

Exhibit 24 – Engineering Statement

CBS Radio Annapolis LLC

WLZL(FM) College Park, Maryland

Facility ID 20983

Ch. 300B 49 kW(Max-DA) 151.1 m

CBS Radio Annapolis LLC (“*CBS Radio*”) has replaced the main WLZL(FM) College Park, Maryland directional antenna, which is located on the same structure, height, and ERP shown on the license.¹ Due to changes in antenna system gain, a commensurate change in transmitter output power is required for equivalent coverage. This application provides the information and certifications required by §73.1690(c)(2) of the FCC Rules, which permits such changes without prior authorization. *CBS Radio* seeks a modified license and authorization for full power, program test operations.

The attached coverage map demonstrates that the 70 dBμ coverage contour from the measured antenna pattern encompasses College Park, Maryland, WLZL’s principal community. Exhibits 25, 26, and 27 provide the Antenna Proof of Performance, Surveyor and Supervising Engineer’s Certifications, and Spurious Emissions Measurements respectively.²

The facility uses an existing tower with no change in overall height, marking specifications, or lighting specifications. Consequently, this application is categorically excluded from environmental processing.

The proposed operation was evaluated for radiofrequency exposure using the FCC Office of Engineering and Technology’s updated *FMModel* software³ which calculates RF power density at ground level given the height, power, and type of FM broadcast antenna. As demonstrated in the following, the proposed transmitting system complies with the FCC’s general population/uncontrolled maximum permitted exposure (MPE) exposure guideline of 200 μW/cm² for the FM broadcast band.

¹ See FCC File Number BLH-20151218AEF.

² The WLZL antenna will also serve as a non-directional auxiliary antenna for WDCH-FM. See FCC File Number BXPB-20161129AAO. Because a prior construction permit (BMPH-20131022ALD) required spurious emissions measurements of the two stations, measurements are provided herein for the sake of completeness.

³ See FCC Public Notice DA 16-340, Released March 31, 2016.

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The WLZL antenna is an ERI six-bay, 0.84 wavelength-spaced, model 1183-6CP-DA-SP circularly-polarized unit.⁴ Using this antenna type and WLZL's licensed parameters as input values, *FMMModel* predicts a maximum, ground-level power density of 5.7 $\mu\text{W}/\text{cm}^2$ or 2.85 percent of the MPE.

According to §1.1307(b)(3), facilities at locations with multiple emitters are categorically excluded from responsibility for taking any corrective action in the areas where their contribution is less than five percent of the MPE. Since the instant situation meets the five percent exclusion test at all ground level areas, the impact of any other facilities near this site may be considered independently from this proposal. Accordingly, it is believed that the impact of the proposed operation should not be considered to be a factor at ground level as defined under §1.1307(b).

Tower access will continue to be controlled and appropriate 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 appropriate guidelines. On-site RF exposure measurements may also be undertaken to establish the bounds of safe working areas. The applicant will coordinate exposure procedures with all pertinent stations.

⁴ A worst-case antenna type of "EPA Type 1: Ring-and-Stub or 'Other'" was utilized for this analysis.

