

# Liberty Baptist Church

Rochester, IN

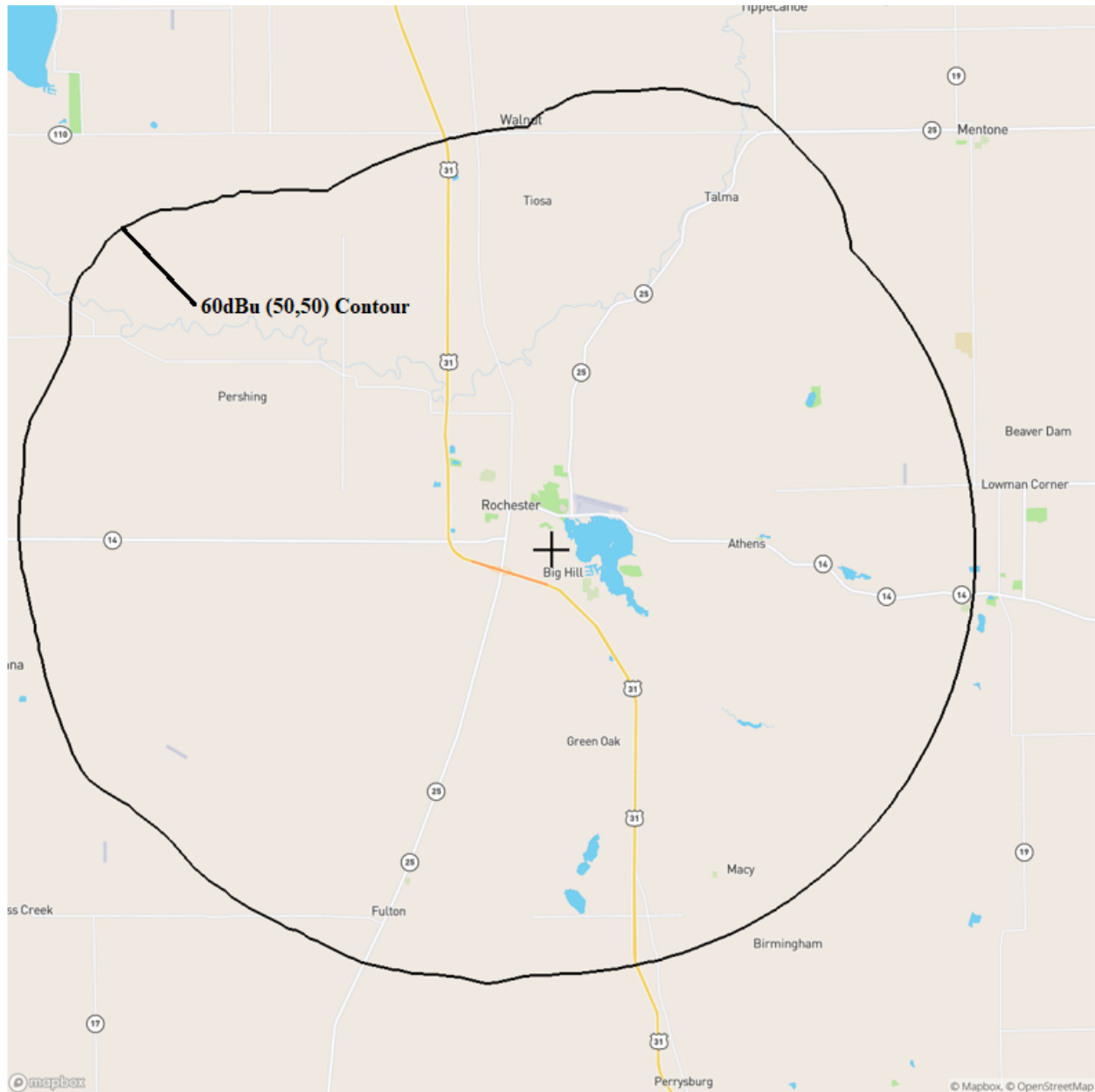
## Technical Certifications

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.

| Liberty Baptist Church of Rochester, IN                      |          |         |     |       |                   |             |         |           |                                 |                 |
|--|----------|---------|-----|-------|-------------------|-------------|---------|-----------|---------------------------------|-----------------|
| New FM NCE Station   |          |         |     |       |                   |             |         |           |                                 |                 |
| CH# 217A - 91.3 MHz, Pwr= 3.4 kw, HAAT= 33.1 M, COR= 276.8 M |          |         |     |       |                   |             |         |           |                                 |                 |
| Average Protected F(50-50)= 14.22 km                         |          |         |     |       |                   |             |         |           |                                 |                 |
| Omni-directional   |          |         |     |       |                   |             |         |           |                                 |                 |
| DISPLAY DATES  |          |         |     |       |                   |             |         |           |                                 |                 |
| DATA 11-04-21  |          |         |     |       |                   |             |         |           |                                 |                 |
| SEARCH 11-06-21  |          |         |     |       |                   |             |         |           |                                 |                 |
| CH   | CALL     | TYPE    | ANT | AZI   | DIST              | LAT         | PWR(kw) | INT(km)   | PRO(km)                         | *IN*            |
| CITY   |          | STATE   |     | <--   | FILE #            | LNG         | HAAT(M) | COR(M)    | LICENSEE                        | (Overlap in km) |
| 217D   | W217BZ   | LIC_VN  |     | 52.5  | 33.85             | 41 14 12.20 | 0.055   | 22.5      | 6.5                             | -2.9            |
| Warsaw   |          | IN      |     | 232.7 | BLFT20120718ACH   | 85 52 45.00 | 52      | 309       | Pensacola Christian Colleg      | -29.3*          |
| 217A   | WJCO     | CP_DCN  |     | 125.6 | 94.12             | 40 33 21.30 | 6.000   | 80.4      | 23.5                            | 0.1             |
| Montpelier   |          | IN      |     | 306.1 | 0000143997        | 85 17 37.50 | 60      | 318       | Calvary Radio Network, Inc      | 14.8            |
| 216A   | WGCS     | LIC_DCN |     | 27.2  | 63.38             | 41 33 29.20 | 6.000   | 40.9      | 26.5                            | 6.5             |
| Goshen   |          | IN      |     | 207.5 | BLLED19980313KA   | 85 51 06.00 | 89      | 342       | Goshen College Broadcastin      | 13.1            |
| 218A   | WJHS     | CP_CN   |     | 79.1  | 60.13             | 41 09 06.70 | 3.500   | 28.1      | 19.1                            | 18.4            |
| Columbia City  |          | IN      |     | 259.6 | 0000123148        | 85 29 41.60 | 52      | 317       | Columbia City High School       | 20.3            |
| 218A   | WJHS     | LIC_CN  |     | 77.5  | 60.50             | 41 10 04.10 | 2.650   | 28.4      | 19.1                            | 18.8            |
| Columbia City  |          | IN      |     | 257.9 | BLLED19850815KF   | 85 29 40.90 | 67      | 333       | Columbia City High School       | 20.5            |
| 217B   | WJCZ     | CP_DCN  |     | 251.3 | 157.11            | 40 35 07.00 | 50.000  | 116.5     | 28.3                            | 23.5            |
| Milford  |          | IL      |     | 70.2  | 0000143994        | 87 57 47.00 | 27      | 234       | Calvary Radio Network, Inc      | 63.9            |
| 215D   | W215BB   | LIC_VN  |     | 60.2  | 39.58             | 41 13 40.20 | 0.102   | 0.7       | 6.0                             | 25.2            |
| Warsaw Winona Lake   |          | IN      |     | 240.5 | BLFT20000301ACA   | 85 47 22.00 | 26      | 289       | Star Educational Media Net      | 31.9            |
| 270A   | WARU-FM« | LIC_ZCN |     | 140.5 | 35.05             | 40 48 30.20 | 3.600   | 454497400 | 16489790000000000000000000000.0 | 9.5R            |
| Roann  |          | IN      |     | 320.6 | BLH20010227AAR    | 85 56 07.00 | 129     | 354       | Dream Weaver Marketing, LL      | 25.6M           |
| 217A   | WJCO     | LIC_VN  |     | 125.6 | 94.10             | 40 33 21.20 | 0.350   | 40.0      | 11.6                            | 40.5            |
| Montpelier   |          | IN      |     | 306.2 | BLLED20050112ADP  | 85 17 38.90 | 60      | 319       | Calvary Radio Network, Inc      | 26.7            |
| 219A   | WIWC     | LIC_CN  |     | 189.7 | 50.94             | 40 36 00.10 | 2.100   | 2.0       | 22.3                            | 34.7            |
| Kokomo   |          | IN      |     | 9.7   | BMLED20030404ABG  | 86 18 08.00 | 91      | 319       | The Moody Bible Institute       | 27.0            |
| 217B1  | WJCZ     | LIC_DCN |     | 251.3 | 157.11            | 40 35 07.10 | 25.000  | 101.0     | 24.3                            | 39.0            |
| Milford  |          | IL      |     | 70.2  | BLLED20050127AFE  | 87 57 47.10 | 27      | 234       | Calvary Radio Network, Inc      | 68.0            |
| 214B1  | WQSG     | LIC_DVN |     | 199.1 | 80.07             | 40 22 14.10 | 17.000  | 3.9       | 38.3                            | 61.5            |
| Lafayette  |          | IN      |     | 18.9  | BLLED20051122ABJ  | 86 30 32.00 | 100     | 347       | American Family Associatio      | 40.1            |
| 215A   | WBSW     | LIC_EN  |     | 131.6 | 64.22             | 40 40 01.20 | 2.400   | 2.1       | 21.9                            | 48.6            |
| Marion   |          | IN      |     | 311.9 | BLLED19970908KE   | 85 37 49.90 | 94      | 344       | Ball State University           | 40.5            |
| 219A   | WETL     | LIC_CN  |     | 357.2 | 63.62             | 41 37 24.10 | 3.000   | 2.1       | 21.4                            | 46.7            |
| South Bend   |          | IN      |     | 177.2 | BLLED19830926AG   | 86 14 15.00 | 91      | 331       | South Bend Community Schoo      | 40.6            |
| 216A   | WCYT     | CP_DCN  |     | 94.3  | 76.16             | 40 59 47.10 | 1.500   | 15.4      | 10.8                            | 47.1            |
| Lafayette Township   |          | IN      |     | 274.9 | BPED20180313AAH   | 85 17 42.90 | 85      | 332       | Southwest Allen County Sch      | 42.8            |
| 220A   | WVSH     | LIC_HN  |     | 106.8 | 60.55             | 40 53 32.10 | 0.920   | 1.6       | 10.0                            | 45.3            |
| Huntington   |          | IN      |     | 287.3 | BLLED774          | 85 30 37.90 | 34      | 279       | Huntington County Communit      | 48.4            |
| 214B   | WAUS     | LIC_CN  |     | 353.0 | 101.93            | 41 57 42.10 | 50.000  | 5.8       | 51.2                            | 81.5            |
| Berrien Springs  |          | MI      |     | 172.9 | BLLED19920424KA   | 86 21 02.00 | 150     | 366       | Andrews Broadcasting Corp.      | 48.3            |
| 216A   | WCYT     | LIC_DCN |     | 95.5  | 77.60             | 40 58 51.10 | 0.125   | 11.9      | 8.1                             | 52.3            |
| Lafayette Township   |          | IN      |     | 276.1 | BLLED19940630KA   | 85 16 47.90 | 69      | 311       | Southwest Allen County Sch      | 48.5            |
| 217A   | WNDY     | LIC_VN  |     | 209.4 | 126.87            | 40 03 19.10 | 2.200   | 62.4      | 17.7                            | 49.5            |
| Crawfordsville   |          | IN      |     | 28.9  | BLLED19970212KA   | 86 55 57.00 | 59      | 299       | Wabash College Radio, Inc.      | 49.8            |
| 06---  | WRME-LD« | LI_D_N  |     | 308.9 | 151.38            | 41 53 56.11 | 3.000   | 7.2       | 11.6                            | 18.8R           |
| Chicago  |          | IL      |     | 128.0 | BLTVL-20100111AIE | 87 37 23.19 | 566     |           |                                 | 132.6M          |
| 06 --  | WRME-LD« | LI_DCN  |     | 308.9 | 151.38            | 41 53 56.11 | 3.000   | 6.7       | 11.6                            | 18.3R           |
| Chicago  |          | IL      |     | 128.0 | 0000153585        | 87 37 23.19 | 566     |           |                                 | 133.1M          |

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).

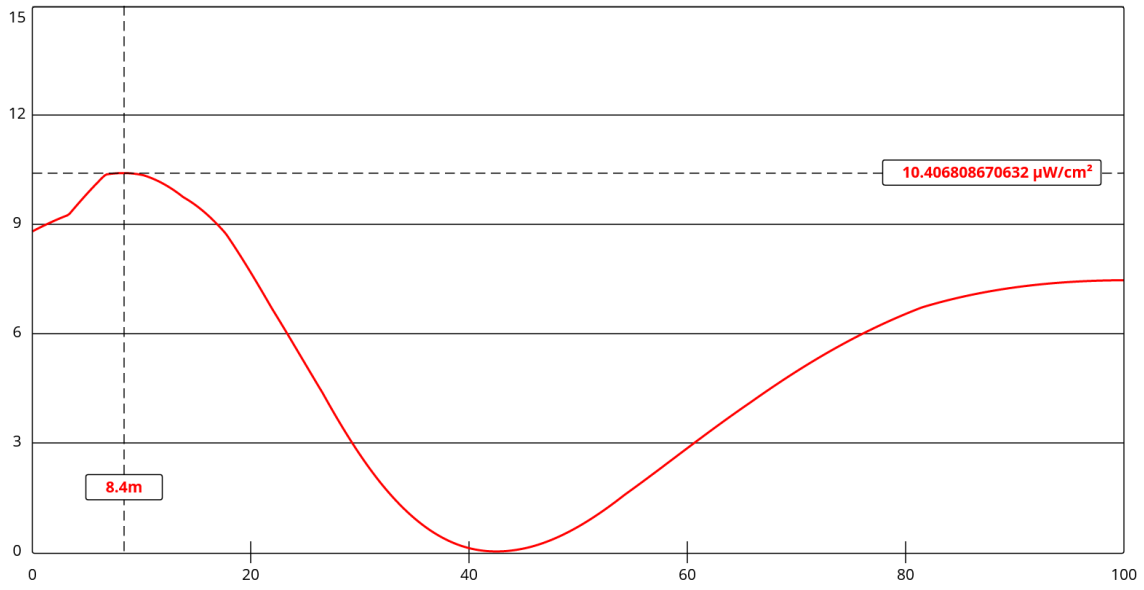
The proposed site is not in an officially designated wilderness area, wildlife preserve, flood plain, or near a site that is either listed or eligible for listing in the National Register of Historic Places. The proposed construction will not adversely affect any listed or proposed threatened or endangered 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 Liberty Baptist Church, which is owned by the applicant. The applicant proposes a 43m self-supporting tower with a 3-bay  $\frac{1}{2}$ -wave circularly polarized antenna mounted at 40m 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  $10.41 \mu\text{W}/\text{cm}^2$ , well below the maximum permissible exposure for the general public, or 5.21% 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 217 (91.3 MHz) ▾               |                                      |                                   |
| Antenna Type +    | EPA Type 1: Ring-and-Stub or "Other" ▾ |                                      |                                   |
| Height (m)        | <input type="text" value="40"/>        | Distance (m)                         | <input type="text" value="100"/>  |
| ERP-H (W)         | <input type="text" value="3400"/>      | ERP-V (W)                            | <input type="text" value="3400"/> |
| 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"/> |                                   |