

# Victory Baptist Church

Springfield, OH

## Technical Certifications

As shown below (next page), the proposed facility meets the applicable engineering standards and assignment requirements of 47 CFR §73.807(a) through (g), and §73.825

### LPFM Channel Study Victory Baptist Church

REFERENCE		DISPLAY DATES
39 54 10.58 N.	CLASS = L1	DATA 11-07-23
83 50 56.32 W.	Current Spacings to 2nd Adj.	SEARCH 11-07-23
----- Channel 296 - 107.1 MHz -----		

Call	Channel	Location	Azi	Dist	FCC	Margin
W295CI	LIC-D 295D	Urbana	OH 26.9	25.02	20.5	4.5
WWSU	LIC 295D	Fairborn	OH 233.7	22.57	12.5	10.1
WTJN-LP	LIC 296L1	Troy	OH 295.4	40.32	23.5	16.8
WKFS	LIC-N 296B1	Milford	OH 212.8	103.81	86.5	17.3
WJYD	LIC-N 296A	Circleville	OH 107.0	89.49	66.5	23.0
WZAA-LP	LIC 295L1	Jeffersonville	OH 138.4	36.99	13.5	23.5
W297BP	LIC-D 297D	Bellefontaine	OH 10.7	52.57	27.5	25.1
WCWT-FM	LIC 297D	Centerville	OH 219.9	39.92	12.5	27.4
W294CQ	LIC 294D	Wilmington	OH 180.6	51.76	13.5	38.3
WZCB	LIC 294A	Dublin	OH 79.5	71.98	28.5	43.5
WCKX	LIC 298A	Columbus	OH 84.5	73.21	28.5	44.7
WDOH	LIC 296A	Delphos	OH 337.7	111.68	66.5	45.2

Reference station has protected zone issue: Canada  
All separation margins include rounding

The proposed facility's 60dBu service contour is 5.56 km, meeting the requirements of 47CFR §73.811, which specifies that the contour will be between 4.7 and 5.6 km.

## **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).

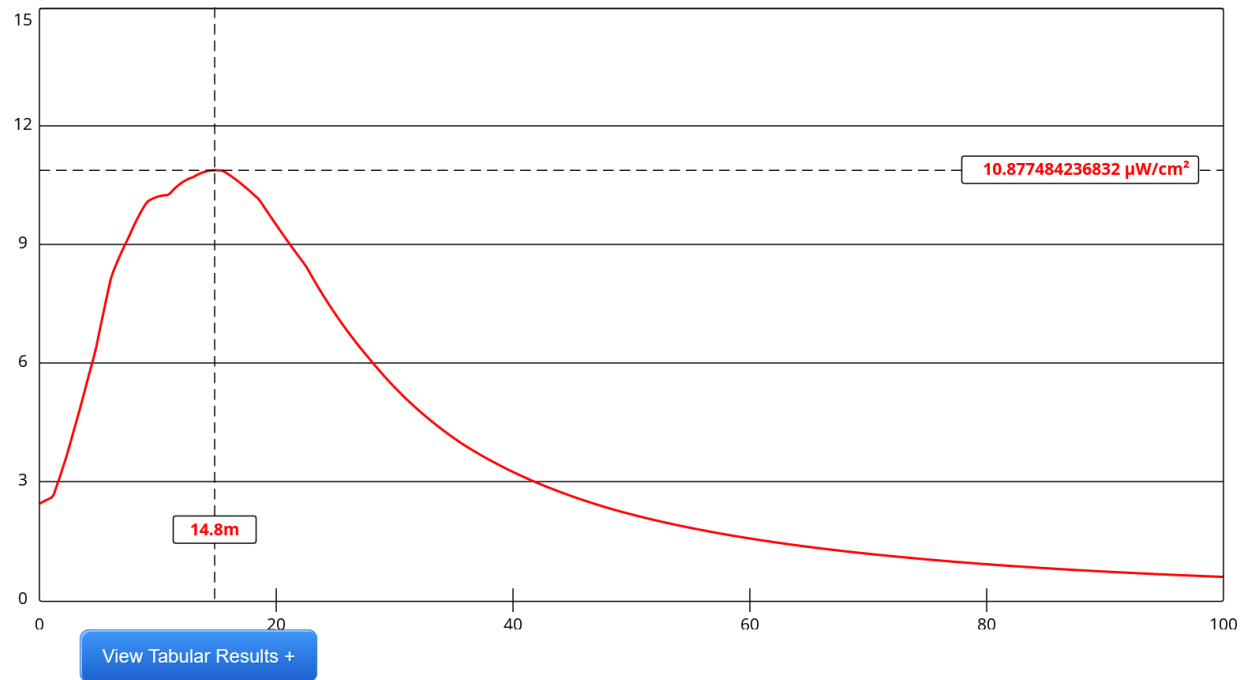
The proposed site is not in an officially designated wilderness area, wildlife preserve, flood plain, or near a site that is either listed or eligible for listing in the National Register of Historic Places. The proposed construction will not adversely affect any listed or proposed threatened or endangered 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 the grounds of Victory Baptist Church, which is owned by the applicant. The applicant proposes a 20m (AGL) tower, utilizing a single bay Shively SLV antenna (EPA Type 4). There is not an elevated area within the building, so the elevation above population remains the standard 2 meters utilized by FM Model.

Shown below is the output of the Commission's FM Model program, with a maximum calculated exposure of  $10.88 \mu\text{W}/\text{cm}^2$ , well below the maximum permissible exposure for the general public, or 5.44% 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, if any, 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.



Channel Selection	Channel 296 (107.1 MHz) ▾		
Antenna Type +	EPA Type 4: Two-Piece Spiral ▾		
Height (m)	15	Distance (m)	100
ERP-H (W)	95	ERP-V (W)	95
Num of Elements	1	λ	1
Num of Points	500	Apply	