The potential for human exposure to non-ionizing radiofrequency radiation at the proposed transmitter site has been evaluated. There are no other known broadcast facilities within 315 meters of the proposed antenna site for the proposed station serving Tillatoba, MS.

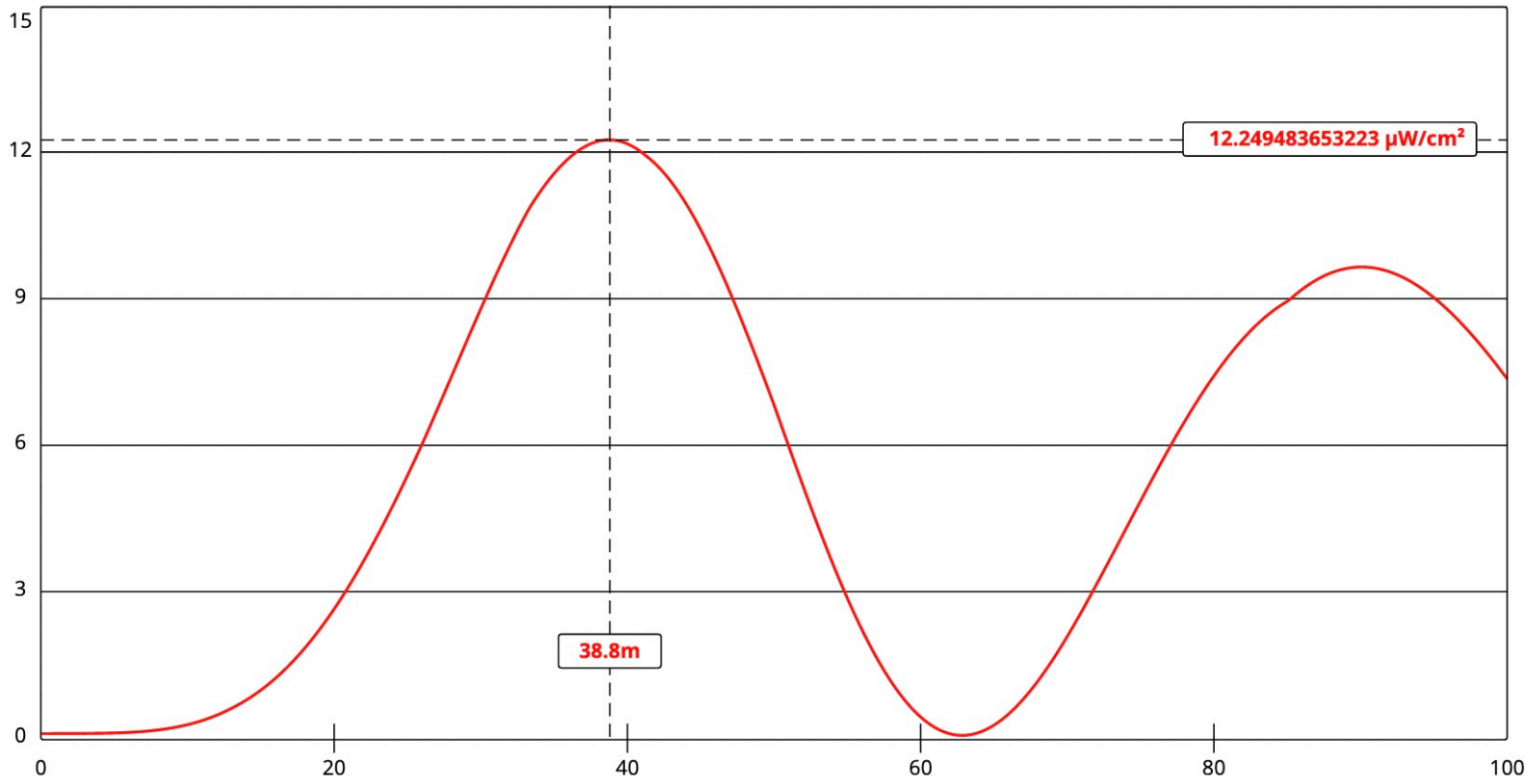
The new facility will operate on 88.1 MHz with a maximum effective radiated power (ERP) of 100 kW in both Horizontal and Vertical. The facility will operate with am eight (8) element directional antenna mounted 73.4 meters above ground level (AGL). For purposes of this study, a worst case 8 bay half wavelength spaced, EPA Type 1 element antenna as defined from FCC program FM Model Version has been assumed

The result of the evaluation with FMModel[1] for this proposed station is included on the last page of this exhibit. It shows that the maximum potential exposure from this proposed station will be 12.2 $\frac{\mu W}{cm^2}$ at a distance of approximately 38.8 meters from the tower site. This is less than the 200 $\frac{\mu W}{cm^2}$ that is acceptable for exposure to the general public.

In addition to the protection afforded by the proposed antenna heights above ground, the facility is properly marked with signs, and entry to the facility is restricted by means of fencing with locked doors and/or gates. Any other means that may be required to protect employees and the general public will be employed.

In the event work is required in proximity to the antenna(s) such that the person or persons working in the area will be potentially exposed to fields in excess of the current guidelines, applicant will cause their proposed transmitter to reduce power, or cease operation during the critical period.

[1] https://www.fcc.gov/general/fm-model



View Tabular Results +

Channel Selection	Channel 201 (88.1 MHz)		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other"		
Height (m)	73.4	Distance (m)	100
ERP-H (W)	100000	ERP-V (W)	100000
Num of Elements	8	Element Spacing (λ)	.5
Num of Points	500	Apply	