

**Channel Study**

| REFERENCE      |  | CH# 270D - 101.9 MHz, Pwr= 0.01 kW, HAAT=85.2M, COR= 183 M |      |        |                  |          |         |          |                            | DISPLAY DATES |         |
|----------------|--|--|------|--------|------------------|----------|---------|----------|----------------------------|---------------|---------|
| 35 27 40 N.    | Average Protected F(50-50)= 5.4 km                             |  |      |        |                  |          |         |          | DATA                       | 01-27-07      |         |
| 79 08 38 W.    | Ave. F(50-10) 40 dBu= 17.5 54 dBu= 7.5 80 dBu= 1.5 100 dBu= .2 |  |      |        |                  |          |         |          | SEARCH                     | 01-29-07      |         |
| CH             | CALL   | TYPE   | AZI. | DIST   | LAT.             | Pwr(kW)  | COR(M)  | PRO(km)  | *IN*                       | *OUT*         |         |
| CITY           | STATE  |  | <--  | FILE # | LNG.             | HAAT(M)  | INT(km) | LICENSEE | (Overlap                   | in km)        |         |
| 270D           | W270AW   | CP   | C    | 0.0    | 0.00             | 35 27 40 | 0.010   | 203      | 6.4                        | -27.15*       | -25.66* |
| Sanford        | NC   |  |      | 0.0    | BMPFT20040719ADD | 79 08 38 | 120     | 21.3     | Educational Media Foundati |               |         |
| 268C           | WRAL   | LIC  | C    | 66.3   | 60.10            | 35 40 35 | 100.000 | 646      | 89.9                       | 41.97         | -30.03* |
| Raleigh        | NC   |  |      | 246.7  | BMLH20040903ABQ  | 78 32 08 | 555     | 13.1     | Wral-fm, Inc.              |               |         |
| 272D           | W272BN   | CP   | C    | 251.0  | 6.83             | 35 26 28 | 0.019   | 185      | 5.5                        | 1.84          | 1.15    |
| Sanford        | NC   |  |      | 70.9   | BNPFT20030825AMF | 79 12 54 | 64      | 0.3      | Positive Alternative Radio |               |         |
| 273A           | WIOZ-F   | LIC  | CN   | 221.4  | 45.88            | 35 09 04 | 3.400   | 258      | 28.0                       | 38.77         | 17.64   |
| Southern Pines | NC   |  |      | 41.2   | BLH19951107KB    | 79 28 40 | 131     | 2.6      | Meridian Communications. L |               |         |
| 271C0          | WJMH   | LIC  | C    | 321.8  | 115.54           | 36 16 33 | 100.000 | 600      | 76.8                       | -3.48         | 30.61   |
| Reidsville     | NC   |  |      | 141.4  | BMLH20010731ACA  | 79 56 26 | 360     | 113.2    | Entercom Greensboro Licens |               |         |
| 273D           | W270BM   | CP   | C    | 99.3   | 43.75            | 35 23 48 | 0.010   | 138      | 5.4                        | 38.81         | 38.13   |
| Coats          | NC   |  |      | 279.6  | BMPFT20041214ADB | 78 40 07 | 86      | 0.2      | Educational Media Foundati |               |         |
| 272D           | AP0058   | APP  | C    | 150.4  | 45.65            | 35 06 13 | 0.038   | 97       | 4.7                        | 39.74         | 40.77   |
| Fayetteville   | NC   |  |      | 330.5  | BNPFT20030317JVV | 78 53 44 | 34      | 0.4      | Shaw University            |               |         |
| 270C           | WBAV-F   | LIC  | CY   | 263.1  | 195.51           | 35 13 56 | 100.000 | 552      | 74.5                       | 15.14         | 104.64  |
| Gastonia       | NC   |  |      | 81.9   | BLH19880129KD    | 81 16 35 | 328     | 175.3    | Cbs Radio Holdings Inc.    |               |         |
| 273A           | WKXU.A   | APP  | CX   | 12.6   | 73.03            | 36 06 11 | 1.450   | 353      | 29.8                       | 64.54         | 42.99   |
| Hillsborough   | NC   |  |      | 192.8  | BPH20060921ACX   | 78 57 56 | 228     | 2.3      | New Century Media Group, L |               |         |
| 270C1          | WIKS   | LIC  | CN   | 98.7   | 180.19           | 35 12 07 | 100.000 | 308      | 72.1                       | 3.91          | 93.39   |
| New Bern       | NC   |  |      | 279.8  | BLH19870306KD    | 77 11 15 | 296     | 171.6    | Wiks License Limited Partn |               |         |
| 270C1          | WIKS   | RSV  |      | 98.7   | 180.24           | 35 12 02 | 100.000 | 0        | 31.0                       | 44.82         | 134.55  |
| Grifton        | NC   |  |      | 279.8  |                  | 77 11 14 | -12     | 130.7    | Wiks License Limited Partn |               |         |
| 270C1          | WIKS.A   | APP  | CX   | 98.7   | 180.24           | 35 12 02 | 100.000 | 307      | 72.0                       | 4.06          | 93.52   |
| Grifton        | NC   |  |      | 279.8  | BPH20070119AEO   | 77 11 14 | 295     | 171.5    | Wiks License Limited Partn |               |         |
| 273A           | AL2642   | RSV  |      | 9.7    | 73.47            | 36 06 49 | 6.000   | 0        | 15.8                       | 65.75         | 57.49   |
| Hillsborough   | NC   |  |      | 189.8  | RM11038          | 79 00 20 | -143    | 1.6      |                            |               |         |
| 272A           | AL8950   | RSV  |      | 88.8   | 74.01            | 35 28 21 | 6.000   | 0        | 15.8                       | 67.49         | 58.04   |
| Smithfield     | NC   |  |      | 269.3  | RM10377          | 78 19 43 | -55     | 1.6      |                            |               |         |
| 272A           | WWNF.A   | APP  | CX   | 90.6   | 80.83            | 35 27 03 | 2.600   | 195      | 28.1                       | 73.36         | 52.47   |
| Smithfield     | NC   |  |      | 271.1  | BPH20041221ABZ   | 78 15 13 | 152     | 2.5      | New Age Communications, In |               |         |
| 272A           | WWNF   | LIC  | C    | 94.1   | 91.86            | 35 23 52 | 2.100   | 211      | 28.9                       | 84.60         | 62.75   |
| Goldsboro      | NC   |  |      | 274.7  | BLH20010522AAF   | 78 08 07 | 179     | 2.5      | New Age Communications, In |               |         |
| 273D           | AP2132   | APP  | C    | 339.7  | 74.86            | 36 05 36 | 0.027   | 279      | 6.6                        | 68.77         | 67.99   |
| Burlington     | NC   |  |      | 159.6  | BNPFT20030317GTG | 79 25 59 | 80      | 0.4      | Edgewater Broadcasting, In |               |         |

Terrain database is NGDC 30 SEC

ERP and HAAT on direct-line with reference station.

\*\*\*affixed to 'IN' or 'Out' values = site inside protected contour.

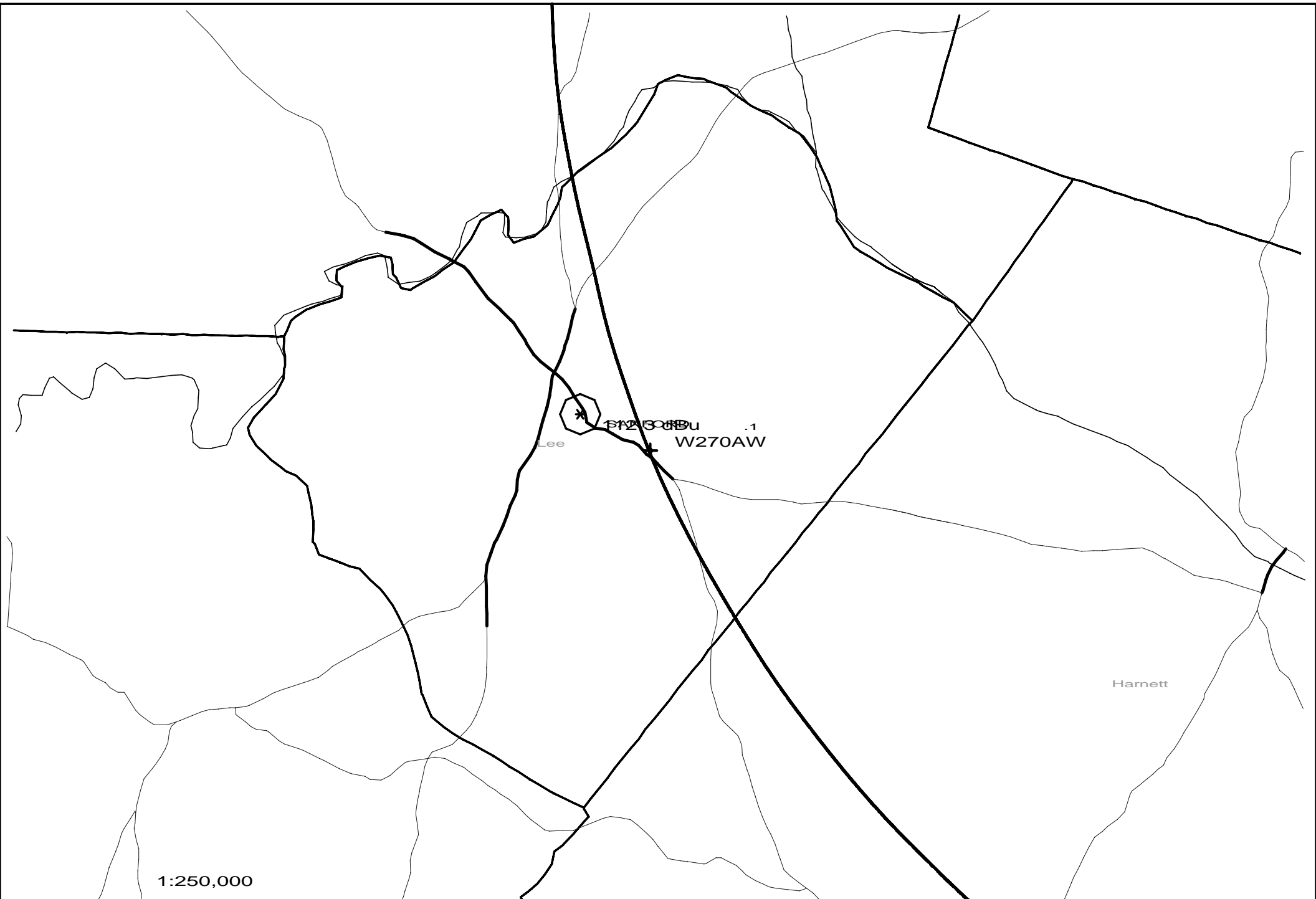
**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 60 dBu contour of third adjacent channel station WRAL, channel 268C, Raleigh, NC. The predicted F(50-50) field strength of WRAL at the proposed translator site is 72.3 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 112.3 dBu. This interfering contour extends approximately 53.7 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

Two factors have been investigated to determine this absence of population:

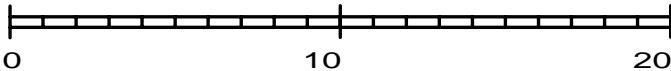
- 1.) Computer software which uses the centroid method of determining population centers, based on the 2000 census data, has determined that there are no persons within the area of overlap.
- 2.) Examination of the USGS topographic map (see Exhibit 12A-2) reveals no regularly occupied structures within the area of overlap.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.



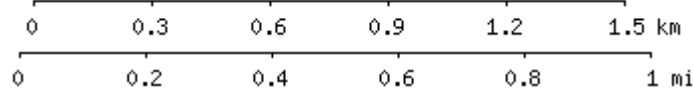
1:250,000

Scale in km



W270AW 270D .01kW 183M AMSL  
N. Lat. 35 27 40 W. Lng. 79 08 38

W270AW  
EMF - 01/07



35° 27' 40"N, 79° 08' 38"W (NAD27)  
Elevation 466.4 ft / 142.1 m (USGS NED)  
**USGS Sanford (NC) Quadrangle**  
Projection is UTM Zone 17 NAD83 Datum

