

Testing of the WOSC and WLBW Auxiliary Antenna in Bishopville Maryland

On the 17th of March, 2010 measurements were performed on the auxiliary antenna at the Bishopville, Maryland combined transmitter site. The purpose of the measurements were to check for the presence of any spurious or potential harmful emissions while operating the WLBW 92.1 MHz transmitter, the WOSC 95.9 MHz transmitter or both transmitters combined into the auxiliary antenna. The test involved looking for any spurious emissions produced from 100 kHz to 1.0 GHz above or below the carrier, and confirming that any, if found would be attenuated at least 80 Db below the carrier of either station or both stations combined into the antenna. See attached drawing for diagram of test set up.

The results of the test confirmed that there were no spurious products produced for each individual station, that no combination of the two stations produced any measureable signals above the 80 dB threshold and that both stations are on their assigned frequencies, are within the defined limits for occupied bandwidth and are capable of operating normally on the auxiliary antenna. Both transmitters were operated at their normal TPO and at 25 % TPO in the course of testing.

Ray Fantini

A handwritten signature in black ink, appearing to read 'Ray Fantini', with a long, sweeping underline.

Aux Antenna



directional coupler

WLBW 92.1

WOSC 95.9

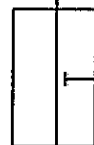
WWFG 99.9
Not Included

WOCM 98.1
Not Included

WWFG and
WOCM are not part
of the auxiliary
antenna operating
mode of this
system.

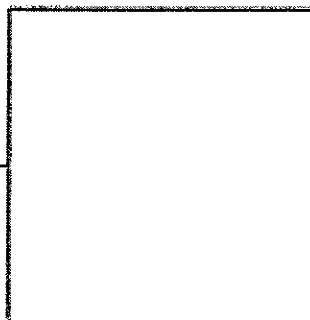


Dielectric Combiner



Main Antenna

10 dB pad and
filters



HP 8591E
Spectrum Analyzer