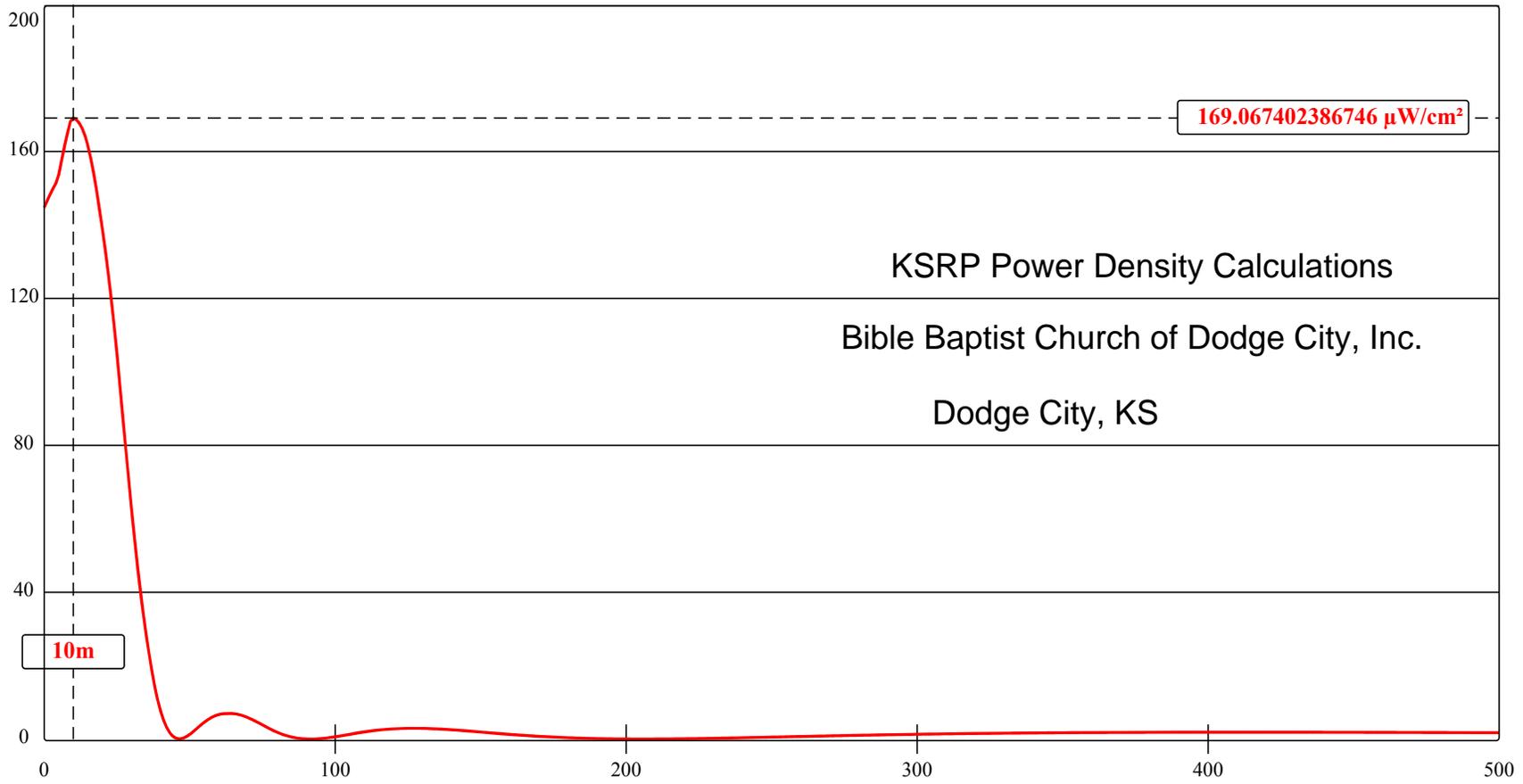


NONIONIZING RADIATION COMPLIANCE
(Page 1 of 2)
Bible Baptist Church of Dodge City, Inc.
Dodge City, KS

The proposed facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. Assuming, as a worst case, the use of an “EPA Type 1” four bay full wave spaced circularly polarized non-directional antenna that will be mounted at the 54.9 meter level on a 60.7 meter tower. The power density levels at two meters above ground level for the proposed facilities were calculated using the FCC’s “FM Model” computer program. The results of these calculations are shown in the attached figure. This figure shows that the worst case predicted power density at two meters above ground level for these facilities will be $169.1 \mu\text{W}/\text{cm}^2$, which will occur at a horizontal distance of 10 meters from the base of this tower. Since the permitted power density in the FM band is $200 \mu\text{W}/\text{cm}^2$, this amounts to only 84.6% of the permitted level for uncontrolled exposure. Since there are no other RF sources near this tower site and this is less than 100% of the permitted level, these facilities are fully in compliance with the uncontrolled exposure standard.

The applicant will take appropriate steps to insure that workers that must be on this tower will not be exposed to levels of nonionizing radiation that are in excess of the permitted level for controlled exposure. These steps will include the cessation of operation or a reduction in power, as appropriate, when work becomes necessary in areas on this tower where the power density levels are in excess of the permitted level for controlled exposure.



[View Tabular Results +](#)

Channel Selection	Channel 206 (89.1 MHz) ▼		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▼		
Height (m)	54.9	Distance (m)	500
ERP-H (W)	12000	ERP-V (W)	12000
Num of Elements	4	Element Spacing (λ)	1
Num of Points	500	Apply	