

Engineering Statement
WTXF-TV Channel 31 Philadelphia, PA
Auxiliary Site Facility
August 22, 2019

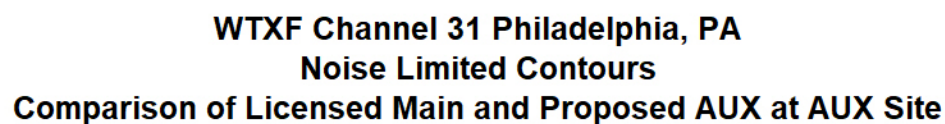
The purpose of this application is to modify the WTXF-TV Digital Auxiliary Licensed Facility located at 8200 Ridge Ave. Philadelphia, PA. The application proposes to change the channel to the assigned Post Incentive Auction channel 31, change the antenna model and reduce the effective radiated power (ERP) from 1,000 kW to 419 kW. The location and height will remain the same as the currently authorized auxiliary facility.

In addition to the power reduction, this application proposes to change the antenna model from the authorized Andrew ATW22H3-ETO-42H to an ERI ATW18HS3-ETO-31H. The azimuth pattern remains non-directional and the electrical beam tilt also remains 0.75 degrees.

An analysis using the FCC's TVStudy software with its default settings has indicated that WTXF-TV can make the above described modifications without causing new interference to other stations above the allowable de minimis limit. A copy of the TVStudy analysis result file showing no interference above the allowable de minimis limit is attached to this application.

It has also been determined that the predicted noise limited contour does not exceed that of the main authorized facility (see attached contour map)

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WTXF Channel 31 Philadelphia, PA
Noise Limited Contours
Comparison of Licensed Main and Proposed AUX at AUX Site