

TECHNICAL EXHIBIT
DIGITAL FLASH-CUT DISPLACEMENT APPLICATION
FOR LPTV STATION WPXB-LP (FACILITY ID 10321)
DAYTONA BEACH, FLORIDA
CH 50 15 KW-ND

Technical Narrative

This Technical Exhibit supports a flash-cut digital television (DTV) displacement application for low power television (LPTV) station WPXB-LP at Daytona Beach, Florida (Facility ID 10321). Station WPXB-LP is licensed (BLTT-20000817ABM) to operate on out-of-core analog channel 57(+). A non-directional antenna system is employed with a visual effective radiated power (ERP) of 34 kilowatts (kW). The antenna radiation center height (RCAMSL) is 127 meters above mean sea level (AMSL). The FCC antenna structure registration number is 1020771 and the site coordinates are 29-10-24, 81-09-24 (NAD-27).

Proposed Facilities

This application proposes digital operation on in-core channel (50), at the current transmitter site, at the same antenna height, and with the same antenna pattern. A Dielectric model TLP-24A non-directional antenna system will be used. The proposed DTV ERP is 15 kW-ND and the antenna RCAMSL will remain 127 meters AMSL.

Figure 1 is a map showing the licensed 74 dBu (analog) and proposed 51 dBu (digital) coverage contours. As can be seen on the map, there is common area where both contours overlap.

Allocation Considerations

A study has been conducted to assure that the proposal will not create prohibited interference with other licensed, authorized or pending analog or digital TV, LPTV/translator and Class A TV stations. Using the procedures outlined in the FCC's OET-69 Bulletin, a 1 kilometer grid, and 1990 U.S. Census, the proposal complies with the current FCC policy (i.e., less than 0.5% new interference caused to other pertinent assignments). If necessary, a waiver of the FCC rules is respectfully requested based on use of the procedures outlined in the FCC's OET-69 Bulletin.

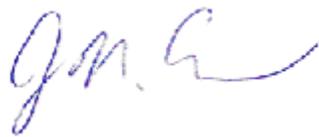
The applicant recognizes the proposal is secondary to authorized full-service analog and DTV operations. The applicant understands that it must correct and/or eliminate prohibited interference that may result from its proposed operation.

Radiofrequency Electromagnetic Field Exposure

The proposed WPXB-LP facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the antenna is located 115.7 meters above ground level. The proposed maximum ERP is 15 kW. Based on a downward relative field of 0.2, the calculated power density at a point 2 meters (6.6 feet) above ground level will not exceed 1% of the FCC's recommended limit of 0.46 mW/cm² for channel 50 for an "uncontrolled" environment.

Access to the transmitting site will be restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner as part of the tower registration process.



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