

TECHNICAL EXHIBIT
IN SUPPORT OF
SPECIAL TEMPORARY AUTHORITY (STA)
FOR STATION WTVM-DT (FACILITY ID 595)
COLUMBUS, GEORGIA
CH 11 6.7 KW 507 M

Technical Narrative

This Technical Exhibit supports a Special Temporary Authority (STA) for digital television station WTVM-DT on channel 11 at Columbus, Georgia. Station WTVM-DT is authorized to operate on digital channel 11 (post-transition) with a non-directional antenna effective radiated power (ERP) of 50 kilowatts (kW) and an antenna height above average terrain (HAAT) of 507 meters (BPCDT-20090204ACL).

This application requests a special temporary authority (STA) to permit WTVM-DT to operate at a reduced ERP of 6.7 kilowatts until its new transmitter can be installed.

Proposed STA Facilities

WTVM-DT will utilize its post-transition antenna and site, except with a reduced ERP. The proposed (NAD27) coordinates are: 32-19-25 N, 84-46-46 W. The WTVM-DT STA operation proposes use of an RCA non-directional antenna with an ERP of 6.7 kW at an antenna HAAT of 507 meters. The proposed antenna radiation center above mean sea level is 479.6 meters.

As the proposed STA operation is identical to the authorized operation, except for a reduction in ERP, it is obvious that the proposed STA operation will not extend coverage beyond its currently authorized operation (BPCDT-20090204ACL). Therefore, no coverage map is being included.

Population Served

The herein proposed WTVM-DT STA facility is predicted to serve 826,626 persons, post-transition, based upon the 2000 Census. WTVM-DT's associated Appendix B facility is predicted to serve 1,377,000 persons. WTVM-DT's associated Analog Grade B facility is predicted to serve 777,231 persons. Therefore, the herein proposed WTVM-DT STA facility would serve more than 100% of the WTVM-DT's analog population.



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WTVM-DT RF Transmission System Specifications

Description	System
Transmitter Power Output (1 kW):	0.0 dBk
Transmission Line Loss (64%):	1.93 dB
RCA (10.5 Power Gain):	10.2 dB
Effective Radiated Power (6.7 kW):	8.27 dBk