

March 21, 2016

Mr. Ron Crider  
Global American Broadcasting  
2300 5<sup>th</sup> Avenue, Suite 131  
Vero Beach, FL 32960

RE: Proposed 150' Sabre Monopole for Port St. Lucie, FL

Dear Mr. Crider,

Upon receipt of order, we propose to design and supply the above referenced Sabre monopole for a Basic Wind Speed of 122 mph with no ice, Structure Class II, Exposure Category C and Topographic Category 1 in accordance with the Telecommunications Industry Association Standard ANSI/TIA-222-G, "Structural Standard for Antenna Supporting Structures and Antennas" and an Ultimate Wind Speed of 157 mph (Risk Category II), in accordance with the 2014 Florida Building Code.

When designed according to this standard, the wind pressures and steel strength capacities include several safety factors, resulting in an overall minimum safety factor of 25%. Therefore, it is highly unlikely that the monopole will fail structurally in a wind event where the design wind speed is exceeded within the range of the built-in safety factors.

Should the wind speed increase beyond the capacity of the built-in safety factors, to the point of failure of one or more structural elements, the most likely location of the failure would be within the upper portion of the monopole shaft. Assuming that the wind pressure profile is similar to that used to design the monopole, the monopole will buckle at the location of the highest combined stress ratio within the upper portion of the monopole shaft. This is likely to result in the portion of the monopole above "folding over" onto the portion below, essentially collapsing on itself. ***Please note that this letter only applies to the above referenced monopole designed and manufactured by Sabre Towers & Poles.*** In the unlikely event of total separation, this will result in collapse within a radius of 150 feet.

Sincerely,

Robert E. Beacom, P.E., S.E.  
Senior Design Engineer

