

# Faith Baptist Church

Wabash, IN

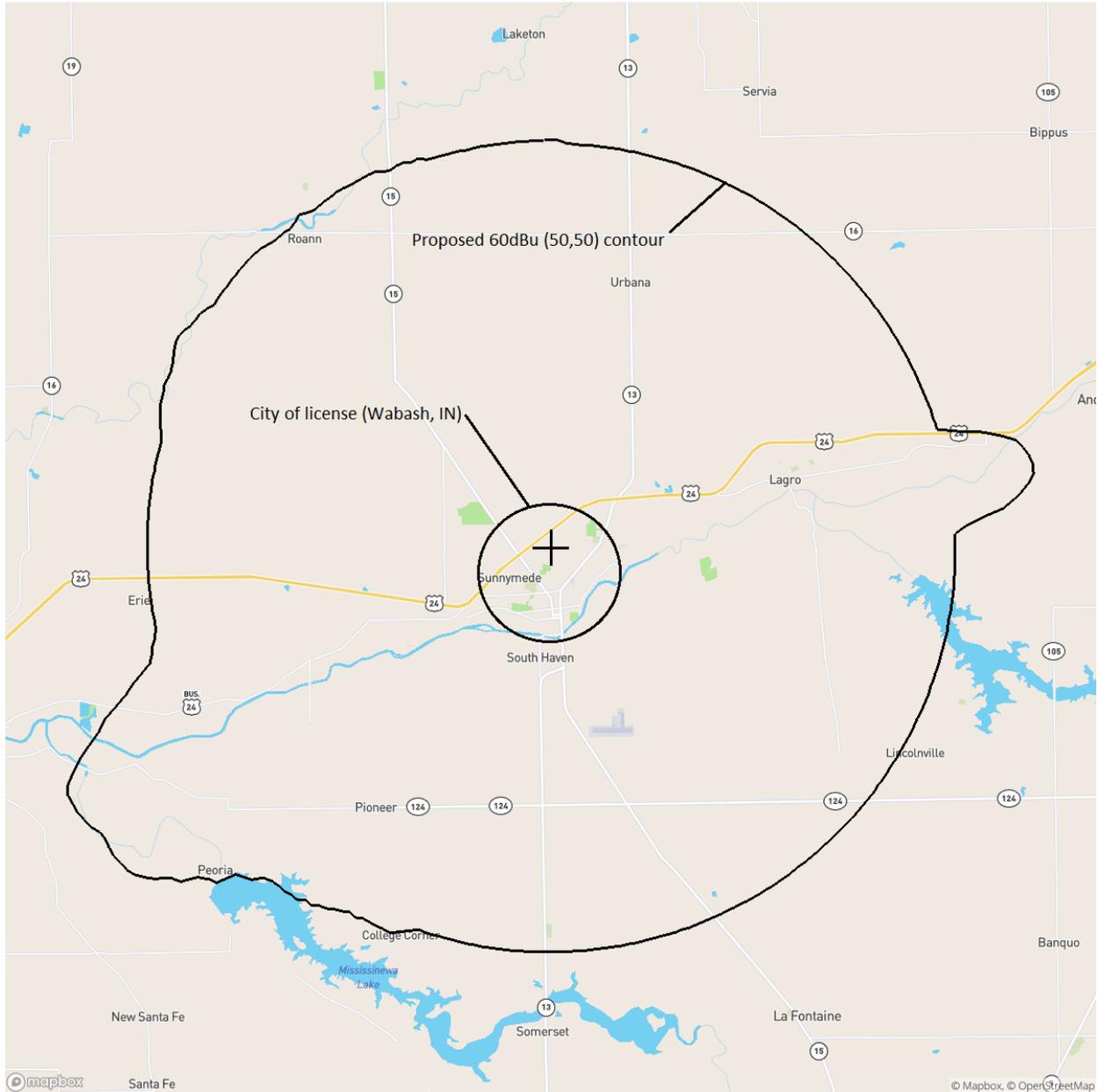
## Technical Certifications

As shown below, the proposed facility meets the applicable engineering standards and assignment requirements of 47 CFR §73.203, §73.207, §73.213, §73.215, §73.509, and §73.515.

Faith Baptist Church New FM Station											
REFERENCE	CH#	208A - 89.5 MHz, Pwr= 3.5 kw, HAAT= 24.3 M, COR= 256 M								DISPLAY DATES	
40 49 01.51 N.		Average Protected F(50-50)= 13.72 km								DATA	11-01-21
85 49 29.85 W.		Omni-directional								SEARCH	11-05-21
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*
CITY	STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)	
208D	W208BY	LIC_CN		78.6	1.93	40 49 13.90	0.055	19.8	5.9	-33.8*	-66.6*
Wabash	IN		258.6	0000123480	85 48 08.90		271	Pensacola Christian Colleg			
208A	WBSB	LIC_VN		169.7	72.28	40 10 38.10	0.400	52.2	15.6	6.3	0.3
Anderson	IN		349.8	BLED19970324KB	85 40 22.90	111	375	Ball State University			
206B	WBOI	LIC DCN		59.4	62.91	41 06 13.10	34.000	5.9	51.4	42.3	9.7
Fort Wayne	IN		239.8	BLED19940406KA	85 10 43.80	184	429	Northeast Indiana Public R			
208B1	WBCY	LIC DCN		59.7	148.83	41 28 59.20	20.000	109.2	38.0	24.7	54.5
Archbold	OH		240.7	BLED20051205AAM	84 16 57.80	96	317	Taylor University Broadcas			
209A	WBCW	LIC_CN		147.6	52.59	40 25 02.10	0.150	10.2	6.8	28.9	24.9
Upland	IN		327.8	BMLED20080822AAG	85 29 30.90	34	300	Taylor University Broadcas			
208D	W208BF	LIC_CN		351.7	93.03	41 38 42.20	0.009	18.7	5.7	60.7	30.9
Elkhart	IN		171.6	BLFT20060703ACU	85 59 10.00	113	351	Olivet Nazarene University			
207A	WIKV	LIC_CN		324.0	73.07	41 20 51.20	1.400	24.3	16.4	34.7	35.4
Plymouth	IN		143.6	BMLED20140610AAC	86 20 23.00	76	317	Educational Media Foundati			
208B1	WBEW	LIC DCN		312.0	136.96	41 38 06.10	4.000	81.4	27.5	41.8	51.1
Chesterton	IN		131.2	BLED20081027AAD	87 02 59.10	182	380	Chicago Public Media Inc			
208B1	WOFR	LIC DCN		6.3	144.70	42 06 38.10	10.000	86.7	24.1	44.3	64.2
Schoolcraft	MI		186.4	BMLED20130530AMJ	85 37 56.90	42	305	Family Stations, Inc.			
209D	W209AW	LIC_VN		66.5	71.88	41 04 21.20	0.080	9.8	6.9	46.5	44.6
Fort Wayne	IN		247.0	BLFT20021217AAZ	85 02 18.90	46	284	Pensacola Christian Colleg			
261A	WFCV-FM<<	LIC_CN		83.7	55.35	40 52 10.20	6.000	0.0	0.0	9.5R	45.9M
Bluffton	IN		264.2	BLH20060202AJB	85 10 19.90	91	337	Bott Communications, Inc.			
210A	WYBV	LIC_CN		0.1	71.91	41 27 50.20	1.750	1.9	21.4	56.3	48.8
Wakarusa	IN		180.1	BLED20060531AIM	85 49 22.00	100	357	Bible Broadcasting Network			
06---	WDMY-LP<<	APP_CN		55.1	182.80	41 44 40.99	1.500	9.1	14.5	23.7R	159.2M
Toledo	OH		236.3	0000163484	84 01 06.00		300				
06---	WDMY-LD/W<<	CP_CN		55.1	182.80	41 44 40.99	1.500	9.1	14.5	23.7R	159.2M
Toledo	OH		236.3	0000156074	84 01 06.00		300				
06 --	WRME-LD<<	LI DCN		309.3	192.30	41 53 56.11	3.000	9.4	11.6	21.0R	171.4M
Chicago	IL		128.1	0000153585	87 37 23.19		566				
06---	WRME-LD<<	LI D_N		309.3	192.30	41 53 56.11	3.000	9.3	11.6	20.8R	171.5M
Chicago	IL		128.1	BLTVL-20100111AIE	87 37 23.19		566				

Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM  
 In & Out distances between contours are shown at closest points. Reference zone= - Zone 1, Co to 3rd adjacent.  
 All separation margins (if shown) include rounding. Call signs with strikeout need not be protected.  
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
 "\*" affixed to 'IN' or 'OUT' values = site inside restricted contour.  
 < = Station meets FCC minimum distance spacing for its class.  
 Reference station has protected zone issue: Canada

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).

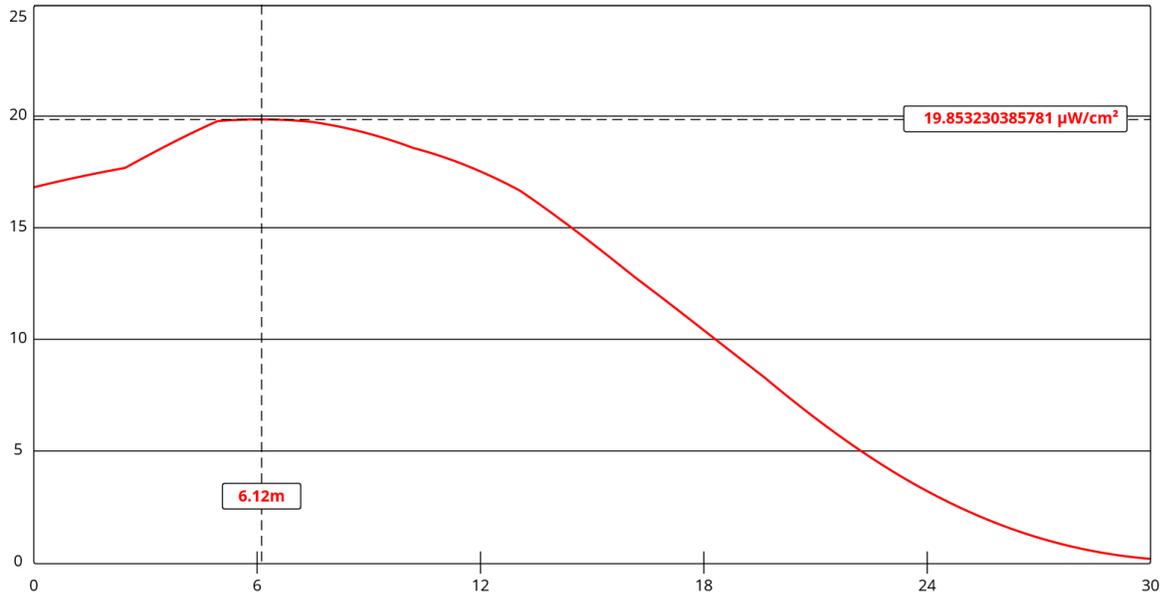
The proposed site is not in an officially designated wilderness area, wildlife preserve, flood plain, or near a site that is either listed or eligible for listing in the National Register of Historic Places. The proposed construction will not adversely affect any listed or proposed threatened or endangered 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 the grounds of Faith Baptist Church, which is owned by the applicant. The applicant proposes a 33m self-supporting tower with a 3-bay half-wave spaced circularly polarized antenna mounted at 30m on the tower. There are no other emitters planned on the tower.

Shown below is the output of the Commission's FM Model program, with a maximum calculated exposure of  $19.81 \mu\text{W}/\text{cm}^2$ , well below the maximum permissible exposure for the general public, or 9.91% 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.



[View Tabular Results +](#)

Channel Selection	Channel 208 (89.5 MHz) ▾		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▾		
Height (m)	<input type="text" value="30"/>	Distance (m)	<input type="text" value="30"/>
ERP-H (W)	<input type="text" value="3500"/>	ERP-V (W)	<input type="text" value="3500"/>
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"/>	<input type="button" value="Apply"/>	