

ENGINEERING STATEMENT
MARYLAND PUBLIC BROADCASTING COMMISSION
APPLICATION TO CONSTRUCT AN AUXILIARY FACILITY
WMPT, ANNAPOLIS, MD, CH 21
LICENSED MAIN: 1000 kW(H), 500 kW (V), NON-DIRECTIONAL, 284 m HAAT
PROPOSED AUXILIARY: 800 KW(H), NON-DIRECTIONAL, 239 m HAAT

This statement supports a request by Maryland Public Broadcasting Commission, licensee of WMPT, FCC File Number 0000084314, to construct an auxiliary facility for use when the main antenna is not available.

The map attached to this Statement shows a comparison of the noise limited contours for the licensed main antenna and the proposed auxiliary antenna. As shown on the map the predicted noise-limited contour for the proposed auxiliary facility is totally inside that of the licensed contour. The station will continue to provide a Principal Community Contour of greater than 48 dBu over its city of license, Annapolis, Maryland, as shown on the map in magenta.

TVStudy returned an alert that the proposal is within the coordination distance of the FCC monitoring station at Laurel, MD, and calculated a predicted field strength of 30.6 mV/m from WMPT. It is noted that this field strength is less than the normal operation for WMPT on its main antenna.

An interference analysis was performed pursuant to the parameters used by the Commission for application interference processing. The results of the analysis showed that the proposed auxiliary facility for WMPT is not predicted to cause interference to other stations currently operating on, or adjacent to, Channel 21. The analysis was performed using the methodology stated in OET-69 using the same software (TVStudy v2.2.5) utilized by the Commission and, therefore, should yield similar results.

**WMPT, ANNAPOLIS, MD, CHANNEL 21
CONTOUR COMPARISON
MAIN: 1000 KW(H), 500 kW(V), 284 m HAAT
PROPOSED AUX: 800 KW(H), 239 m HAAT**

