

Parameters of Requested STA Extension

WNIK-FM lost part of its antenna and tower during Hurricane Maria on September 20, 2017; a Silent STA was filed with the FCC. The station proposes to restore service by using a One-Bay circular antenna (power gain = 0.46) at its licensed site (using the remains of its tower) at a height of 50 feet AGL, with a TPO of 1.5 kW and 60 feet of 1-5/8' foam Heliax line (power eff. of 97 %); this translates to an ERP of approximately 0.67 kW (circular).

RF exposure: based on an ERP of 0.67 kW (circ. pol.), a worst-case field value of 0.88 and an antenna height of 50 feet AGL, it is estimated that the RF exposure at a height of 2 meters AGL will be 198 $\mu\text{W}/\text{sq. cm.}$, which is below the 200 $\mu\text{W}/\text{sq. cm.}$ allowed by the FCC for a public environment. The antenna site is surrounded by an adequate fence and the antenna base and equipment building surrounded by a locked fence to prevent public access to the antenna system; appropriate warning signs are to be posted at the site.