

MINOR CHANGE APPLICATION

W299CA, Statesboro, GA- Relocating as Fill-In Translator for WAZZ (AM)

July, 2016

TECHNICAL STATEMENT

This technical statement and attached exhibits have been prepared on behalf of Beasley Media Group, LLC (“BMG”), Proposed assignee of translator construction permit W299CA, Facility ID number 156440. The applicant proposes to modify the CP for BMPFT-20160322ADD to change tower location and use the translator as a fill-in translator for AM station WAZZ (AM), Fayetteville, NC (1490kHz, Class C). Facility ID number 72058 in compliance with 47 CFR 74.1201(g). The translator community of license will change to Fayetteville, NC. The proposed operation is compliant with the FCC’s “AM Revitalization” Order released October 23, 2015 (AMR Order). As a class C station, WAZZ is eligible to apply in the first modification window opening January 29, 2016- July 28, 2016. In accordance with the modifications permitted the AMR Order, translator station W299CA will change frequency from channel 299D (107.7MHz) to 228D (93.5MHz) and will be relocated 246 miles from the currently permitted site to the proposed tower site which is within the maximum allowable 250 miles.

Facilities Proposed

Location (NAD27)	35° 04' 06" N Latitude, 78° 54' 09" W Longitude
Channel	228D (93.5MHz)
Tower Overall AGL Height-	107m
Tower ASR	1059252 (Exhibit D)
Proposed Antenna	LPX-5E-HW (Diplex with W232CI)
Antenna AGL Height-	100m
Site AMSL Height-	43m
COR AMSL Height	143m
ERP	230w NON DIRECTIONAL

Interference Study

ComStudy 2.2 search of channel 228 (93.5 MHz Class D) at 35-04-06.0 N, 78-54-09.0 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE	
WNCB	CARY	NC 230 C	72.03	0.00	6.1	-3.27 dB	EXHIBIT C
WEGX	DILLON	SC 225 C	86.72	0.00	206.4	-0.00 dB	EXHIBIT B1
W228CZ	CARY	NC 228 D	70.42	0.00	13.5	4.73 dB	EXHIBIT B
WJFT-LP	SANFORD	NC 228 LP100	55.66	24.00	333.4	4.07 dB	EXHIBIT B
W228CV	CHAPEL HILL	NC 228 D	92.08	0.00	345.4	9.65 dB	
WERO	WASHINGTON	NC 227 C	141.25	0.00	76.0	11.75 dB	
W227CZ	DURHAM	NC 227 D	115.01	0.00	357.2	12.60 dB	
WDJD-LP	ELIZABETHTOWN	NC 229 LP100	52.83	13.00	152.9	13.65 dB	
WRLY-LP	RALEIGH	NC 228 LP100	91.81	24.00	10.5	14.32 dB	
W229BD	SOUTHERN PINES	NC 229 D	45.45	0.00	278.4	14.37 dB	
WYFQ-FM	WADESBORO	NC 228 C3	128.47	0.00	269.5	14.95 dB	
WLQB	OCEAN ISLE BEACH	NC 228 A	134.87	0.00	159.8	18.38 dB	
W231AB	LUMBERTON	NC 231 D	48.62	0.00	191.5	25.73 dB	
W228BE	WINSTON SALEM	NC 228 D	163.64	0.00	313.7	28.76 dB	
WPAW	WINSTON-SALEM	NC 226 C	163.65	0.00	325.4	28.40 dB	
WNTB	TOPSAIL BEACH	NC 229 A	131.97	0.00	130.0	31.41 dB	

COMPLIANCE, 74.1201(g), 74.1233(a)(1), 74.1204(a) and 74.1204(d)

Exhibit A demonstrates compliance with Rule 74.1201(g) governing the use of a translator as a fill-in for an AM station. The 60dBu contour of the proposed W299CA will be completely contained within the 2mV/m contour of WAZZ (AM) and is within 25 miles of the WAZZ transmitter. The proposed translator is co-located with the WAZZ transmitter.

Due to the special nature of the AMR Order, Rule 74.1233(a)(1) does not apply.

Exhibit B and B1 demonstrates compliance with Rule 74.1204(a). There are no impermissible contour overlaps to any other facilities.

As demonstrated in Exhibit C, per Rule 74.1204(d), there will be no location where the signal of the proposed W299CA will be in excess of 40dBu above the WNCB (FM) second adjacent signal.

Environmental Exhibit

The proposed facility will use a five-bay $\frac{1}{2}$ wave spaced antenna in order to keep the W299CA RF at 2m AGL less than 40dBu higher than WNCB (FM), Channel 230C.

The station will emit 240 watts ERP (both horizontal and vertical) and will be co-located (diplexed) with W232CI. Using the FCC program "FM Model for Windows", it was calculated that the proposed W299CA contribution to the RF field at 2m AGL is approximately $2.8 \mu\text{W}/\text{cm}^2$ or 1.4% of the total allowable $200 \mu\text{W}/\text{cm}^2$. The 1.4% of maximum allowable RF at ground level takes place 484m from the base of the tower. Because the contribution of the proposed W299CA will be under 5% of the maximum permissible RF radiation at 2m AGL, W299CA is categorically excluded from further environmental review under 1.1306 of the FCC rules and regulations.

There are no other non-excluded RF sources in the area other than the 1kW AM, WAZZ which is compliant with appropriate RFR regulations and has fencing in place to prevent public access to areas near the tower where excessive RFR exists.

Respectfully Submitted



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EXHIBIT A- FCC 74.1201(g) Compliance

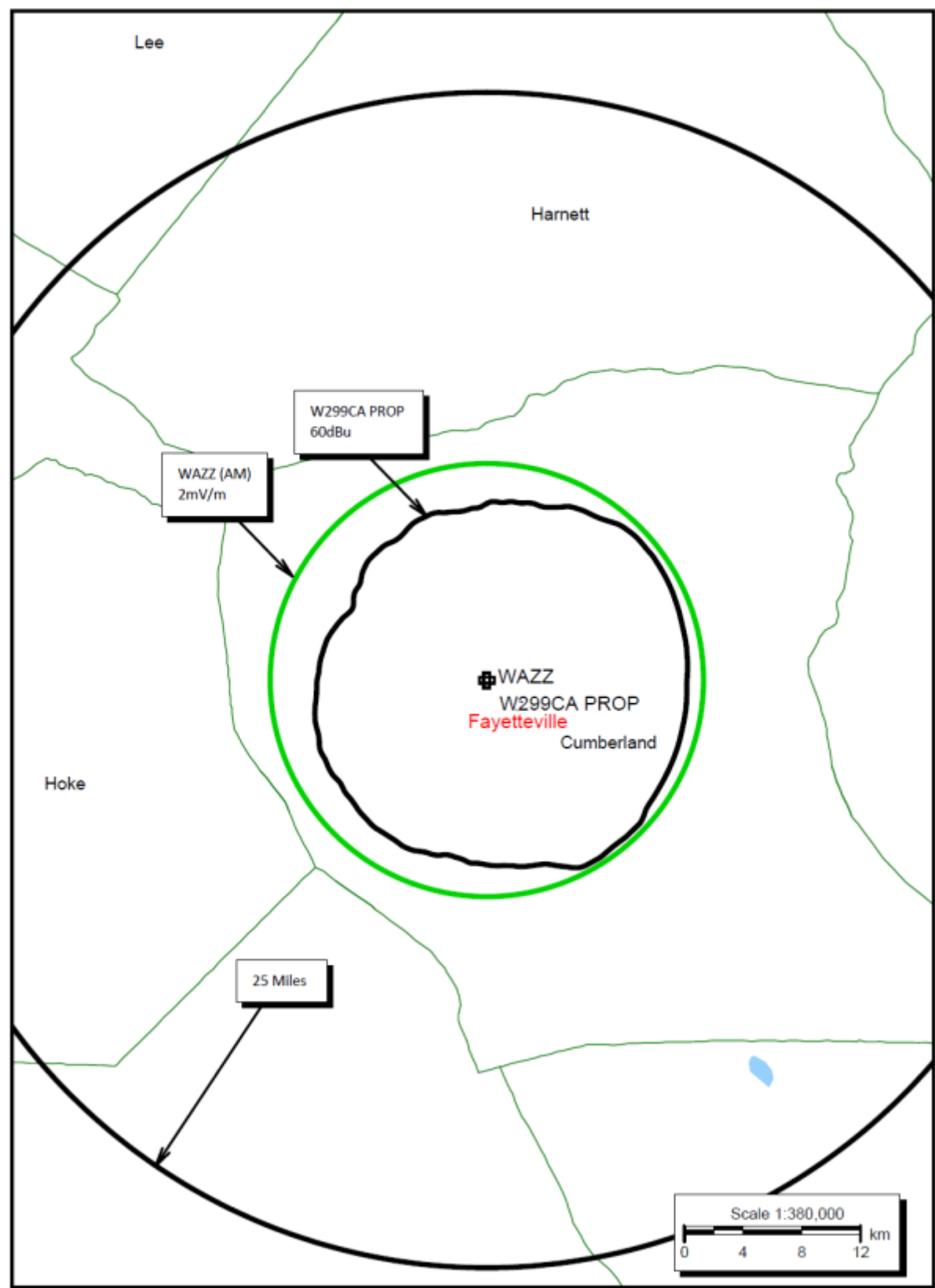


EXHIBIT B 74.1204(a) Compliance

74.1204(a) Compliance PROP 228D

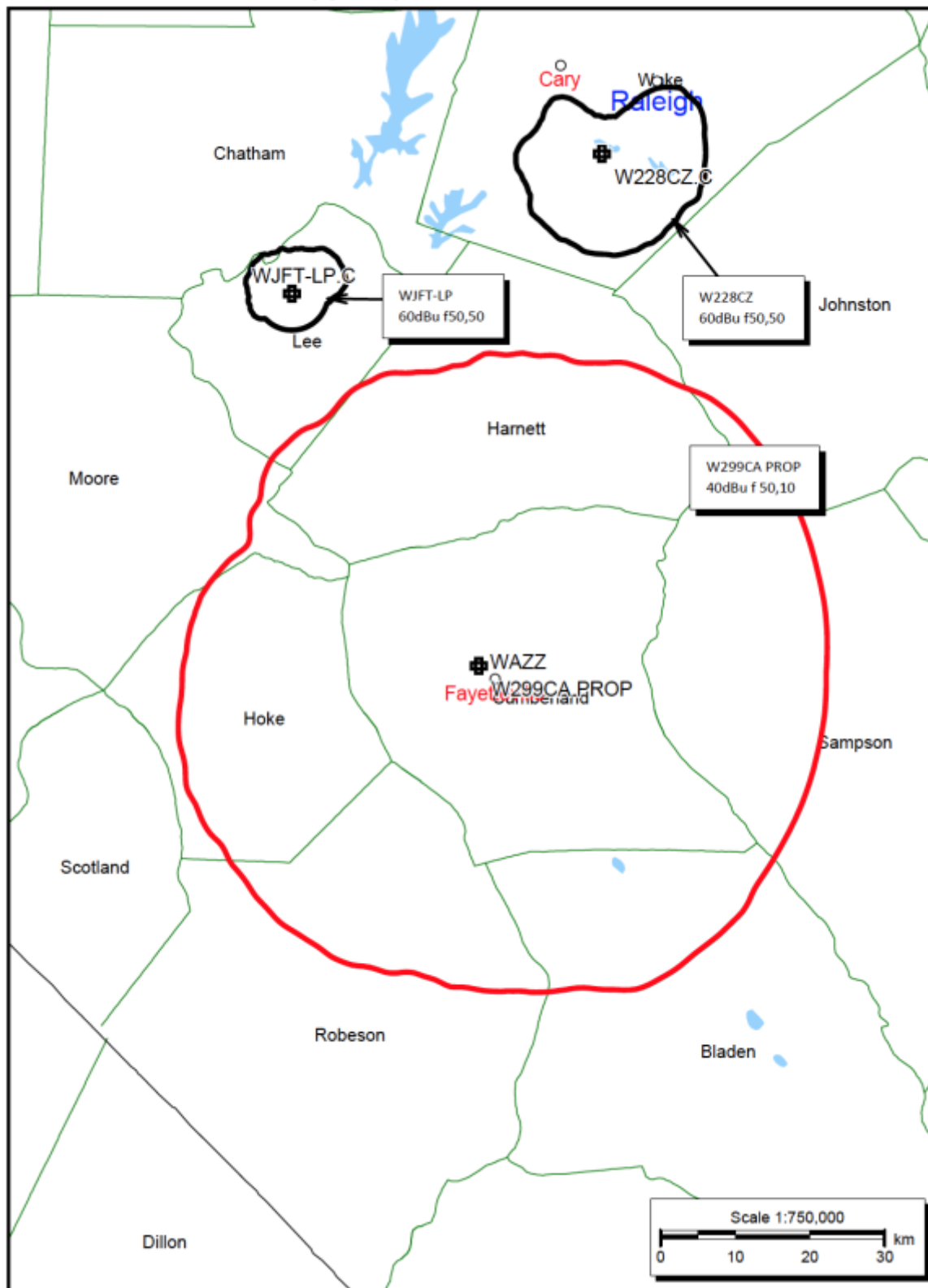
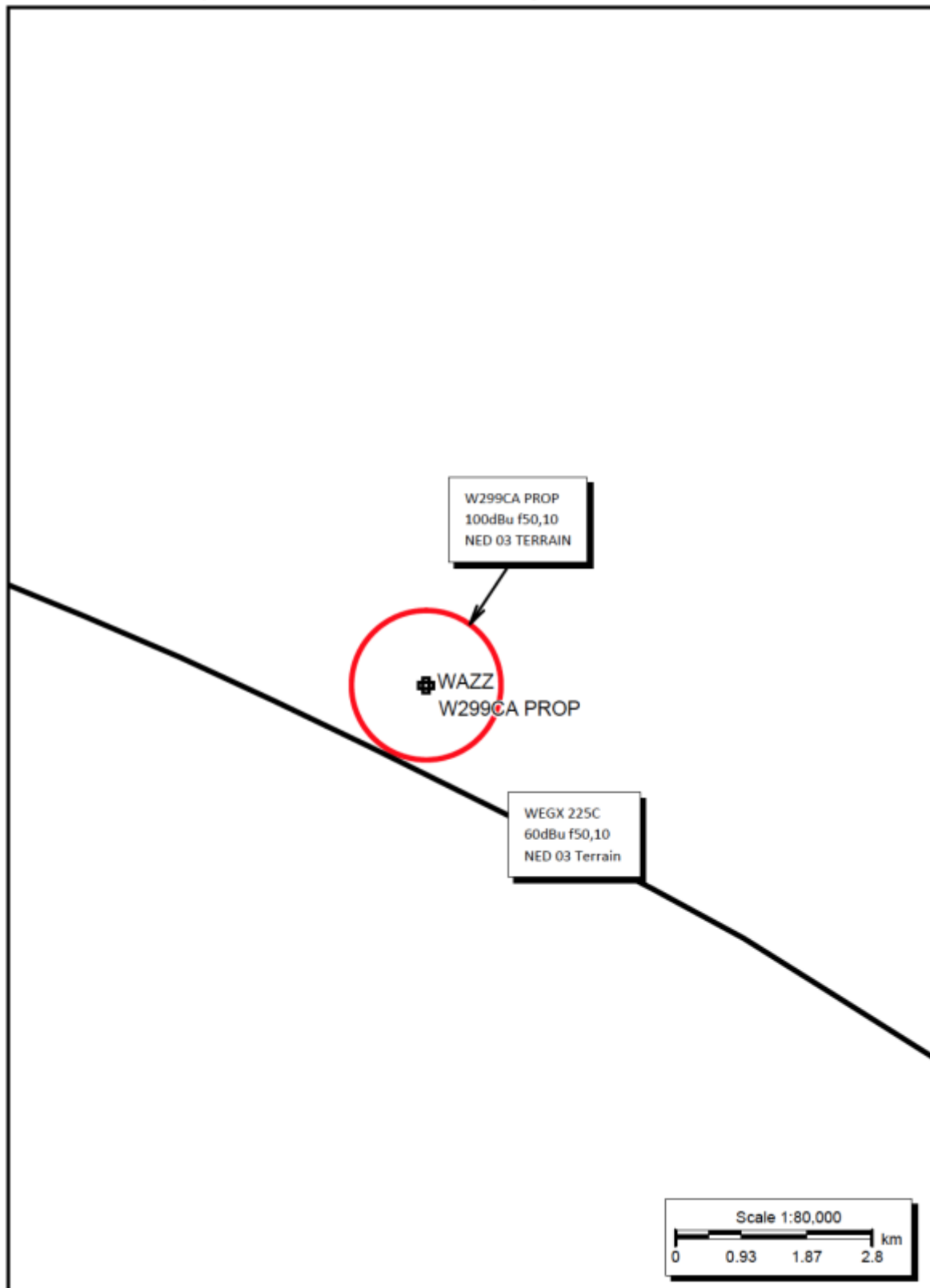


EXHIBIT B1 74.1204(a) Compliance

Proposed 228D Contours to 3rd Adjacent WEGX 225C



WEGX 60dBu f50,50 – NED03 Sec Terrain Distance to Contour

Call Letters: WEGX
File Number: BMLH20140905AAY
Latitude: 34-22-04 N
Longitude: 079-19-21 W
ERP: 100.00 kW
Channel: 225
Frequency: 92.9 MHz
AMSL Height: 521.2 m
Elevation: 35.0 m
HAAT: 492.9 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No

Type of contour: FCC
Location Variability: 50.0 %
Time Variability: 50.0 %
of Radials Calculated: 360
FCC Matching HAAT Calculation Used
Field Strength: 60.00 dBuV/m

Primary Terrain: NED 3 Second US Terrain
Secondary Terrain: FCC 30 Second US Database

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
0.0	85.59	481.6
1.0	85.64	482.4
2.0	85.66	482.7
3.0	85.68	483.0
4.0	85.66	482.8
5.0	85.62	482.2
6.0	85.62	482.1
7.0	85.61	481.9
8.0	85.60	481.8
9.0	85.60	481.8
10.0	85.58	481.5
11.0	85.60	481.8
12.0	85.59	481.6
13.0	85.60	481.8
14.0	85.59	481.7
15.0	85.58	481.4
16.0	85.58	481.5
17.0	85.57	481.4
18.0	85.57	481.2
19.0	85.57	481.4
20.0	85.56	481.2
21.0	85.55	480.9
22.0	85.55	481.0
23.0	85.56	481.2
24.0	85.57	481.4
25.0	85.57	481.3
26.0	85.57	481.4
27.0	85.58	481.5
28.0	85.62	482.0
29.0	85.66	482.7
30.0	85.69	483.2
31.0	85.65	482.6
32.0	85.64	482.4
33.0	85.66	482.7
34.0	85.67	483.0
35.0	85.68	483.0

36.0	85.65	482.6
37.0	85.63	482.3
38.0	85.61	481.9
39.0	85.61	481.9
40.0	85.60	481.8
41.0	85.60	481.7
42.0	85.60	481.8
43.0	85.63	482.3
44.0	85.63	482.3
45.0	85.65	482.5
46.0	85.72	483.6
47.0	85.81	485.1
48.0	85.83	485.4
49.0	85.86	485.9
50.0	85.88	486.2
51.0	85.89	486.5
52.0	85.86	486.0
53.0	85.89	486.3
54.0	85.92	486.9
55.0	85.93	487.1
56.0	85.95	487.3
57.0	85.99	488.0
58.0	86.03	488.6
59.0	86.04	488.7
60.0	86.05	488.9
61.0	86.04	488.8
62.0	86.03	488.7
63.0	86.02	488.5
64.0	86.01	488.4
65.0	86.01	488.3
66.0	86.02	488.5
67.0	86.03	488.7
68.0	86.04	488.8
69.0	86.03	488.6
70.0	86.02	488.4
71.0	86.02	488.5
72.0	86.04	488.8
73.0	86.07	489.2
74.0	86.09	489.6
75.0	86.09	489.7
76.0	86.09	489.6
77.0	86.09	489.6
78.0	86.10	489.8
79.0	86.13	490.3
80.0	86.16	490.8
81.0	86.17	491.0
82.0	86.19	491.2
83.0	86.20	491.5
84.0	86.20	491.5
85.0	86.21	491.6
86.0	86.20	491.4
87.0	86.20	491.4
88.0	86.19	491.2
89.0	86.20	491.5
90.0	86.19	491.3

W299CA PROP 100dBu f50,10 NED03 Second Terrain Distance to Contour

Call Letters: W299CA PROP
File Number: BLFT20151223AJN
Latitude: 35-04-06 N
Longitude: 078-54-09 W
ERP: 0.24 kW
Channel: 228
Frequency: 93.5 MHz
AMSL Height: 143.0 m
Elevation: 43.0 m
HAAT: 0.0 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No

Type of contour: FCC
Location Variability: 50.0 %
Time Variability: 10.0 %
of Radials Calculated: 360
FCC Matching HAAT Calculation Used
Field Strength: 100.00 dBuV/m

Primary Terrain: NED 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
-----	-----	-----
160.0	1.09	109.3
161.0	1.09	105.3
162.0	1.09	102.5
163.0	1.09	100.8
164.0	1.09	100.4
165.0	1.09	99.8
166.0	1.09	98.8
167.0	1.09	98.2
168.0	1.09	99.0
169.0	1.09	99.1
170.0	1.09	98.7
171.0	1.09	98.3
172.0	1.09	96.9
173.0	1.09	96.4
174.0	1.09	95.8
175.0	1.09	96.1
176.0	1.09	95.7
177.0	1.09	95.8
178.0	1.09	96.4
179.0	1.09	96.0
180.0	1.09	95.7
181.0	1.09	94.9
182.0	1.09	94.6
183.0	1.09	94.5
184.0	1.09	94.3
185.0	1.09	93.9
186.0	1.09	93.5
187.0	1.09	93.2
188.0	1.09	92.7
189.0	1.09	91.8
190.0	1.09	91.1
191.0	1.09	90.5
192.0	1.09	89.9
193.0	1.09	89.8
194.0	1.09	89.9
195.0	1.09	90.7
196.0	1.09	91.1

197.0	1.09	91.6
198.0	1.09	91.3
199.0	1.09	91.8
200.0	1.09	93.2
201.0	1.09	94.1
202.0	1.09	94.5
203.0	1.09	94.2
204.0	1.09	94.4
205.0	1.09	93.8
206.0	1.09	93.4
207.0	1.09	93.1
208.0	1.09	92.7
209.0	1.09	92.6
210.0	1.09	92.3
211.0	1.09	93.0
212.0	1.09	92.4
213.0	1.09	92.4
214.0	1.09	92.9
215.0	1.09	92.9
216.0	1.09	92.3
217.0	1.09	91.2
218.0	1.09	90.9
219.0	1.09	90.8
220.0	1.09	90.3
221.0	1.09	89.2
222.0	1.09	89.3
223.0	1.09	89.4
224.0	1.09	89.7
225.0	1.09	88.9
226.0	1.09	88.4
227.0	1.09	88.1
228.0	1.09	87.7
229.0	1.09	87.3
230.0	1.09	86.6
231.0	1.09	85.8
232.0	1.09	85.8
233.0	1.09	85.4
234.0	1.09	85.0
235.0	1.09	84.7
236.0	1.09	84.0
237.0	1.09	83.7
238.0	1.09	83.0
239.0	1.09	82.2
240.0	1.09	82.1
241.0	1.09	81.6
242.0	1.09	80.3
243.0	1.09	80.0
244.0	1.09	79.4
245.0	1.09	79.7
246.0	1.09	79.7
247.0	1.09	80.2
248.0	1.09	79.3
249.0	1.09	78.5
250.0	1.09	77.5
251.0	1.09	77.3
252.0	1.09	76.7
253.0	1.09	77.4
254.0	1.09	76.7
255.0	1.09	76.0
256.0	1.09	75.3
257.0	1.09	73.5
258.0	1.09	73.2
259.0	1.09	73.0
260.0	1.09	72.0

EXHIBIT C 74.1204(d) Compliance

PROP Fayetteville , NC
 74.1204(d) Showing
 Translator or LPFM Maximum Licensed ERP = 0.23
 Translator or LPFM Antenna Height AG = 100 Meters
 W232CI Antenna Model = SHPX5H

Protected Station's Contour = 62.85339 dBu
 Translator's or LPFM's full Interference contour 102.85339

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.23 kW
 Distance between stations = 72.2 km
 Protected Station= WNCB, 100 kW, 557 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.2300	765.9394	765.9394	100.000
01.00	0.997	1.0	0.2286	763.6416	763.5253	086.673
02.00	0.988	1.0	0.2245	756.7481	756.2871	073.590
03.00	0.972	1.0	0.2173	744.4931	743.4728	061.036
04.00	0.951	1.0	0.2080	728.4084	726.6340	049.189
05.00	0.924	1.0	0.1964	707.7280	705.0349	038.317
06.00	0.892	1.0	0.1830	683.2180	679.4752	028.584
07.00	0.855	1.0	0.1681	654.8782	649.9969	020.190
08.00	0.813	1.0	0.1520	622.7088	616.6486	013.336
09.00	0.768	1.0	0.1357	588.2415	580.9992	007.979
10.00	0.719	1.0	0.1189	550.7104	542.3439	004.370
11.00	0.667	1.0	0.1023	510.8816	501.4953	002.519
12.00	0.613	1.0	0.0864	469.5208	459.2607	002.381
13.00	0.557	1.0	0.0714	426.6282	415.6938	004.030
14.00	0.5	1.0	0.0575	382.9697	371.5939	007.351
15.00	0.443	1.0	0.0451	339.3112	327.7494	012.180
16.00	0.385	1.0	0.0341	294.8867	283.4633	018.718
17.00	0.329	1.0	0.0249	251.9941	240.9831	026.324
18.00	0.273	1.0	0.0171	209.1015	198.8673	035.384
19.00	0.219	1.0	0.0110	167.7407	158.6020	045.389
20.00	0.167	1.0	0.0064	127.9119	120.1978	056.252
21.00	0.118	1.0	0.0032	090.3809	084.3778	067.610
22.00	0.071	1.0	0.0012	054.3817	050.4218	079.628
23.00	0.028	1.0	0.0002	021.4463	019.7414	091.620
24.00	0.012	1.0	0.0000	009.1913	008.3966	096.262
25.00	0.049	1.0	0.0006	037.5310	034.0147	084.139
26.00	0.082	1.0	0.0015	062.8070	056.4506	072.467
27.00	0.111	1.0	0.0028	085.0193	075.7527	061.402
28.00	0.136	1.0	0.0043	104.1678	091.9747	051.096
29.00	0.157	1.0	0.0057	120.2525	105.1752	041.700
30.00	0.174	1.0	0.0070	133.2735	115.4182	033.363
31.00	0.188	1.0	0.0081	143.9966	123.4292	025.836
32.00	0.198	1.0	0.0090	151.6560	128.6116	019.635
33.00	0.205	1.0	0.0097	157.0176	131.6860	014.482
34.00	0.209	1.0	0.0100	160.0813	132.7134	010.484
35.00	0.21	1.0	0.0101	160.8473	131.7584	007.742
36.00	0.208	1.0	0.0100	159.3154	128.8889	006.357
37.00	0.204	1.0	0.0096	156.2516	124.7881	005.965

38.00	0.197	1.0	0.0089	150.8901	118.9030	007.103
39.00	0.189	1.0	0.0082	144.7625	112.5016	008.898
40.00	0.179	1.0	0.0074	137.1032	105.0271	011.872
41.00	0.168	1.0	0.0065	128.6778	097.1144	015.580
42.00	0.155	1.0	0.0055	118.7206	088.2266	020.560
43.00	0.142	1.0	0.0046	108.7634	079.5445	025.824
44.00	0.128	1.0	0.0038	098.0402	070.5243	031.896
45.00	0.114	1.0	0.0030	087.3171	061.7425	038.257
46.00	0.099	1.0	0.0023	075.8280	052.6746	045.454
47.00	0.085	1.0	0.0017	065.1049	044.4014	052.385
48.00	0.07	1.0	0.0011	053.6158	035.8759	060.156
49.00	0.056	1.0	0.0007	042.8926	028.1401	067.629
50.00	0.042	1.0	0.0004	032.1695	020.6781	075.357
51.00	0.029	1.0	0.0002	022.2122	013.9786	082.738
52.00	0.017	1.0	0.0001	013.0210	008.0165	089.739
53.00	0.005	1.0	0.0000	003.8297	002.3048	096.941
54.00	0.006	1.0	0.0000	004.5956	002.7012	096.282
55.00	0.016	1.0	0.0001	012.2550	007.0292	089.961
56.00	0.026	1.0	0.0002	019.9144	011.1360	083.490
57.00	0.034	1.0	0.0003	026.0419	014.1835	078.159
58.00	0.042	1.0	0.0004	032.1695	017.0472	072.719
59.00	0.048	1.0	0.0005	036.7651	018.9354	068.486
60.00	0.054	1.0	0.0007	041.3607	020.6804	064.181
61.00	0.059	1.0	0.0008	045.1904	021.9088	060.476
62.00	0.064	1.0	0.0009	049.0201	023.0136	056.718
63.00	0.067	1.0	0.0010	051.3179	023.2979	054.275
64.00	0.07	1.0	0.0011	053.6158	023.5036	051.810
65.00	0.072	1.0	0.0012	055.1476	023.3064	050.019
66.00	0.074	1.0	0.0013	056.6795	023.0536	048.221
67.00	0.075	1.0	0.0013	057.4455	022.4457	047.121
68.00	0.075	1.0	0.0013	057.4455	021.5194	046.737
69.00	0.075	1.0	0.0013	057.4455	020.5866	046.370
70.00	0.075	1.0	0.0013	057.4455	019.6475	046.019
71.00	0.074	1.0	0.0013	056.6795	018.4530	046.408
72.00	0.073	1.0	0.0012	055.9136	017.2782	046.823
73.00	0.071	1.0	0.0012	054.3817	015.8997	047.995
74.00	0.069	1.0	0.0011	052.8498	014.5674	049.197
75.00	0.067	1.0	0.0010	051.3179	013.2821	050.431
76.00	0.065	1.0	0.0010	049.7861	012.0443	051.693
77.00	0.063	1.0	0.0009	048.2542	010.8548	052.983
78.00	0.06	1.0	0.0008	045.9564	009.5549	055.048
79.00	0.058	1.0	0.0008	044.4245	008.4766	056.392
80.00	0.055	1.0	0.0007	042.1267	007.3152	058.513
81.00	0.052	1.0	0.0006	039.8289	006.2306	060.662
82.00	0.049	1.0	0.0006	037.5310	005.2233	062.834
83.00	0.046	1.0	0.0005	035.2332	004.2938	065.029
84.00	0.043	1.0	0.0004	032.9354	003.4427	067.245
85.00	0.04	1.0	0.0004	030.6376	002.6702	069.479
86.00	0.037	1.0	0.0003	028.3398	001.9769	071.729
87.00	0.034	1.0	0.0003	026.0419	001.3629	073.994
88.00	0.031	1.0	0.0002	023.7441	000.8287	076.270
89.00	0.028	1.0	0.0002	021.4463	000.3743	078.557
90.00	0.025	1.0	0.0001	019.1485	000.0000	080.852

EXHIBIT D- ASR Registration

Registration 1059252

 [Map Registration](#)

Registration Detail

Reg Number	1059252	Status	Constructed
File Number	A0069596	Constructed	08/08/1979
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (In NAD83 Coordinates)

Lat/Long	35-04-07.0 N 078-54-08.0 W	Address	1338 BRAGG BLVD
City, State	FAYETTEVILLE , NC		
Zip	28305	County	CUMBERLAND
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
42.9	107.3
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
150.2	106.7

Painting and Lighting Specifications

FCC Paragraphs 1, 3, 12, 21

FAA Notification

FAA Study	79-ASO-167-OE	FAA Issue Date	10/25/1979
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Owner & Contact Information

FRN	Owner Entity Type
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Owner

BEASLEY FM ACQUISITION DBA = WAZZ AM	P: (910)486-0965
Attention To: MAC EDWARDS	F:
1338 BRAGG BLVD.	E:
FAYETTEVILLE , NC 28306	

Contact

P:
F:
E:

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Last Action Status

Status	Constructed	Received	01/04/1999
Purpose	New	Entered	01/04/1999
Mode	Interactive		

Related Applications

01/04/1999 A0069596 - New (NE)