

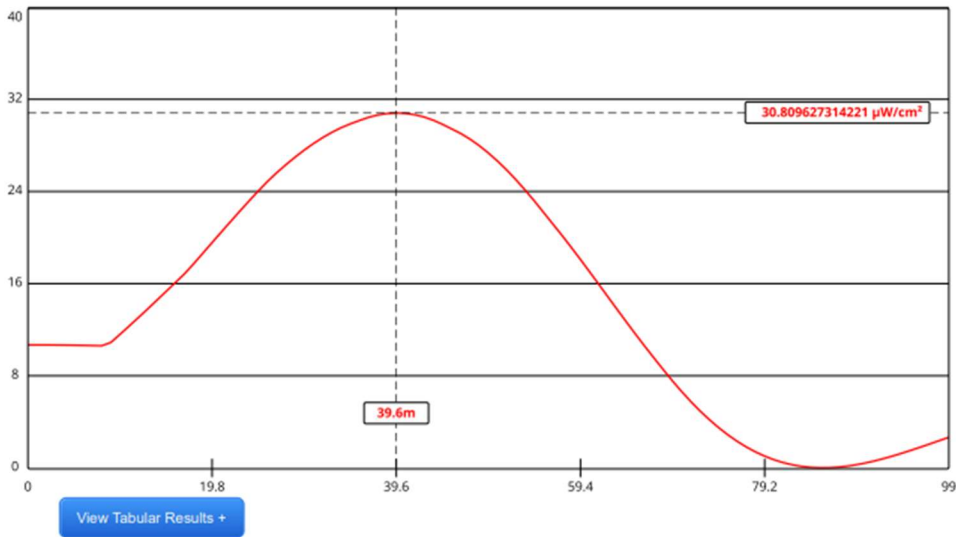
ENGINEERING STATEMENT IN SUPPORT OF APPLICATION FOR LICENSE  
WMAS-FM FACILITY ID 36543 CH 234B CP BPH-20190213ABD  
ENFIELD, CONNECTICUT  
MARCH 2022

This application has been prepared on behalf of Audacy License, LLC licensee of Commercial FM station WMAS-FM CH 234B, Enfield, Connecticut. This application specifies a new FM antenna for WMAS-FM in full compliance with construction permit BPH-20190213ABD.

It is noted that the construction permit 54 dBu F (50,50) contour does not exceed the licensed 54 dBu at any azimuth bearing. The station is operating with the full authorized ERP as provided for in 73.1615(a)(1). The directional FM antenna measured composite pattern does not exceed the CP envelope pattern at any azimuth. No change in coordinates, ERP or RC AGL are associated with this filing.

Special Operating Conditions are addressed below and uploaded as required :

1. The ERI Proof of Performance as specified in condition 1 has been uploaded.
2. The surveyor certification specifies the antenna orientation as 54.55 degrees which agrees with the ERI Proof of Performance.
3. Antenna installation per the ERI installation drawing has been certified to by Steven J. Callahan.
4. Figure 1 attached depicts the CP and measured composite pattern 70 dBu contours. Both contours cover 100% of the community of license, Enfield, Connecticut.
5. The measured H. Pol. and V. Pol. radiation patterns lie within the FCC CP envelope pattern. The principal minima ERP value of 1.6 kW is not exceeded at the 230 and 260 degree azimuth values.
6. The permittee/licensee will reduce power or cease operation as required to meet OET-65 public and worker exposure values.
7. A six section antenna was specified on the CP while an ERI MP-4E-DA, EPA Type 3, full wave spaced antenna was installed. FCC FM Model online software was utilized to determine that OET-65 guidelines are met. The FM Model output is pasted in following this text and shows a maximum power density of 30.8 microwatts per centimeter squared which is 15.4% of the public exposure guideline.



Channel Selection		Channel 234 (94.7 MHz) ▼	
Antenna Type -		EPA Type 3: Opposed U Dipole ▼	
EPA Type 1: Ring and stub, or any type not otherwise described		+	
EPA Type 2: Opposed "V" dipole		+	
EPA Type 3: Opposed "U" dipole		+	
EPA Type 4: Two-piece spiral		+	
EPA Type 5: Three-piece spiral or Four-piece spiral		+	
Height (m)	99	Distance (m)	99
ERP-H (W)	50000	ERP-V (W)	50000
Num of Elements	4	Element Spacing (?)	1
Num of Points	100	Apply	

The transmitter power output calculations are:

Andrew HJ8 3" air heliax

Cable Length is 372 feet / 113.4 Meters

Antenna Input Power: 10.613 KW

TPO: 11.88 KW Analog

The foregoing was prepared on behalf of Audacy License, LLC by Clarence M. Beverage of *Communications Technologies, Inc.*, Medford, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.



Clarence M. Beverage  
*for* Communications Technologies, Inc.  
Medford, New Jersey

March 16, 2022