

LONG FORM MINOR CHANGE APPLICATION
AUGUSTA RADIO FELLOWSHIP INSTITUTE, INC.
NEW FM TRANSLATOR STATION
BNPFT-20030310ACJ
CH 270D - 101.9 MHZ - 0.25 KW
BRANCHVILLE, SOUTH CAROLINA
March 2013

EXHIBIT B1

Interference Study for New Translator on Channel 270. Branchville, South Carolina
Using Proposed Site as Reference

| REFERENCE | | CH# 270D - 101.9 MHz, Pwr= 0.25 kW, HAAT= 125.4 M, COR= 165 M | | | | | | | | DISPLAY DATES | |
|----------------------------|---------|---|--------------|----------------|---------------------------|--------------------------|----------------------|---------------------|------------------------------------|-------------------------|--------|
| 33 19 12.0 N. | | Average Protected F(50-50)= 14.4 km | | | | | | | | DATA 03-20-13 | |
| 80 43 50.0 W. | | Omni-directional | | | | | | | | SEARCH 03-20-13 | |
| CH CITY | CALL | TYPE | ANT STATE | AZI. <-- | DIST FILE # | LAT. LNG. | Pwr (kW) HAAT (M) | INT (km) COR (M) | PRO (km) LICENSEE | *IN* (Overlap in km) | *OUT* |
| 270D Branchville | 628593 | APP | C SC | 242.9 62.9 | 10.98 BNPFT20030310ACJ | 33 16 30.0 80 50 09.0 | 0.019 100 | 22.5 138 | 6.8 Augusta Radio Fellowship I | -26.1*< | -44.6< |
| 269C1 Hanahan | WAVF | LIC | CX SC | 123.6 304.1 | 100.35 BLH20081003AEA | 32 49 04.0 79 50 08.0 | 100.000 238 | 99.0 239 | 67.3 Apex Broadcasting, Inc. | -13.3< | 10.9 |
| 267C Sumter | WVDM | LIC | DEN SC | 3.2 183.2 | 81.40 BMLH19980925KB | 34 03 04.0 80 40 55.0 | 100.000 403 | 11.2 471 | 78.6 Ymf Media South Carolina L | 56.0 | 1.7 |
| 271D Orangeburg | 631019 | APP | DC SC | 334.6 154.5 | 28.82 BNPFT20030317AJA | 33 33 15.0 80 51 50.0 | 0.055 36 | 8.7 106 | 6.1 Capstar Tx Limited Partner | 6.2 | 1.8 |
| 271D Saint Matthews | 644918 | APP | DC SC | 351.4 171.4 | 38.41 BNPFT20030317AQE | 33 39 41.8 80 47 32.5 | 0.013 110 | 4.3 181 | 2.9 Roger D. Blume | 20.2 | 14.5 |
| 271C0 Tybee Island | WZAT | LIC | C GA | 202.2 21.9 | 151.39 BLH20110830ABO | 32 03 29.0 81 20 19.0 | 100.000 405 | 118.3 410 | 79.7 Cumulus Licensing Llc | 18.5 | 49.7 |
| 271C2 Pamplico | WMXT | LIC | ZEX SC | 49.2 229.7 | 112.27 BMLH20090601AKJ | 33 58 36.0 79 48 32.0 | 50.000 146 | 77.6 174 | 51.7 Cumulus Licensing Llc | 20.2 | 38.7 |
| 271D Hammond Crossroads | 633758 | APP | DC SC | 350.1 170.1 | 49.96 BNPFT20030317CCZ | 33 45 46.0 80 49 23.0 | 0.250 186 | 8.4 240 | 5.9 Miller Communications, Inc | 27.6 | 23.0 |
| 270C0 Gastonia | WBAV-FM | LIC | CY NC | 346.9 166.6 | 218.46 BLH19880129KD | 35 13 57.0 81 16 35.0 | 100.000 301 | 174.5 552 | 74.0 Cbs Radio Stations Inc. | 30.0 | 97.1 |
| 273C1 North Charleston | WXLV | LIC | CX SC | 123.6 304.1 | 100.33 BMLH20080521AAJ | 32 49 04.0 79 50 09.0 | 100.000 201 | 8.3 202 | 64.0 Citicasters Licenses, Inc. | 77.4 | 35.2 |
| 268D Hampton | 650263 | APP | C SC | 217.8 37.6 | 60.08 BNPFT20030317IYT | 32 53 33.0 81 07 31.0 | 0.055 55 | 0.5 82 | 6.6 Radio Training Network, In | 45.0 | 52.4 |
| 270Li Aiken | WASD-LP | LIC | SC | 286.8 106.3 | 99.46 BLL20060411ABC | 33 34 30.0 81 45 30.0 | 0.079 34 | 17.3 159 | 5.3 Aiken Christian Broadcasti | 67.8 | 45.8 |
| 268D Hampton | 629398 | APP | C SC | 212.0 31.8 | 62.57 BNPFT20030310ADS | 32 50 32.0 81 05 08.0 | 0.019 105 | 0.3 128 | 7.0 Augusta Radio Fellowship I | 47.7 | 54.5 |

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM

Contour distances are on direct line to and from reference station. 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 protected contour.

< = Contour Overlap

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Predicted contour:

N. Lat. = 33 19 12 - Tabulated Protected and Interfering Contour Data
W. Lng. = 80 43 50 - New Translator FM Translator - Florence, South Carolina

| HAAT and Distance to Contour - FCC 30 Second Terrain Database | | | | | | | | | |
|---|-------|-------|--------|-------|-------|--------|-------|-------|-------|
| Azi. | AV EL | HAAT | ERP kW | dBk | Field | 100-F1 | 60-F5 | 54-F1 | 40-F1 |
| 000 | 45.6 | 119.4 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.03 | 21.18 | 47.61 |
| 010 | 44.3 | 120.7 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.11 | 21.30 | 47.80 |
| 020 | 43.0 | 122.0 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.18 | 21.40 | 47.98 |
| 030 | 42.7 | 122.3 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.20 | 21.43 | 48.02 |
| 040 | 39.1 | 125.9 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.40 | 21.74 | 48.52 |
| 050 | 37.5 | 127.5 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.50 | 21.89 | 48.75 |
| 060 | 37.0 | 128.0 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.53 | 21.93 | 48.81 |
| 070 | 33.0 | 132.0 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.76 | 22.28 | 49.35 |
| 080 | 32.3 | 132.7 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.81 | 22.34 | 49.45 |
| 090 | 35.8 | 129.2 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.60 | 22.03 | 48.98 |
| 100 | 35.5 | 129.5 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.61 | 22.06 | 49.02 |
| 110 | 34.1 | 130.9 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.70 | 22.18 | 49.20 |
| 120 | 33.0 | 132.0 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.77 | 22.28 | 49.36 |
| 130 | 37.0 | 128.0 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.52 | 21.93 | 48.81 |
| 140 | 36.4 | 128.6 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.56 | 21.98 | 48.89 |
| 150 | 37.3 | 127.7 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.50 | 21.90 | 48.77 |
| 160 | 36.4 | 128.6 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.56 | 21.98 | 48.89 |
| 170 | 36.7 | 128.3 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.54 | 21.95 | 48.85 |
| 180 | 39.1 | 125.9 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.40 | 21.75 | 48.52 |
| 190 | 36.6 | 128.4 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.55 | 21.96 | 48.87 |
| 200 | 36.1 | 128.9 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.58 | 22.00 | 48.93 |
| 210 | 36.8 | 128.2 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.53 | 21.94 | 48.83 |
| 220 | 35.2 | 129.8 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.63 | 22.08 | 49.05 |
| 230 | 35.5 | 129.5 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.61 | 22.05 | 49.01 |
| 240 | 36.4 | 128.6 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.56 | 21.98 | 48.89 |
| 250 | 36.4 | 128.6 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.56 | 21.98 | 48.89 |
| 260 | 36.6 | 128.4 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.55 | 21.97 | 48.87 |
| 270 | 39.0 | 126.0 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.41 | 21.75 | 48.53 |
| 280 | 40.0 | 125.0 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.35 | 21.67 | 48.40 |
| 290 | 40.0 | 125.0 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.35 | 21.66 | 48.39 |
| 300 | 44.1 | 120.9 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.12 | 21.31 | 47.83 |
| 310 | 46.2 | 118.8 | 0.2500 | -6.02 | 1.000 | 1.11 | 14.00 | 21.13 | 47.53 |
| 320 | 48.0 | 117.0 | 0.2500 | -6.02 | 1.000 | 1.11 | 13.90 | 20.96 | 47.26 |
| 330 | 48.2 | 116.8 | 0.2500 | -6.02 | 1.000 | 1.11 | 13.89 | 20.94 | 47.22 |
| 340 | 47.9 | 117.1 | 0.2500 | -6.02 | 1.000 | 1.11 | 13.90 | 20.97 | 47.27 |
| 350 | 47.3 | 117.7 | 0.2500 | -6.02 | 1.000 | 1.11 | 13.94 | 21.02 | 47.36 |

AMSL= 165 M