

ENGINEERING STATEMENT

FCC 302-FM application WJZ-FM fac. Id. 1916 Modify aux. license BXLH-20120215ABG March 21, 2013
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This application seeks to notify the Commission of a permissive antenna replacement and implementation of a shared combiner system utilized by an auxiliary facility for WJZ-FM. The replacement antenna is an ERI model 1184-2CP, omni-directional cogwheel design 2 levels spaced $\frac{1}{2}$ wavelength. The center of radiation above ground level is raised to **274** meters due to installation requirements. The current licensed center of radiation is **273** meters. CBS believes that the 1 meter increase in center of radiation meets the tolerance of + 2meters, - 4 meters. No change in ERP is being proposed.

The antenna is shared with the main facility of WWMX fac. Id. 74196 (106.5 mHz)¹ and an auxiliary facility of WLIF fac. Id. 28636 (101.9 mHz)². A combining system has been installed allowing all three stations to operate simultaneously if necessary. An intermodulation study with measurements has been completed and the report is attached to this application as an EXHIBIT.

An **Environmental Assessment** is not required as grant of this application would not be considered a major environmental action.

The transmitting antenna is mounted on a tower that has been registered with the Commission (ASR 1035558). The center of radiation is 274 meters above ground. The ERP is 0.43 kW H&V.

The proposed transmitting facilities will comply with the FCC guidelines limiting human exposure to radio frequency energy. The vertical pattern is typical of a standard ERI SHP rototiller type antenna. The maximum power density level at any location at ground level, calculated in accordance with OET Bulletin No. 65 (August 1997), would be less than 5% of the applicable limit for exposures of unlimited duration. Accordingly, the proposed facility is categorically excluded by FCC Rules from having to consider the contributions of other stations at the site. If work is done on the tower in an area where over exposure could occur, the Licensee in coordination with the other users will take necessary action to prevent the overexposure of workers on the tower including reducing the transmitting power or ceasing operation completely.

¹ An application for license for WWMX at this location is on file with the Commission. (BLH-20130107ABF)

² An application to modify the auxiliary license for WLIF is being filed con-currently with this application.