

WGSC-CD & WGS-CD MINOR CHANGE APPLICATIONS FOR CP
CH 8 0.8 kW DA OPERATION
MURRELLS INLET, SOUTH CAROLINA
ENGINEERING NARRATIVE AND
RF RADIATION ENVIRONMENTAL ANALYSIS
OCTOBER 2021

WGSC-CD AND WGS-CD share the same channel and are currently operating under STA at reduced power at a new site as specified in FCC file numbers 0000143597(WGSC-CD) and 0000143598 (WGS-CD). These applications specify the exact facilities authorized in the noted STAs. Since the proposed 48 dBu is wholly within the licensed 48 dBu no TVStudy analysis is believed necessary.

A CP for operation on FCC Tower Registration #1045945 is requested. The proposed facility will utilize a pair of stacked Aldena ALP 0704710 elliptically polarized log periodic antennas oriented at 40 degrees true with an ERP of 0.8 kW to place the STA 48 dBu contour wholly within the licensed 48 dBu contour. The antenna radiation center will be 76.2 meters above ground. Utilizing formula 10 OF OET Bulletin No. 65, Edition 97-01 has been used to calculate the power density 2 meters above ground. The maximum power density is 9.7 uw/cm squared calculated for an ERP of 800 watts H. polarization and 800 watts V. polarization. This value is 4.85% of the Public Exposure MPE per section 1.1310. Based on this analysis it is believed that the proposed facility is in compliance with OET-65 Guidelines.

The applicant will reduce power or cease transmission as required to meet FCC OET-65 Guidelines.

The foregoing was prepared on behalf of Beach TV of South Carolina, Inc. by Clarence M. Beverage of *Communications Technologies, Inc.*, Medford, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The undersigned certifies, under penalty of perjury, that the statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.



By _____

Clarence M. Beverage
for Communications Technologies, Inc.
Medford, New Jersey
October 14, 2021

