

STA REQUEST, ENGINEERING NARRATIVE AND RF RADIATION ANALYSIS
WWKQ-LD CH 34 2.5 kW DA H.POL. ONLY
QUEBRADILLAS, PUERTO RICO
AUGUST 2018

CMCG Puerto Rico License, LLC (“CMCG”), permittee/licensee of LPTV station WWKQ-LD, notified the Commission that the station went off the air on September 6, 2017 due to Hurricane Irma. The station has remained dark since that time. On August 2, 2018 the Commission issued a construction for CH 34 displacement facilities under file number 0000051821. CMCG has determined that the antenna specified in the construction permit will take a month for fabrication followed by additional time for shipment from the U.S. mainland to Puerto Rico followed by additional time for installation and testing. Additionally, the backlog for ordering a new transmitter with sufficient power to meet the coverage specified in the CP and related equipment is now up to three months. Since there is clearly insufficient time to implement the CP facility before the one-year anniversary of the station going dark due to Hurricane Irma CMCG herein requests expedited grant of STA to construct a temporary CH 34 transmission facility.

The proposed STA facility employs the exact same site, antenna RC AGL, CH 34 and ERP as the authorized construction permit.

The proposed antenna system consists of a single PSI, horizontally polarized, wide band, panel antenna model PSIUP-34-HP. Power density has been calculated using a maximum relative field in the elevation pattern of 0.3 with a radiation center 29 meters above ground. Utilizing formula 10 OF OET Bulletin No. 65, Edition 97-01, a value F of 0.3 has been used to calculate the power density 2 meters above ground. The maximum power density is 10.3 uw/cm squared calculated for an ERP OF 2,500 watts H. polarization. This value is 2.62% 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.

As seen on the attached map, Figure 1, the proposed 51 dBu F(50,90) STA contour lies wholly within the 51 dBu F(50,90) CP contour and thus no impermissible interference is believed to be associated with the proposed STA facility.

The foregoing was prepared on behalf of CMCG Puerto Rico, LLC by Clarence M. Beverage of *Communications Technologies, Inc.*, Marlton, 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.
Marlton, New Jersey
August 13, 2018