

Spurious Emissions Report for WOSC

On September 24, 2004 measurements were taken on the WWFG, WLBW, WOCM and WOSC main transmitters operating into a combined antenna system as specified in license number BLH-20020320ABX, BLH20020320ABP, BLH-20020321AAG and construction permit BPH-20010306ABC in Bishopville Maryland using a Hewlett Packard 8558B spectrum analyzer to demonstrate compliance with section 73.317(b) through 73.317(d) of the FCC rules and Regulations.

A sample of the WWFG, WLBW, WOCM, WOSC signals was obtained from the main transmission line at the output of the combiner and was coupled to the spectrum analyzer using a short length of RG-142 50 ohm double shielded coaxial cable. 10db of attenuation was inserted to avoid overload and provide isolation.

The unmodulated carrier level of WWFG was +6.0dbm the unmodulated carrier of WOSC was +1.0dbm and the unmodulated carrier of WLBW and WOCM was -3dbm. Since the WLBW and WOCM reference level was lower it was used as the reference for all harmonic, spurious and intermodulation measurements. All measurements were conducted with the transmitters and associated equipment adjusted as used in normal program operations.

All four transmitters were found to be in compliance with section 73.317(b) of the FCC rules with occupied bandwidth to be 240 kHz or less with all emissions on frequencies removed from the carrier frequencies from 120 kHz to 240 kHz attenuated by at least 25 dB below the unmodulated carriers.

All four transmitters were found to be in compliance with section 73.317(c) of the FCC rules with all emissions on frequencies removed from the carrier frequencies from 240 kHz to 600 kHz attenuated by at least 35db

Additionally, the four transmitters were found to be in compliance with section 73.317(d) of the FCC rules with all emissions on frequencies removed from the carrier frequencies by more than 600kHz attenuated by at least 80db.

In addition a search for intermodulation and harmonic frequencies based on all possible mathematic products of the combined operation through third order was done with no products found.

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