before

The equipment used to perform the field strength measurements were the following:

- EKA P275 FM Analyzer calibrated
- Teledes ATSC 1.0 & 3.0 H30+ EVO TV analyzer.
- Simple Dipole Antenna with 0dB Gain
- 10' feet low loss RG6 cable
- 75-300 Ohm outdoor matching transformer

Other Considerations

- The TPO of the FM Transmitter was 2000W CW during the measurements
- The TPO of the TV Transmitter was 1080W RMS during the measurements
- The Transmission line is an 850 ft EIA 1 5/8" Dielectric Foam with EIA 1 5/8" flanged connector on both ends
- Additional transitions, a 7/8" to 1 5/8" and a 7/16" to 1 5/8" adapter with a 10 ft long 1/2" Superflex RF cable with DIN 7/16" connectors on both ends (FM)
- SIRA FMC-01/04 4-bays antenna system, Elliptical circular polarization 50/50, Gain: 2.82 times (4.5dB)

Attachments

- The WEYS Field Strength Measurement Map
- Measurement Table
- Measurement Pictures

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