

During the week of March 1, 2010, the antenna and transmission line of FM broadcast station WIKZ was replaced. This antenna is on the tower which is the antenna of AM broadcast station WCHA, 800 kHz, Chambersburg, PA.

The tower is skirt fed for WCHA.

The most recent feed point impedance measurements on this facility were made in April, 2005, and the result on the station operating frequency at that time was $31.0 +j377.6$.

On March 6, 2010, after all tower work on the FM system was completed, I measured the feed point impedance of WCHA. The measurement was made at the J-plug at the output of the antenna tuning unit. The measurement was made with a Delta OIB-1, SN266, last calibrated by the manufacturer 7/21/2008. The measurement was made using the station transmitter, operating at normal power, as a signal source.

The measured value was $31 +j374.4$.

No change in operating constants are necessary.

For reference, the impedance measured at the input J-plug was $50 -j1$.



William Weeks
March 7, 2010