

WMJM RFR Analysis

The proposed antenna system consists of a PSI FML-3C-50WS-H-DA circularly polarized, three bay, half wave spaced, V type radiator, with a radiation center 64 meters above ground.

Utilizing FM model to calculate the power density 2 meters above ground, the maximum calculated power density is 5.19 $\mu\text{W}/\text{cm}^2$ for an ERP of 6,000 watts V and 6,000 watts H Polarization. This value is 2.597 % of the allowable 200 $\mu\text{W}/\text{cm}^2$ power density for uncontrolled environments. Based on this analysis it is believed that the proposed facility is in compliance with OET-65 guidelines for public exposure on the ground.

The antenna is mounted on the rooftop of a building where access is through locked doors with RF warning signs. The applicant will comply with OET-65 guidelines with regard to control of the rooftop with regard to RFR compliance and will take measurements and mark out areas as necessary to comply with OET-65.

The applicant will reduce, or cease, transmission as required to meet FCC OET-65 guidelines for worker exposure.

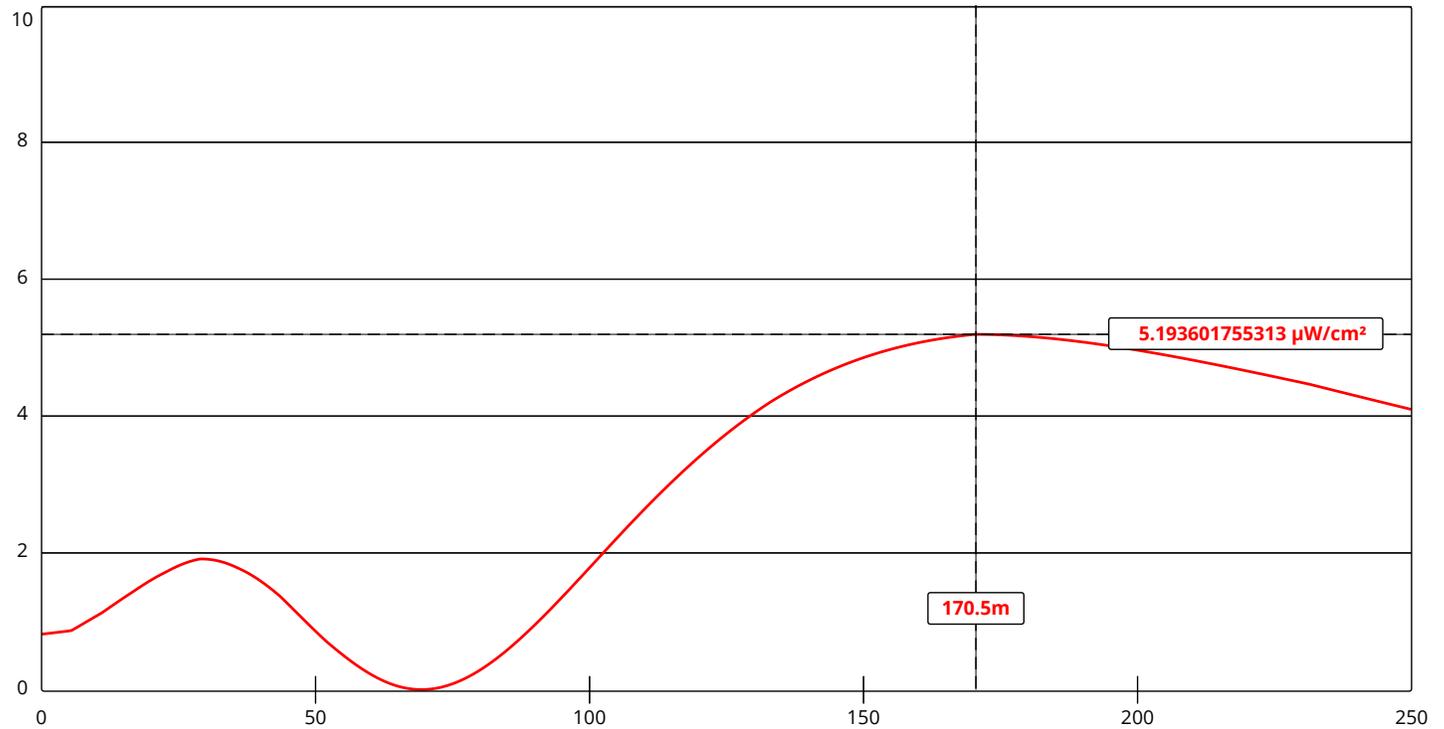
FM Model

The FM Model calculator determines the potential exposure from radiofrequency (RF) electromagnetic fields produced by FM broadcast station antennas at ground level. The FM Model software was originally developed by the FCC in 1997 as a standalone executable program and this improved version provides more precise predictions and runs via a JavaScript enabled web browser. The FM Model is originally based on measured data [published in 1985 by the EPA](#)

<http://nepis.epa.gov/Exe/ZyNET.exe/2000ED2W.TXT?>

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[&MaximumDocuments=1&FuzzyDegree=0&ImageQuality=r75g8/r75g8/x150y150g16/i425&Display=p|f&DefSeekPage=x&SearchBack=ZyActionL&Back=ZyActionS&AckDesc=Results%20page&MaximumPages=1&ZyEntry=1&SeekPage=x&ZyPURL\).](#) [▼ Show More....](#)



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Channel Selection	Channel 250 (97.9 MHz) ▼		
Antenna Type +	EPA Type 2: Opposed V Dipole ▼		
Height (m)	<input type="text" value="64"/>	Distance (m)	<input type="text" value="250"/>
ERP-H (W)	<input type="text" value="6000"/>	ERP-V (W)	<input type="text" value="6000"/>
Num of Elements	<input type="text" value="3"/>	Element Spacing (λ)	<input type="text" value="0.5"/>
Num of Points	<input type="text" value="500"/>	Apply	