

The map below demonstrates community coverage requirements for the city of license, fulfilling the requirement of 47 CFR §73.515, NCE FM transmitter location.



Environmental Effect

The proposed facility is excluded from environmental processing under 47 CFR §1.1306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

The proposed site is not in an officially designated wilderness area, wildlife preserve, flood plain, or near a site that is either listed or eligible for listing in the National Register of Historic Places. The proposed construction will not adversely affect any listed or proposed threatened or endangered species or their critical habitats, or any sites significant to Native American Religious practice, and will not involve any significant change in surface features. The applicant does not propose to light the antenna support structure with high intensity white lighting.

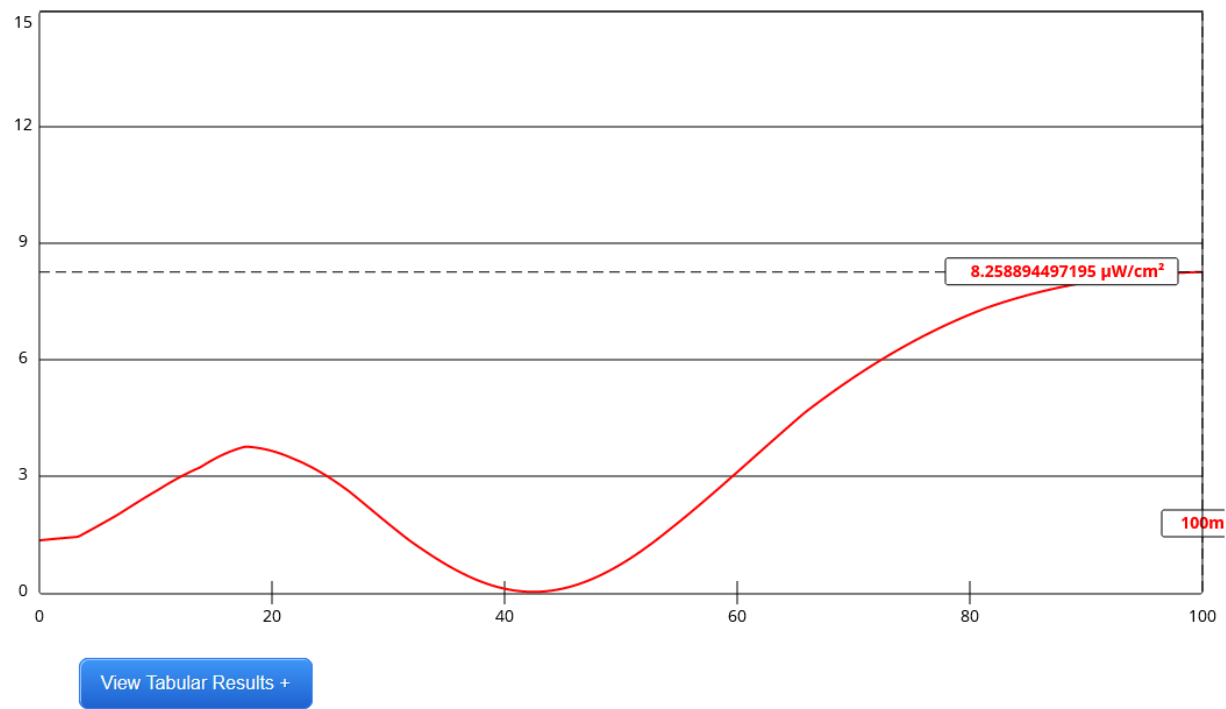
The proposed facility is located on an existing tower, which has fencing with a locked gate preventing public access. The applicant proposes a 3 bay $\frac{1}{2}$ -wave spaced circularly polarized antenna. No other broadcast facilities are located on the tower.

Shown below is the output of the Commission's FM Model program, with a maximum calculated exposure of $8.26 \mu\text{W}/\text{cm}^2$, well below the maximum permissible exposure for the general public, or 0.78% of the limit of $200 \mu\text{W}/\text{cm}^2$.

The applicant is cognizant of its responsibility to protect those workers whose duties require that they be in the vicinity of the antenna from exposure to radio frequency fields in excess of those outlined above. To that end, signage will be attached to the base of the antenna support structure warning all workers of the potential for harmful exposure and directing them to contact the responsible person at the broadcast station. That person will ascertain whether the worker will be in areas where there is an exposure hazard, and if so, arrange to shut down the transmitter(s). The permittee/licensee will also coordinate with other users of the site to reduce power or cease operation in order to protect persons having access to the site, tower or antenna from radiofrequency radiation in excess of Commission guidelines.

For these reasons, the applicant believes that a Commission grant of this application would not have a significant environmental impact.

FM Model for Proposed Facility:



Channel Selection	Channel 213 (90.5 MHz) ▾		
Antenna Type +	EPA Type 4: Two-Piece Spiral ▾		
Height (m)	<input type="text" value="40"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="4000"/>	ERP-V (W)	<input type="text" value="4000"/>
Num of Elements	<input type="text" value="3"/>	Element Spacing (λ)	<input type="text" value=".5"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	

Reasonable Site Assurance

The applicant has site assurance for use of the proposed site. Contact information:

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