

STA Engineering Statement and Justification
Reduced Power STA
WTXF-TV Channel 31 Philadelphia, PA
July 22, 2019

The purpose of this application is to request a Special Temporary Authority (STA) for reduced power operation using the facility described on Construction Permit (CP) File No: 0000034830. Construction of the facility described in the CP has been completed; however, a problem with the new mask filter will require the station to operate at reduced power until the manufacturer resolves the problem.

The facility described in the CP specifies an effective radiated power (ERP) of 1,000 kW. In order to achieve the 1,000 kW ERP, the power into the mask filter must be 96.49 kW. Until the mask filter problem is solved, the maximum power into the filter will be limited to 75 kW (-1.094 dB) to maintain a safe margin. Therefore, the ERP will be 777 kW instead of the authorized 1,000 kW.

In that no other changes are proposed no new interference will be caused to other stations.

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