

MINOR CHANGE APPLICATION
CORRECTION OF COORDINATES
STANLY COMMUNICATIONS, INC.
WSPC AM RADIO STATION
1010 kHz - 0.064/1.0 kW - NDU
ALBEMARLE, NORTH CAROLINA
January 2015

EXHIBIT #4

Radio Frequency Assessment

A study has been made to determine whether this proposal is in compliance with 47 C.F.R. §1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997 ("Bulletin"), regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby stations and utilizes the appropriate formulas contained in the OET Bulletin.

At the WSPC frequency of 1010 kHz, the WSPC tower has an electrical height of 92.4° (0.257λ). The tower is fenced at a minimum distance of 1.0 meter (3.3 feet) from the radiating structure. Based on the guidelines of the OET bulletin, at the WSPC daytime power of 1.0 kilowatts¹, calculations indicate that 87.9 V/m and 0.686 A/m will be present at the fence perimeter. Since the WSPC frequency is below 1340 kHz, the calculations for the controlled and uncontrolled environments are the same. This electric field value represents 14.3% of the electric field limit of 614 V/m. This magnetic field represents 42.1% of the magnetic limit of 1.63 A/m. In this case, the magnetic field contribution to the uncontrolled limit of 42.1% is considered as the worst case contribution.

1) Considered a worst case condition

Since this contribution level is below the 100% limit defined by the Commission, the proposed WSPC facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, Stanly will verify that warning signs have been posted at the tower base warning of potential radio frequency radiation hazards at the site. In addition, Stanly will reduce the power of the proposed facilities or cease operation as necessary, in cooperation and coordination with other tower users to protect persons having access to the site, tower or antenna from radio frequency radiation in excess of FCC guidelines.