

Engineering Statement
Miami Television Station WBFS Inc.
WBFS-TV (STA) Miami, Florida
Facility ID 12497
Ch. 32 301 kW (Max-DA) 243.7 m

Miami Television Station WBFS Inc. (Paramount) seeks special temporary authority (STA) to use an existing, broadband antenna for WBFS-TV, Florida (station) during tower construction near the station's licensed antenna. The directional antenna, with a peak effective radiated power (ERP) of 301 kW, would be required starting September 15, 2023 for a period not expected to exceed 30 days.¹ This Statement addresses allocations, environmental and radiofrequency factors related to the proposal.

The attached **Figure 1** coverage map shows that the proposed service contour does not extend over land beyond the main WBFS-TV antenna service contour.² As the proposed facility is not within 3 kilometers of any AM broadcast station, FCC Rule §1.30002 is not triggered. The nearest FCC monitoring station is 186 km distant at Vero Beach, FL, well beyond the protection radius specified in §73.1030(c). Thus, it is believed that the proposed facility satisfies all allocation matters.

The proposed facility uses an existing antenna and tower with no change in overall height, marking, or lighting specifications.³ Consequently, this application is categorically excluded from environmental processing. With the slight power reduction, radiofrequency exposure levels to publicly accessible areas will generally be reduced and well within the FCC's guidelines. Tower access will continue to be controlled and RF exposure warning signs will continue to be posted. A site exposure policy is in effect that includes restriction of access, power reduction, or the complete shutdown of facilities when work must be performed where predicted RF levels would otherwise exceed the FCC guidelines. On-site RF exposure measurements may also be undertaken to establish the bounds of working areas. The applicant will continue to coordinate exposure procedures with all pertinent stations.

¹ The work is ideally hoped to be completed in a week, weather permitting.

² See FCC file number 0000205002. §73.1675 specifies an analysis of Grade B contours. Instead, **Figure 1** provides dipole-corrected 41 dBμ service contours because "Grade B" is not defined for DTV stations.

³ See Antenna Structure Registration 1026553.

Figure 1
Temporary Facility Coverage Contours

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FCC 41 dBμ F(50, 90)
 Dipole Corrected Service Contours
 Licensed Facility (0000205002)
 Temporary Facility

Temporary Antenna Pattern

Rotation Angle = 0

