Mueller Broadcast Design
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Introduction and Description of Proposal

This engineering exhibit was prepared in support of a minor change application being filed by Relevant Radio, Inc. for authority to change the authorized transmitter site and directional antenna at W260DM (CP) (FCC Facility ID 203268), St. Petersburg, Florida. This proposed facility fully meets all relevant FCC allocation rules and requires no waivers for grant. The proposed composite antenna consists of two Scala CA2-FM/CP circularly polarized antennas with a 50% power split, one at 60° and the other at 290° true.

Fill-in Translator Eligibility

The proposed FM translator's 60 dBu contour is completely within the daytime 2 mV/m contour of primary station WWMI as shown on the attached map. The proposed translator antenna will be mounted at the top of the WWMI daytime tower.

Environmental Statement

The proposed facility requires no construction except for the mounting of the antenna at the 59.5 meter above ground level on an existing tower. The worst-case power density at 3 meters above ground assuming the full 250 watts ERP is directed to the ground is 2.62 $\mu W/cm^2$, far below the uncontrolled space limit of 200 $\mu W/cm^2$. The station will cease operation when personnel must be near the antenna for longer than allowed. Access to the antenna structure is limited by a locked gate with appropriate warning signs posted.

This engineering exhibit was prepared by me and is true and correct to the best of my knowledge and belief.

March 26, 2021

Mark A. Mueller