

ENGINEERING STATEMENT IN SUPPORT OF  
APPLICATION FOR MINOR MODIFICATION OF CONSTRUCTION PERMIT  
WGSJ-CD SHARE WITH WGSC-CD CH 8 FACILITY ID 4349 FILE NUMBER 0000035742  
MURRELLS INLET, SOUTH CAROLINA  
MARCH 23, 2018

**SUMMARY**

This statement has been prepared in support of an application for minor modification of construction permit which proposes a replacement of the currently proposed elliptically polarized, Kathrein antenna system, with an elliptically polarized, Aldena antenna system which increases the footprint of the CH 8 facility. No change in the current RC of 256.1 M AMSL is proposed but the ERP is reduced to 2.25 kW. This is the current location of the antenna system of station WGSJ-CD which holds a construction permit for channel sharing with WGSC-CD. This narrative is in support of sharing applications to be filed by WGSC-CD and WGSJ-CD to reflect construction permit facilities authorized to WGSC-CD in FCC File number 0000035742.

**RF RADIATION**

The proposed antenna system consists of a custom composite antenna system made up of Aldena ALP1104712 and ALP0704710 log periodic antennas with the radiation center 250 meters AGL. Utilizing formula 10 OF OET Bulletin No. 65, Edition 97-01, a value F of 1.0 has been used to calculate the power density 2 meters above ground. The maximum power density is 2.44 uw/cm squared calculated for an ERP of 2,250 watts H. and V. polarization. This value is 1.2% of the Public Exposure MPE of 200 microwatts per centimeter squared. 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 proposed tower is an existing site with tower, building, access road and power.



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