Kessler and Gehman Associates, Inc.
Consultants • Broadcast • Wireless

K G A ENGINEERING

507 NW 60th Street, Suite C
Gainesville, FL 32607
Phone 352-332-3157
Fax 352-332-6392

CONSTRUCTION PERMIT LICENSE TO COVER MODIFICATION

1.0 Broadcast Antenna Make and Model Substitution

The WNPB-TV Construction Permit[1] ("CP") specifies a Dielectric TFU-16GTH-R C170 broadcast antenna; however, the applicant was required to put the antenna construction out for bid. To qualify for bidding, the competing antenna manufacturer must be able to produce an antenna with an identical azimuth patten as the permitted antenna. Propagation Systems Inc. ("PSI") was the low bidder and was awarded the contract to build the CP antenna. Attached is an antenna specification sheet for the substituted PSI PSIUSMT18C170-34-EP antenna which has an identical relative field azimuth pattern as the CP.

The elevation pattern of the PSIUSMT18C170-34-EP antenna is different than the TFU-16GTH-R C170 antenna and thus a study for human exposure to Radio Frequency Radiation ("RFR") was compiled and attached which demonstrates the substituted antenna is well within the general population or uncontrolled exposure threshold.

2.0 Antenna Center of Radiation Elevation Reduction

The PSI model PSIUSMT18C170-34-EP is 2.7 meters shorter than the CP Dielectric TFU-16GTH-R C170 broadcast antenna and has a center of radiation which is 1.5m lower than authorized. The CP center of radiation shall be reduced from 143.2m AGL, 934.5m AMSL, and

[1] FCC File No.: 0000034624

507 NW 60th Street, Suite C
Gainesville, FL 32607
Phone 352-332-3157
Fax 352-332-6392

an HAAT of 449.6m to 141.7m AGL, 933.0m AMSL, and an HAAT of 448.1m respectively. Pursuant to Section 73.1690, the 1.5m reduction in antenna height is well within the 2m above or 4m below aperture for a construction permit license to cover correction. As demonstrated in the RFR study separately attached, the reduced antenna height is well within the general population or uncontrolled exposure threshold.

3.0 Overall tower height Elevation Reduction

Due to the shorter top mounted antenna, the overall tower height shall be reduced from 150.3 meters (493 feet) to 147.6 meters (484.4 feet). Antenna Structure Registration Number 1035128 and FAA study number 2012-AEA-4710-OE shall be modified shortly after the submission of the instant application for the reduced height.