

# Alsobrook Electronics

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Measurement Procedure statement for WCGL 1360 AM Jacksonville Florida, FCC Facility 30609.

On February 22, 2017 I performed AM base impedance measurements as required by CP BMPFT-20161107ACL.

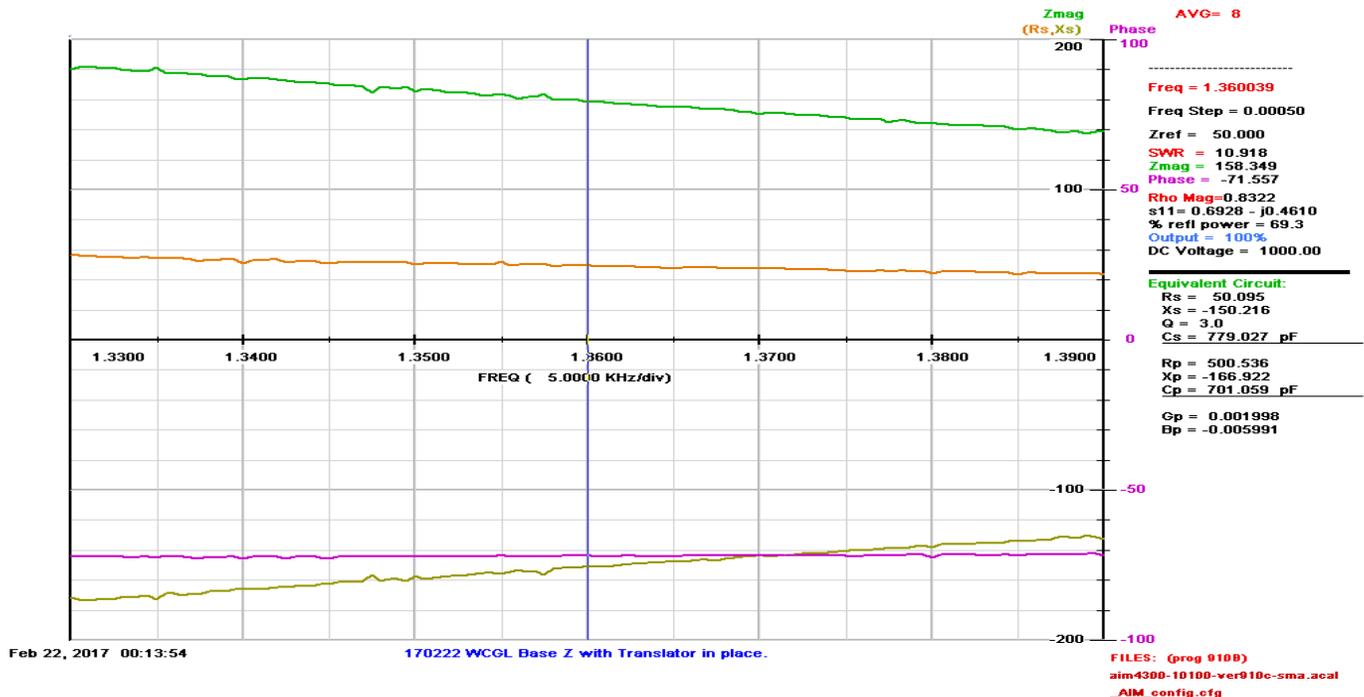
That construction permit was for the installation of an FM antenna at the top of the tower for W234CW, FCC Facility ID 155781.

While the tower crews were on the tower the AM station's were de-energized and locked out.

The measurement was performed after all tower work was completed and all personnel were clear of the tower.

To measure the base impedance of the tower a VNA (Voltage Network Analyzer) was calibrated on site, and then placed across the feed point of the antenna and operated to perform a sweep from 1330 KHz to 1390 KHz. The data obtained by from that measurement was reviewed to determine the resistance and reactance at the carrier frequency of 1360 KHz.

All measurements were performed directly by myself. The resulting data is shown below.



The results of the measurements are:

WCGL 1360KHz 50.095 Ohms Resistance and -150.216 Ohms Reactance (-39% Change)

This result indicates that a new 302-AM will be required to be filed.

Daytime 5000 Watts 50 Ohms 10Amps

Nighttime 89 Watts 50 Ohms 1.33Amps

Alan Alsobrook is a SBE certified Senior Radio Engineer, with an AM Directional Specialist endorsement, and holds FCC license PG-6-11216.

Alan Alsobrook CSRE AMD.