

**Faith Radio Network, Inc.**

**Long Form Application**

**Facility ID # 144738**

**June - 2018**

**Technical Statement**

EME Communications has been retained Southern Faith Radio Network Inc. to prepare this long form 349 following a successful auction.

**Proposed Site:**

Tower ID: 1210889

Distance: 0.00 km Bearing: 109.5 degrees

Coordinates (NAD27): 30-30-33.98 N, 084-20-06.95 W

Status: onstructed

Action Date: 04/11/2001

Construction Date: 12/10/2000

Location: Highway 27 at Lake Forest, Tallahassee, FL

Height (AG): 74.40 m, Elevation: 54.80 m, Structure Height: 73.40 m

Circular Number: 70/7460-1J

FAA Number: 99-ASO-4872-OE FAA Chapter: 3, 4, 5, 13

**Interference Showing:**

The attached interference study employs the FCC 30 sec terrain database. It is requested the Commission's staff use the same terrain data when evaluating this application.

Attached as exhibit 1 is a comprehensive showing the clearly show the proposal will not cause interference to any facility present or proposed. The proposed is short to 2nd adjacent stations WGMY and WQTL, Tallahassee, Florida. Attached is a showing that shows no interfering signal will reach ground level. A waiver of 47 CFR 74.1204(d) is requested.

**Antenna System:**

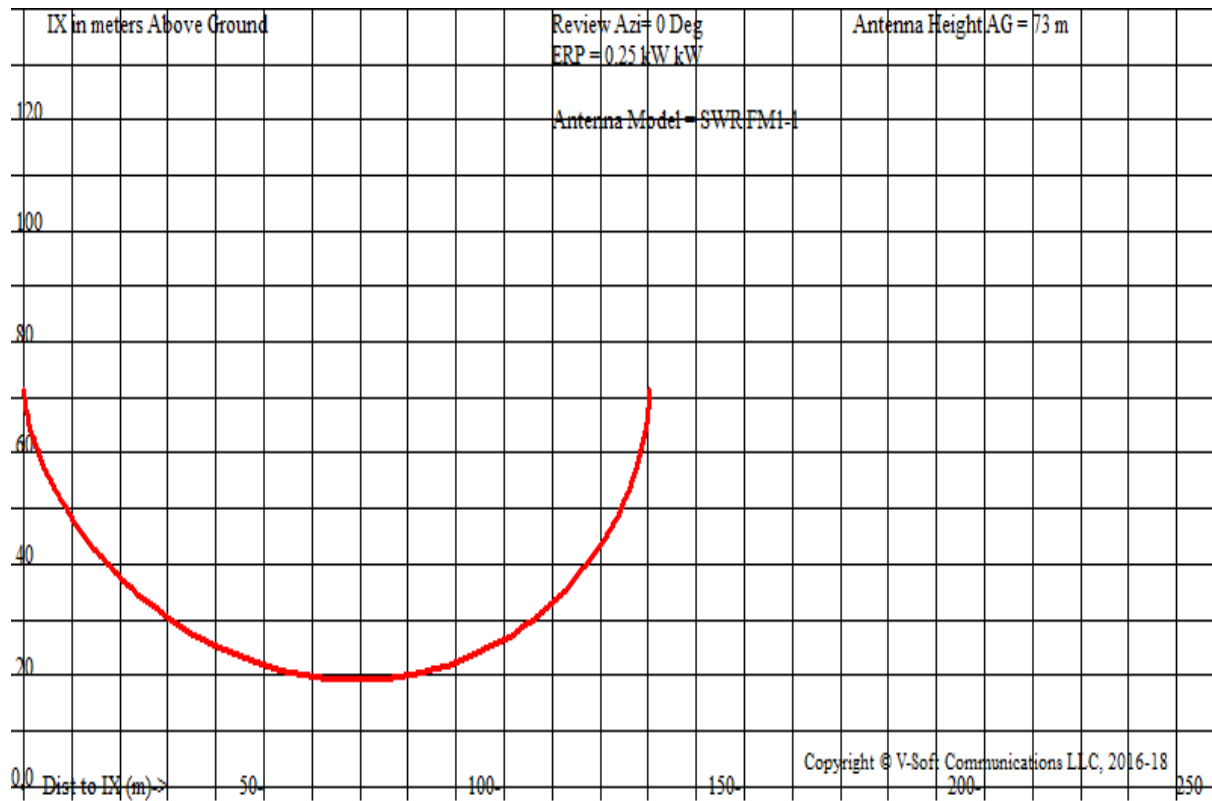
Applicant proposes to employ its present antenna system consisting of a single bay SWR FM-1-1 antenna.

The applicant proposes to re-broadcasting the programming of AM station WFRF and. Attached as Exhibit-2 is a plot showing the proposed will not extend the 2.0 mV/m contour of WFRF (AM) or the 25-mile limit.

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| EXHIBIT - 1               |         |  |     |       |                  |            |         |         |                            |                 |        |
|---------------------------|---------|--|-----|-------|------------------|------------|---------|---------|----------------------------|-----------------|--------|
| Faith Radio Network, Inc. |         |  |     |       |                  |            |         |         |                            |                 |        |
| REFERENCE                 |         | CH# 294D - 106.7 MHz, Pwr= 0.25 kW, HAAT= 93.0 M, COR= 128 M |     |       |                  |            |         |         |                            | DISPLAY DATES   |        |
| 30 30 34.0 N.             |         | Average Protected F(50-50)= 12.42 km                         |     |       |                  |            |         |         |                            | DATA 06-03-18   |        |
| 84 20 07.0 W.             |         | Omni-directional   |     |       |                  |            |         |         |                            | SEARCH 06-03-18 |        |
| 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) |        |
| 296C1                     | WGMY    | LIC NCX  |     | 47.8  | 12.78            | 30 35 12.0 | 100.000 | 9.2     | 68.1                       | -8.2            | -56.5* |
| Thomasville               | GA      |  |     | 227.8 | BMLH20110408ABL  | 84 14 11.0 | 251     | 290     | Cc Licenses, Llc, As Debto |                 |        |
| 294D                      | 1762753 | APP _C_  |     | 0.0   | 0.00             | 30 30 34.0 | 0.250   |         | ---Reference---            |                 |        |
| Tallahassee               | FL      |  |     | 0.0   | BNPFT20170727ABB | 84 20 07.0 |         | 128     | Faith Radio Network, Inc.  |                 |        |
| 294C1                     | WKMX    | LIC NCX  |     | 306.7 | 148.12           | 31 18 02.0 | 100.000 | 163.9   | 65.4                       | -27.6*          | 41.9   |
| Enterprise                | AL      |  |     | 126.1 | BLH20161107AAP   | 85 35 05.0 | 214     | 293     | Gulf South Communications, |                 |        |
| 291A                      | WQTL    | LIC ZCX  |     | 99.8  | 9.91             | 30 29 39.0 | 2.250   | 2.5     | 28.8                       | -4.6*           | -20.0* |
| Tallahassee               | FL      |  |     | 279.9 | BLH20110428AAZ   | 84 14 00.0 | 165     | 202     | Adams Radio Of Tallahassee |                 |        |
| 291A                      | WQTL    | LIC ZCN  |     | 99.8  | 9.91             | 30 29 39.0 | 2.250   | 2.4     | 27.9                       | -4.5*           | -19.1* |
| Tallahassee               | FL      |  |     | 279.9 | BLH20180202AAP   | 84 14 00.0 | 154     | 190     | Adams Radio Of Tallahassee |                 |        |
| 293C1                     | WOCY    | LIC _CX  |     | 211.8 | 101.52           | 29 43 57.0 | 100.000 | 87.7    | 58.1                       | 0.9             | 24.0   |
| Carrabelle                | FL      |  |     | 31.6  | BLH20021107AAP   | 84 53 24.0 | 147     | 147     | Live Communications, Inc.  |                 |        |
| 294C1                     | WOKA-FM | LIC _CX  |     | 47.0  | 191.06           | 31 40 21.0 | 100.000 | 171.2   | 71.8                       | 7.6             | 78.9   |
| Douglas                   | GA      |  |     | 227.8 | BLH20020314AAN   | 82 51 28.0 | 299     | 377     | Coffee County Broadcasters |                 |        |
| 241C2                     | WHBX    | LIC NCX  |     | 167.8 | 27.61            | 30 15 57.6 | 37.000  | 16.6    | 4.1                        | 15.0R           | 12.6M  |
| Tallahassee               | FL      |  |     | 347.9 | BLH20150505AAO   | 84 16 28.5 | 143     | 151     | Cumulus Licensing Llc      |                 |        |
| 292A                      | WTUF    | LIC _CN  |     | 59.0  | 61.70            | 30 47 40.0 | 6.000   | 2.8     | 28.6                       | 47.2            | 31.7   |
| Boston                    | GA      |  |     | 239.2 | BLH19970703KB    | 83 46 54.0 | 100     | 149     | Boston Radio Company, Inc. |                 |        |
| 292A                      | WGMK    | LIC _CN  |     | 320.5 | 81.49            | 31 04 26.0 | 5.900   | 2.8     | 28.9                       | 66.9            | 51.4   |
| Donalsonville             | GA      |  |     | 140.2 | BLH19970703KC    | 84 52 47.0 | 101     | 151     | Flint Media, Inc.          |                 |        |
| 295C1                     | WPLL    | LIC NCX  |     | 124.6 | 174.54           | 29 36 31.1 | 100.000 | 87.9    | 58.3                       | 74.2            | 98.5   |
| Cross City                | FL      |  |     | 305.4 | BMLH20180306AAI  | 82 50 58.7 | 143     | 155     | Marc Radio Gainesville, L  |                 |        |
| 295D                      | W295AO  | LIC _C_  |     | 69.7  | 105.47           | 30 50 05.0 | 0.250   | 15.8    | 11.1                       | 77.4            | 76.9   |
| Valdosta                  | GA      |  |     | 250.2 | BLFT20090902AAV  | 83 17 57.0 | 69      | 124     | Southern Communications, L |                 |        |
| 291D                      | W291AD  | LIC _CN  |     | 289.7 | 91.93            | 30 47 07.0 | 0.040   | 0.4     | 7.6                        | 79.4            | 83.2   |
| Marianna                  | FL      |  |     | 109.3 | BLFT19940711TC   | 85 14 29.0 | 90      | 124     | Florida State University   |                 |        |

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Terrain database is FCC 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= East Zone, Co to 3rd adjacent.  
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: AM tower

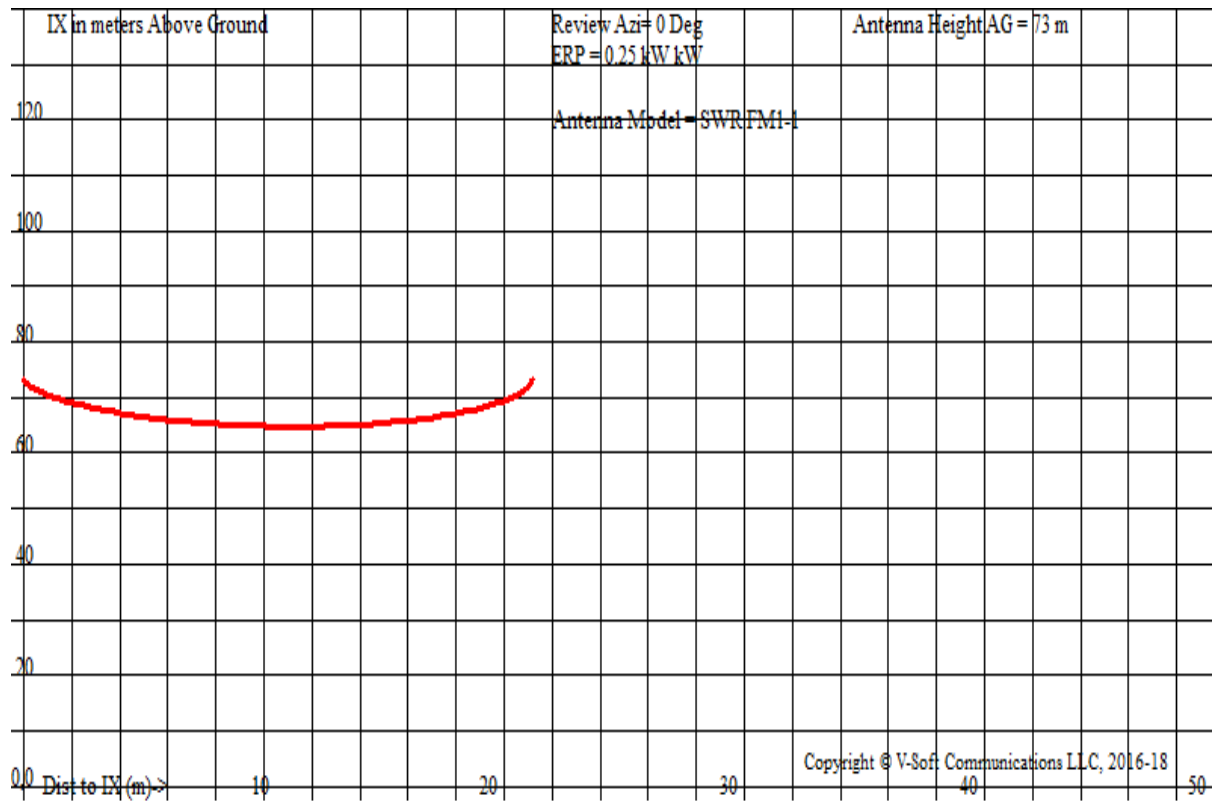


1762753 , , Showing Protection to WQTL  
 Geographic Coordinates: N.30 30 34.00 W.84 20 07.00  
 74.1204(d) Study - Using FCC 30 SEC Terrain Database  
 Translator or LPFM Maximum Licensed ERP = 0.25  
 Translator or LPFM Antenna Height AG = 73 Meters  
 1762753 Antenna Model = SWR FM1-1

Protected Station's Contour = 78.42677 dBu  
 Translator's or LPFM's full Interference contour 118.42677

Review Azimuth = 0 Degrees True  
 Relative Field on the horizon at Review Azimuth = 1.000  
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW  
 Distance between stations = 9.9 km  
 Protected Station= WQTL, 2.25 kW, 190.2 M Meters COR AMSL

| Depression<br>Angle From<br>Horizon(Deg) | Vertical<br>Relative<br>Field | Horizontal<br>Relative<br>Field | ERP (kw) | Dist to IX<br>Contour Along<br>Dep. Angle(m) | Dist to IX<br>Contour From<br>Tower Base(m) | Height IX<br>Above<br>Ground (m) |
|--|-------------------------------|---------------------------------|----------|--|---|----------------------------------|
| 00.0                                     | 1.0                           | 1.0                             | 0.2500   | 132.9326                                     | 132.9326                                    | 073.000                          |
| 05.0                                     | 0.993                         | 1.0                             | 0.2465   | 132.0021                                     | 131.4998                                    | 061.495                          |
| 10.0                                     | 0.974                         | 1.0                             | 0.2372   | 129.4764                                     | 127.5093                                    | 050.517                          |
| 15.0                                     | 0.941                         | 1.0                             | 0.2214   | 125.0896                                     | 120.8273                                    | 040.624                          |
| 20.0                                     | 0.897                         | 1.0                             | 0.2012   | 119.2405                                     | 112.0495                                    | 032.217                          |
| 25.0                                     | 0.843                         | 1.0                             | 0.1777   | 112.0622                                     | 101.5628                                    | 025.640                          |
| 30.0                                     | 0.780                         | 1.0                             | 0.1521   | 103.6874                                     | 089.7959                                    | 021.156                          |
| 35.0                                     | 0.709                         | 1.0                             | 0.1257   | 094.2492                                     | 077.2044                                    | 018.941                          |
| 40.0                                     | 0.633                         | 1.0                             | 0.1002   | 084.1463                                     | 064.4598                                    | 018.912                          |
| 45.0                                     | 0.554                         | 1.0                             | 0.0767   | 073.6447                                     | 052.0746                                    | 020.925                          |
| 50.0                                     | 0.473                         | 1.0                             | 0.0559   | 062.8771                                     | 040.4166                                    | 024.833                          |
| 55.0                                     | 0.394                         | 1.0                             | 0.0388   | 052.3754                                     | 030.0413                                    | 030.097                          |
| 60.0                                     | 0.317                         | 1.0                             | 0.0251   | 042.1396                                     | 021.0698                                    | 036.506                          |
| 65.0                                     | 0.245                         | 1.0                             | 0.0150   | 032.5685                                     | 013.7640                                    | 043.483                          |
| 70.0                                     | 0.181                         | 1.0                             | 0.0082   | 024.0608                                     | 008.2293                                    | 050.390                          |
| 75.0                                     | 0.124                         | 1.0                             | 0.0038   | 016.4836                                     | 004.2663                                    | 057.078                          |
| 80.0                                     | 0.077                         | 1.0                             | 0.0015   | 010.2358                                     | 001.7774                                    | 062.920                          |
| 85.0                                     | 0.041                         | 1.0                             | 0.0004   | 005.4502                                     | 000.4750                                    | 067.571                          |
| 90.0                                     | 0.016                         | 1.0                             | 0.0001   | 002.1269                                     | 000.0000                                    | 070.873                          |



1762753 , , Showing Protection to WGMY  
 Geographic Coordinates: N.30 30 34.00 W.84 20 07.00  
 74.1204(d) Study - Using FCC 30 SEC Terrain Database  
 Translator or LPFM Maximum Licensed ERP = 0.25  
 Translator or LPFM Antenna Height AG = 73 Meters  
 1762753 Antenna Model = SWR FM1-1

Protected Station's Contour = 94.19749 dBu  
 Translator's or LPFM's full Interference contour 134.19749

Review Azimuth = 0 Degrees True  
 Relative Field on the horizon at Review Azimuth = 1.000  
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW  
 Distance between stations = 12.8 km  
 Protected Station= WGMY, 100 kW, 290 M Meters COR AMSL

| Depression<br>Angle From<br>Horizon(Deg) | Vertical<br>Relative<br>Field | Horizontal<br>Relative<br>Field | ERP (kw) | Dist to IX<br>Contour Along<br>Dep. Angle(m) | Dist to IX<br>Contour From<br>Tower Base(m) | Height IX<br>Above<br>Ground (m) |
|--|-------------------------------|---------------------------------|----------|--|---|----------------------------------|
| 00.0                                     | 1.0                           | 1.0                             | 0.2500   | 021.6319                                     | 021.6319                                    | 073.000                          |
| 05.0                                     | 0.993                         | 1.0                             | 0.2465   | 021.4805                                     | 021.3988                                    | 071.128                          |
| 10.0                                     | 0.974                         | 1.0                             | 0.2372   | 021.0695                                     | 020.7494                                    | 069.341                          |
| 15.0                                     | 0.941                         | 1.0                             | 0.2214   | 020.3557                                     | 019.6621                                    | 067.732                          |
| 20.0                                     | 0.897                         | 1.0                             | 0.2012   | 019.4039                                     | 018.2337                                    | 066.363                          |
| 25.0                                     | 0.843                         | 1.0                             | 0.1777   | 018.2357                                     | 016.5272                                    | 065.293                          |
| 30.0                                     | 0.780                         | 1.0                             | 0.1521   | 016.8729                                     | 014.6124                                    | 064.564                          |
| 35.0                                     | 0.709                         | 1.0                             | 0.1257   | 015.3370                                     | 012.5634                                    | 064.203                          |
| 40.0                                     | 0.633                         | 1.0                             | 0.1002   | 013.6930                                     | 010.4895                                    | 064.198                          |
| 45.0                                     | 0.554                         | 1.0                             | 0.0767   | 011.9841                                     | 008.4740                                    | 064.526                          |
| 50.0                                     | 0.473                         | 1.0                             | 0.0559   | 010.2319                                     | 006.5769                                    | 065.162                          |
| 55.0                                     | 0.394                         | 1.0                             | 0.0388   | 008.5230                                     | 004.8886                                    | 066.018                          |
| 60.0                                     | 0.317                         | 1.0                             | 0.0251   | 006.8573                                     | 003.4287                                    | 067.061                          |
| 65.0                                     | 0.245                         | 1.0                             | 0.0150   | 005.2998                                     | 002.2398                                    | 068.197                          |
| 70.0                                     | 0.181                         | 1.0                             | 0.0082   | 003.9154                                     | 001.3391                                    | 069.321                          |
| 75.0                                     | 0.124                         | 1.0                             | 0.0038   | 002.6824                                     | 000.6942                                    | 070.409                          |
| 80.0                                     | 0.077                         | 1.0                             | 0.0015   | 001.6657                                     | 000.2892                                    | 071.360                          |
| 85.0                                     | 0.041                         | 1.0                             | 0.0004   | 000.8869                                     | 000.0773                                    | 072.116                          |
| 90.0                                     | 0.016                         | 1.0                             | 0.0001   | 000.3461                                     | 000.0000                                    | 072.654                          |

**WFRF**  
Type: AM  
Channel: 1070  
Latitude: 30-30-34 N  
Longitude: 084-20-07 W

**1762753**

Latitude: 30-30-34 N  
Longitude: 084-20-07 W  
ERP: 0.25 kW  
Channel: 294  
Frequency: 106.7 MHz  
AMSL Height: 128.0 m  
Elevation: 37.64 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**EXHIBIT - 3**

