

**LIEBERMAN & WALISKO**  
*CONSULTING TELECOMMUNICATIONS ENGINEERS*  
701 YEATMAN PARKWAY  
SILVER SPRING, MD 20902

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**E N G I N E E R I N G   S T A T E M E N T**

This Engineering Statement is given on behalf of WYPR License Holding, LLC, licensee of WYPR- FM, Baltimore, MD seeking a license for WYPR. WYPR was granted a construction permit, BPED-20050719AFX, to increase its effective radiated power to 15.5 kW and to make changes to its directional antenna pattern. Those changes are now in place and WYPR Is ready to operate at its authorized facilities.

Engineering Exhibit 1 is a reproduction of the installation manual supplied by the antenna manufacturer. Certain pages having to do with warranties and other non-germane topics have been redacted. The installation instructions and sketches have been included to enable the Staff to fully understand the placement of this antenna on its supporting structure.

The instant installed antenna does not meet the requirements of 47 C.F.R. Section §73.316 (C) (2) (ix) (A) in that when compared to the authorized antenna pattern, 83.9% of the RMS value is achieved.

Engineering Exhibit 2 is a polar plot provided herewith to amend the current antenna envelope to the instant proposed antenna envelope. Engineering Exhibit 3 is a tabulation of the relative values for this new antenna envelope.

Engineering Exhibit 3 is a polar plot of the new antenna envelope (dashed lines) and the instant installed antenna

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**ENGINEERING STATEMENT (Cont'd)**

(solid line). The RMS value of the instant proposed antenna for license versus the instant proposed antenna envelope is 86.23%. Engineering Exhibit 4 is a tabulation of the measured pattern

The antenna has been installed and is oriented to the proper azimuths as evidenced by Engineering Exhibit 5 and in compliance with 47 C.F.R. §Section 73.316 (C) (2) (viii).

Statement with regard to 47 C.F.R. §Section 73.316 (C) (2) (iv), (v) and (vi): The instant antenna is side mounted on a structure that has been modeled by the antenna manufacturer when designing the instant directional antenna, nor is it mounted on top of an antenna structure which includes a top mounted platform larger than the cross section of the instant tower. Additionally, the instant antenna is not mounted on the same tower level as the instant antenna nor are there any appurtenances within the aperture of the instant antenna.

**TABULATION OF ERP AND TPO\***

	<u>Power in kW</u>	<u>Power in dB</u>
Desired ERP	15.5	11.90
Antenna Gain	1.34	1.271
335 feet Andrew HJ8-50B	1.11	0.4422
Transmitter Output	15.5	11.0745

\* Because of rounding, the power and dB computations do not match exactly

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Pursuant to 47 C.F.R. Section §73.316 (C)(2)(vii), this firm states its familiarity with and direct knowledge of the WYPR engineering staff and their ability to ensure that the installation of the instant antenna was conducted in accordance with the manufacturers written instructions and standards of good engineering practice.