

WPZS(FM) Minor Modification

This technical report is submitted for a minor modification to WPZS(FM) 265A at Indian Trail, NC, FCC file no. BLH-20080611ABB. An increase in ERP to the class A maximum 6.0 kW is submitted.

WPZS(FM) Modification Analysis:

A spacing study in exhibit E-1 shows WPZS(FM) is short-spaced to WYMY(FM) 266C0 at Burlington, NC. As a result, it is requested WPZS(FM) be designated as a 73.215(c) short-spaced facility. An interference plot to WPZS(FM) and FMOOver tabulation at its maximum class parameters are included as exhibits E-2 and E-3. The WPZS(FM) modification is to remain at its current site, ASR 1036617, at coordinates:

35 07 29N 80 43 30W NAD27.

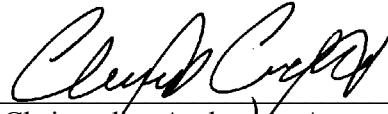
A Shively 6810 two bay, full wavelength-spaced, nondirectional antenna is mounted at a COR AGL of 92 meters, 305 meters AMSL, 94 meters HAAT, calculated using the GLOBE 30 second terrain database using 360 radials (E-4), and will operate at 6.0 kW ERP. WPZS(FM) will continue to place a 70 dBu contour over the Indian Trail, NC community of license, as shown in Exhibit E-5.

RF Exposure Calculation:

The RF contribution of the WPZS(FM) modification was calculated using the FMModel program (exhibit E-6). The resulting value is $29.48 \mu\text{W}/\text{cm}^2$ at a distance of 22 meters from the base of the tower, which is below the $1000 \mu\text{W}/\text{cm}^2$ maximum permissible (3%) for occupational, controlled exposure.

Conclusion:

It is submitted the minor modification application for WPZS(FM) is in full compliance with the Commission rules and policies.



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E-1 WPZS(FM) Spacing Study

REFERENCE		DISPLAY DATES
35 07 29.0 N.	CLASS = A	DATA 08-24-17
80 43 30.0 W.	Current Spacings to 3rd Adj.	SEARCH 08-24-17
----- Channel 265 - 100.9 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin
WPZS	LIC 265A	Indian Trail	NC	0.0	0.00	114.5	-114.5
WYMY	LIC 266C0	Burlington	NC	51.7	147.23	151.5	-4.3 (1)
WIFM-FM	LIC-N 265A	Elkin	NC	355.2	119.42	114.5	4.9
WROQ	LIC-D 266C1	Anderson	SC	249.8	150.85	132.5	18.4
WROQ	CP -D 266C1	Anderson	SC	249.8	150.85	132.5	18.4
WSTS	LIC 265C2	Fairmont	NC	119.7	188.96	165.5	23.5
WWDM	LIC-D 267C	Sumter	SC	178.1	119.16	94.5	24.7
WMKS	LIC 262C	High Point	NC	40.7	124.26	94.5	29.8
WRBK	LIC-D 212C3	Richburg	SC	209.8	54.79	11.5	43.3

All separation margins include rounding

(1) WPZS(FM) is to be designated as a 73.215(c) short-spaced facility.

E-2 WPZS(FM) 265A Interference Plot to WYMY(FM) 266C0 Max. Class

FMCommander Single Allocation Study - 08-24-2017 - GLOBE 30 Sec
WPZS's Overlaps (In= 0.0 km, Out= 0.0 km)

WPZS CH 265 A

Lat= 35 07 29.0, Lng= 80 43 30.0

6.0 kW 94 m HAAT, 305 m COR

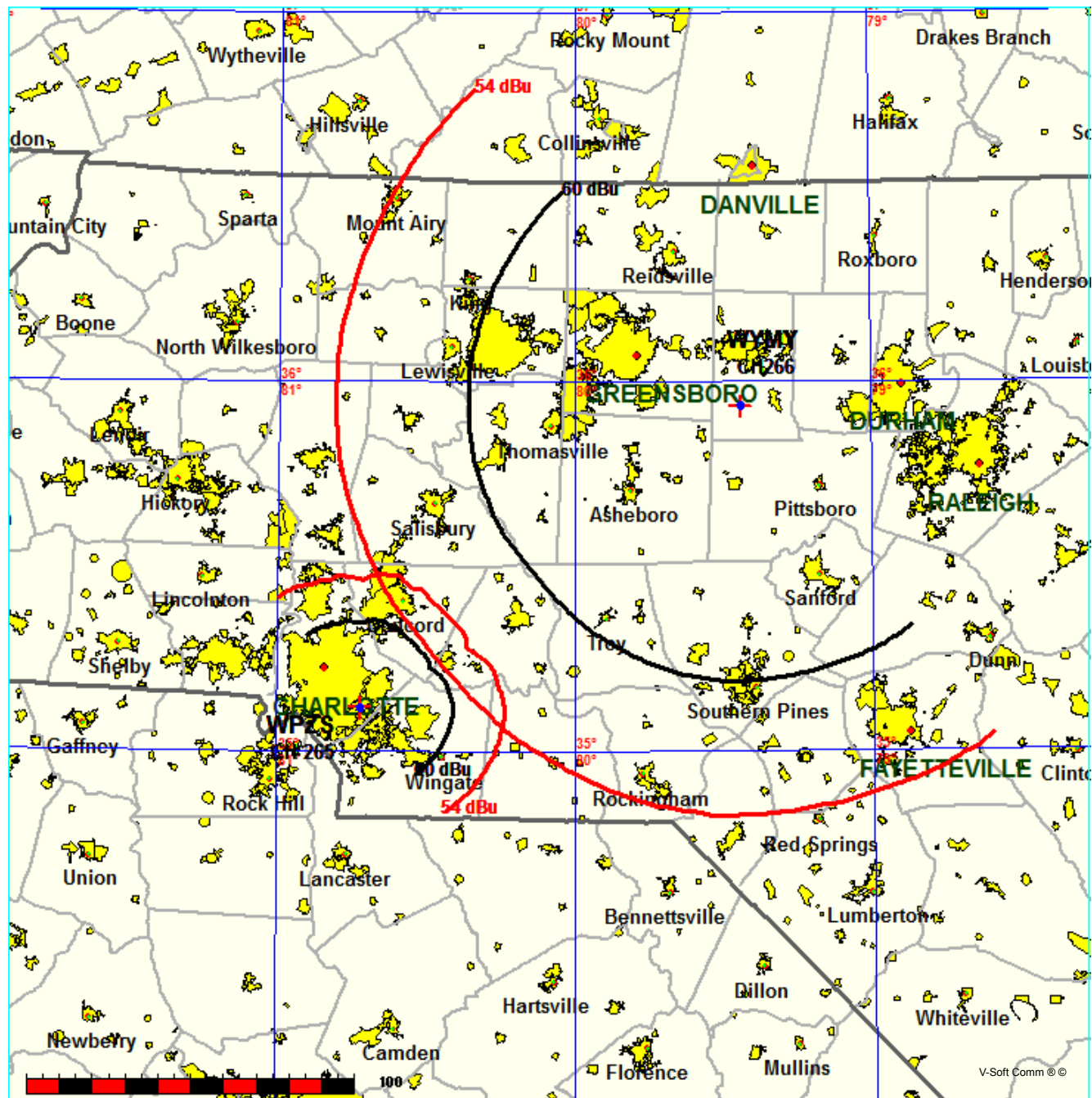
Prot.= 60 dBu, Intef.= 54 dBu

WYMY^ CH 266 C0 BMLH20140908AEE

Lat= 35 56 15.0, Lng= 79 26 30.0

Max Cls: 100.0 kW 450 m HAAT, 642.2 m COR

Prot.= 60 dBu, Intef.= 54 dBu



E-3 WPZS(FM) FMOver Analysis to WYMY(FM) 266C0

WPZS

WYMY BMLH20140908AEE

Channel = 265A

Max ERP = 6 kW

RCAMSL = 305 m

N. Lat. 35 07 29.0

W. Lng. 80 43 30.0

Protected

60 dBu

Terrain Data: GLOBE 30 Sec

Channel = 266C0

Max ERP = 100 kW

RCAMSL = 550.7 m

N. Lat. 35 56 15.0

W. Lng. 79 26 30.0

Interfering

54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
352.0	006.0000	0081.0	025.6	241.8	100.0000	0337.6	136.0	47.71	
353.0	006.0000	0080.3	025.5	241.7	100.0000	0337.4	135.7	47.79	
354.0	006.0000	0079.1	025.3	241.6	100.0000	0337.2	135.3	47.86	
355.0	006.0000	0078.1	025.2	241.5	100.0000	0337.1	135.0	47.93	
356.0	006.0000	0077.5	025.1	241.4	100.0000	0336.9	134.6	48.01	
357.0	006.0000	0077.1	025.0	241.2	100.0000	0336.8	134.2	48.08	
358.0	006.0000	0076.7	025.0	241.1	100.0000	0336.6	133.9	48.16	
359.0	006.0000	0076.1	024.9	241.0	100.0000	0336.5	133.5	48.23	
000.0	006.0000	0075.4	024.8	240.9	100.0000	0336.3	133.2	48.30	
001.0	006.0000	0074.8	024.7	240.8	100.0000	0336.1	132.9	48.37	
002.0	006.0000	0074.9	024.7	240.7	100.0000	0336.0	132.5	48.45	
003.0	006.0000	0076.0	024.9	240.6	100.0000	0335.9	132.0	48.55	
004.0	006.0000	0077.7	025.1	240.6	100.0000	0335.9	131.6	48.66	
005.0	006.0000	0079.3	025.4	240.6	100.0000	0335.9	131.1	48.77	
006.0	006.0000	0080.2	025.5	240.5	100.0000	0335.8	130.6	48.87	
007.0	006.0000	0081.2	025.7	240.5	100.0000	0335.7	130.2	48.97	
008.0	006.0000	0082.1	025.8	240.4	100.0000	0335.6	129.7	49.07	
009.0	006.0000	0083.1	025.9	240.3	100.0000	0335.5	129.3	49.16	
010.0	006.0000	0083.9	026.0	240.2	100.0000	0335.3	128.9	49.25	
011.0	006.0000	0083.8	026.0	240.1	100.0000	0335.1	128.5	49.32	
012.0	006.0000	0083.3	026.0	239.9	100.0000	0334.9	128.3	49.38	
013.0	006.0000	0083.5	026.0	239.8	100.0000	0334.7	127.9	49.46	
014.0	006.0000	0084.3	026.1	239.7	100.0000	0334.5	127.5	49.54	
015.0	006.0000	0085.2	026.2	239.6	100.0000	0334.4	127.1	49.63	
016.0	006.0000	0086.0	026.3	239.5	100.0000	0334.2	126.7	49.71	
017.0	006.0000	0086.2	026.4	239.3	100.0000	0333.9	126.4	49.78	
018.0	006.0000	0085.3	026.3	239.1	100.0000	0333.6	126.1	49.82	
019.0	006.0000	0083.8	026.0	238.9	100.0000	0333.2	126.0	49.83	
020.0	006.0000	0082.1	025.8	238.7	100.0000	0332.8	125.9	49.84	
021.0	006.0000	0080.9	025.6	238.5	100.0000	0332.4	125.8	49.85	
022.0	006.0000	0080.2	025.5	238.3	100.0000	0332.0	125.6	49.88	
023.0	006.0000	0079.5	025.4	238.1	100.0000	0331.6	125.5	49.91	
024.0	006.0000	0078.9	025.3	237.9	100.0000	0331.2	125.3	49.93	
025.0	006.0000	0078.7	025.3	237.7	100.0000	0330.9	125.1	49.97	
026.0	006.0000	0079.3	025.4	237.5	100.0000	0330.6	124.8	50.03	
027.0	006.0000	0080.7	025.6	237.4	100.0000	0330.3	124.4	50.11	

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
028.0	006.0000	0082.0	025.8	237.3	100.0000	0330.0	124.0	50.18
029.0	006.0000	0082.4	025.8	237.1	100.0000	0329.6	123.7	50.23
030.0	006.0000	0081.3	025.7	236.9	100.0000	0329.2	123.7	50.23
031.0	006.0000	0079.8	025.4	236.7	100.0000	0328.7	123.7	50.21
032.0	006.0000	0078.4	025.2	236.4	100.0000	0328.2	123.7	50.19
033.0	006.0000	0077.6	025.1	236.2	100.0000	0327.8	123.6	50.19
034.0	006.0000	0077.0	025.0	236.0	100.0000	0327.4	123.5	50.20
035.0	006.0000	0076.6	025.0	235.8	100.0000	0327.1	123.4	50.20
036.0	006.0000	0076.2	024.9	235.6	100.0000	0326.7	123.3	50.21
037.0	006.0000	0076.1	024.9	235.4	100.0000	0326.4	123.2	50.23
038.0	006.0000	0076.5	025.0	235.2	100.0000	0326.1	123.0	50.26
039.0	006.0000	0076.9	025.0	235.1	100.0000	0325.8	122.9	50.29
040.0	006.0000	0076.7	025.0	234.9	100.0000	0325.6	122.8	50.30
041.0	006.0000	0076.0	024.9	234.6	100.0000	0325.3	122.8	50.29
042.0	006.0000	0075.4	024.8	234.4	100.0000	0325.1	122.8	50.28
043.0	006.0000	0075.3	024.8	234.2	100.0000	0324.9	122.7	50.29
044.0	006.0000	0075.4	024.8	234.0	100.0000	0324.7	122.6	50.30
045.0	006.0000	0075.5	024.8	233.8	100.0000	0324.5	122.5	50.32
046.0	006.0000	0075.5	024.8	233.6	100.0000	0324.4	122.5	50.32
047.0	006.0000	0075.3	024.8	233.4	100.0000	0324.2	122.5	50.32
048.0	006.0000	0075.2	024.8	233.2	100.0000	0324.1	122.4	50.32
049.0	006.0000	0075.4	024.8	233.0	100.0000	0324.0	122.4	50.33
050.0	006.0000	0075.8	024.8	232.8	100.0000	0323.9	122.3	50.35
051.0	006.0000	0076.4	024.9	232.6	100.0000	0323.8	122.2	50.36
052.0	006.0000	0076.9	025.0	232.4	100.0000	0323.7	122.1	50.38
053.0	006.0000	0077.3	025.1	232.2	100.0000	0323.6	122.1	50.39
054.0	006.0000	0077.6	025.1	232.0	100.0000	0323.5	122.0	50.39
055.0	006.0000	0077.7	025.1	231.8	100.0000	0323.4	122.0	50.38
056.0	006.0000	0077.5	025.1	231.6	100.0000	0323.3	122.1	50.37
057.0	006.0000	0077.1	025.0	231.4	100.0000	0323.3	122.2	50.34
058.0	006.0000	0076.2	024.9	231.2	100.0000	0323.3	122.4	50.30
059.0	006.0000	0074.9	024.7	231.0	100.0000	0323.2	122.6	50.25
060.0	006.0000	0073.5	024.5	230.8	100.0000	0323.2	122.9	50.18
061.0	006.0000	0072.4	024.3	230.7	100.0000	0323.2	123.2	50.13
062.0	006.0000	0072.2	024.3	230.5	100.0000	0323.2	123.3	50.10
063.0	006.0000	0073.0	024.4	230.3	100.0000	0323.2	123.3	50.11
064.0	006.0000	0074.7	024.7	230.0	100.0000	0323.2	123.1	50.14
065.0	006.0000	0076.7	025.0	229.8	100.0000	0323.2	122.9	50.18
066.0	006.0000	0078.6	025.3	229.6	100.0000	0323.2	122.8	50.21
067.0	006.0000	0080.2	025.5	229.3	100.0000	0323.2	122.7	50.23
068.0	006.0000	0081.8	025.7	229.1	100.0000	0323.1	122.6	50.25
069.0	006.0000	0083.8	026.0	228.9	100.0000	0323.1	122.5	50.27
070.0	006.0000	0085.7	026.3	228.6	100.0000	0323.1	122.4	50.29
071.0	006.0000	0087.6	026.6	228.4	100.0000	0323.0	122.4	50.30
072.0	006.0000	0089.3	026.8	228.1	100.0000	0323.0	122.3	50.31
073.0	006.0000	0090.6	027.0	227.9	100.0000	0323.0	122.4	50.30
074.0	006.0000	0091.7	027.2	227.7	100.0000	0323.0	122.4	50.29
075.0	006.0000	0092.4	027.3	227.4	100.0000	0323.0	122.6	50.26
076.0	006.0000	0093.0	027.3	227.2	100.0000	0323.1	122.7	50.22
077.0	006.0000	0093.5	027.4	227.0	100.0000	0323.2	122.9	50.19
078.0	006.0000	0094.0	027.5	226.8	100.0000	0323.3	123.1	50.15

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
079.0	006.0000	0094.4	027.5	226.6	100.0000	0323.4	123.3	50.11
080.0	006.0000	0094.6	027.6	226.4	100.0000	0323.6	123.5	50.06
081.0	006.0000	0094.9	027.6	226.2	100.0000	0323.8	123.8	50.01
082.0	006.0000	0095.7	027.7	226.0	100.0000	0324.0	124.0	49.98
083.0	006.0000	0096.4	027.8	225.8	100.0000	0324.3	124.2	49.94
084.0	006.0000	0097.3	027.9	225.6	100.0000	0324.5	124.4	49.90
085.0	006.0000	0098.2	028.1	225.4	100.0000	0324.7	124.6	49.86
086.0	006.0000	0099.0	028.2	225.2	100.0000	0325.0	124.9	49.81
087.0	006.0000	0100.1	028.3	225.0	100.0000	0325.2	125.1	49.77
088.0	006.0000	0100.8	028.4	224.8	100.0000	0325.4	125.4	49.72
089.0	006.0000	0101.6	028.5	224.6	100.0000	0325.6	125.6	49.66
090.0	006.0000	0102.3	028.6	224.4	100.0000	0325.8	125.9	49.60
091.0	006.0000	0103.1	028.7	224.2	100.0000	0325.9	126.2	49.54
092.0	006.0000	0103.6	028.8	224.0	100.0000	0326.1	126.5	49.48
093.0	006.0000	0103.4	028.7	223.9	100.0000	0326.2	126.9	49.39
094.0	006.0000	0103.2	028.7	223.8	100.0000	0326.3	127.4	49.30
095.0	006.0000	0102.9	028.7	223.6	100.0000	0326.4	127.8	49.21
096.0	006.0000	0102.8	028.7	223.5	100.0000	0326.5	128.2	49.12
097.0	006.0000	0102.5	028.6	223.4	100.0000	0326.5	128.6	49.03
098.0	006.0000	0102.1	028.6	223.3	100.0000	0326.6	129.0	48.94
099.0	006.0000	0101.9	028.5	223.2	100.0000	0326.6	129.5	48.84
100.0	006.0000	0101.6	028.5	223.1	100.0000	0326.7	129.9	48.74
101.0	006.0000	0101.5	028.5	222.9	100.0000	0326.8	130.3	48.65
102.0	006.0000	0101.5	028.5	222.8	100.0000	0326.8	130.8	48.56
103.0	006.0000	0101.5	028.5	222.7	100.0000	0326.8	131.2	48.46
104.0	006.0000	0101.4	028.5	222.6	100.0000	0326.9	131.6	48.37
105.0	006.0000	0101.1	028.4	222.5	100.0000	0326.9	132.1	48.27
106.0	006.0000	0100.7	028.4	222.5	100.0000	0327.0	132.6	48.16
107.0	006.0000	0100.2	028.3	222.4	100.0000	0327.0	133.0	48.06
108.0	006.0000	0100.0	028.3	222.3	100.0000	0327.0	133.5	47.96
109.0	006.0000	0100.0	028.3	222.3	100.0000	0327.1	134.0	47.86
110.0	006.0000	0099.9	028.3	222.2	100.0000	0327.1	134.4	47.76
111.0	006.0000	0099.7	028.3	222.1	100.0000	0327.2	134.9	47.66

E-4 WPZS(FM) GLOBE Terrain HAAT Calculation

Latitude **35° 7' 29"** North
Longitude **80° 43' 30"** West (NAD 27)

These coordinates convert to NAD 83 coordinates of
35° 07' 29.53", North, 80° 43' 29.25" West (NAD 83).

Height of antenna radiation center above mean sea level: **305 meters AMSL**

Number of Evenly Spaced Radials = **360** 0° is referenced to True North

Results

Calculated HAAT = **94 meters**

Antenna Height Above Average Terrain calculated
using 1 km [GLOBE terrain data](#)

Individual "Radial HAAT" Values, in meters

0°	76.0 m	120°	95.9 m	240°	118.3 m
1°	75.4 m	121°	95.3 m	241°	118.8 m
2°	75.4 m	122°	94.5 m	242°	119.2 m
3°	76.6 m	123°	94.1 m	243°	119.3 m
4°	78.2 m	124°	94.1 m	244°	119.6 m
5°	79.7 m	125°	94.4 m	245°	119.9 m
6°	80.6 m	126°	94.7 m	246°	119.9 m
7°	81.6 m	127°	94.8 m	247°	120.0 m
8°	82.5 m	128°	94.4 m	248°	120.2 m
9°	83.4 m	129°	93.7 m	249°	120.3 m
10°	84.2 m	130°	92.9 m	250°	120.4 m
11°	84.1 m	131°	92.2 m	251°	120.2 m
12°	83.7 m	132°	91.8 m	252°	119.9 m
13°	83.9 m	133°	91.6 m	253°	120.0 m
14°	84.7 m	134°	91.4 m	254°	120.3 m
15°	85.6 m	135°	91.3 m	255°	120.3 m
16°	86.3 m	136°	91.1 m	256°	120.4 m
17°	86.4 m	137°	90.8 m	257°	120.5 m
18°	85.4 m	138°	90.4 m	258°	120.3 m
19°	83.8 m	139°	90.2 m	259°	119.8 m
20°	82.0 m	140°	90.3 m	260°	119.1 m
21°	80.9 m	141°	90.5 m	261°	117.9 m
22°	80.1 m	142°	90.8 m	262°	117.0 m
23°	79.5 m	143°	91.1 m	263°	115.8 m
24°	78.9 m	144°	91.2 m	264°	114.3 m
25°	78.8 m	145°	91.3 m	265°	113.0 m
26°	79.5 m	146°	91.6 m	266°	111.7 m

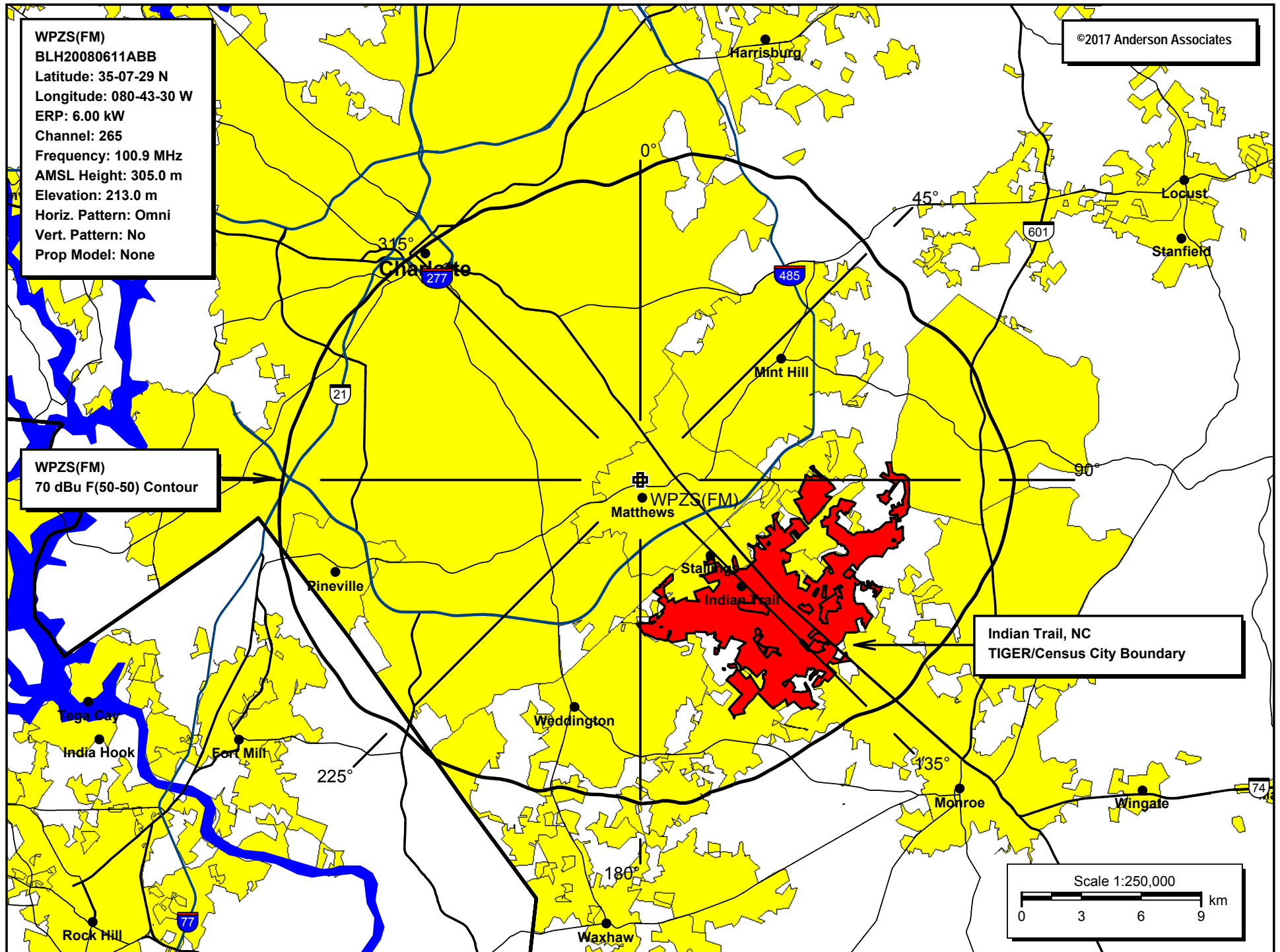
E-4 Continued

27°	80.9 m	147°	92.0 m	267°	110.3 m
28°	82.2 m	148°	92.5 m	268°	109.5 m
29°	82.3 m	149°	93.0 m	269°	109.0 m
30°	81.2 m	150°	93.5 m	270°	108.2 m
31°	79.7 m	151°	93.8 m	271°	107.5 m
32°	78.4 m	152°	94.0 m	272°	106.8 m
33°	77.6 m	153°	94.2 m	273°	105.9 m
34°	77.1 m	154°	94.4 m	274°	104.6 m
35°	76.7 m	155°	94.9 m	275°	103.5 m
36°	76.2 m	156°	95.7 m	276°	102.5 m
37°	76.1 m	157°	96.8 m	277°	101.4 m
38°	76.6 m	158°	97.5 m	278°	100.4 m
39°	76.8 m	159°	97.7 m	279°	99.6 m
40°	76.6 m	160°	97.1 m	280°	99.3 m
41°	75.9 m	161°	96.4 m	281°	99.3 m
42°	75.4 m	162°	95.7 m	282°	99.3 m
43°	75.4 m	163°	95.3 m	283°	99.1 m
44°	75.5 m	164°	95.2 m	284°	98.7 m
45°	75.5 m	165°	95.7 m	285°	98.1 m
46°	75.4 m	166°	96.3 m	286°	97.3 m
47°	75.2 m	167°	97.0 m	287°	96.6 m
48°	75.1 m	168°	97.1 m	288°	96.0 m
49°	75.3 m	169°	97.0 m	289°	95.6 m
50°	75.7 m	170°	97.0 m	290°	95.6 m
51°	76.2 m	171°	97.3 m	291°	95.7 m
52°	76.7 m	172°	97.5 m	292°	96.0 m
53°	77.1 m	173°	96.8 m	293°	96.2 m
54°	77.2 m	174°	95.4 m	294°	96.4 m
55°	77.3 m	175°	94.0 m	295°	96.6 m
56°	77.1 m	176°	93.0 m	296°	96.7 m
57°	76.6 m	177°	92.8 m	297°	96.6 m
58°	75.7 m	178°	92.8 m	298°	96.3 m
59°	74.4 m	179°	92.6 m	299°	95.8 m
60°	73.1 m	180°	91.9 m	300°	95.2 m
61°	72.0 m	181°	91.1 m	301°	94.7 m
62°	71.9 m	182°	90.9 m	302°	94.3 m
63°	72.8 m	183°	90.6 m	303°	94.3 m
64°	74.6 m	184°	90.4 m	304°	94.2 m
65°	76.6 m	185°	89.6 m	305°	93.7 m
66°	78.4 m	186°	89.0 m	306°	93.0 m
67°	80.0 m	187°	88.8 m	307°	92.4 m
68°	81.6 m	188°	89.2 m	308°	91.9 m
69°	83.6 m	189°	89.5 m	309°	91.4 m
70°	85.4 m	190°	89.7 m	310°	91.1 m
71°	87.3 m	191°	89.8 m	311°	90.8 m
72°	88.9 m	192°	89.9 m	312°	90.6 m
73°	90.3 m	193°	90.2 m	313°	90.5 m
74°	91.3 m	194°	91.0 m	314°	90.2 m
75°	92.1 m	195°	91.8 m	315°	90.0 m
76°	92.6 m	196°	92.6 m	316°	89.8 m
77°	93.1 m	197°	93.2 m	317°	89.6 m
78°	93.6 m	198°	93.4 m	318°	89.3 m
79°	94.0 m	199°	93.5 m	319°	88.8 m
80°	94.3 m	200°	93.9 m	320°	88.3 m
81°	94.6 m	201°	94.8 m	321°	87.9 m
82°	95.3 m	202°	96.0 m	322°	87.6 m
83°	96.0 m	203°	97.2 m	323°	87.1 m
84°	96.9 m	204°	98.4 m	324°	86.6 m
85°	97.8 m	205°	99.8 m	325°	86.3 m
86°	98.6 m	206°	101.6 m	326°	86.4 m

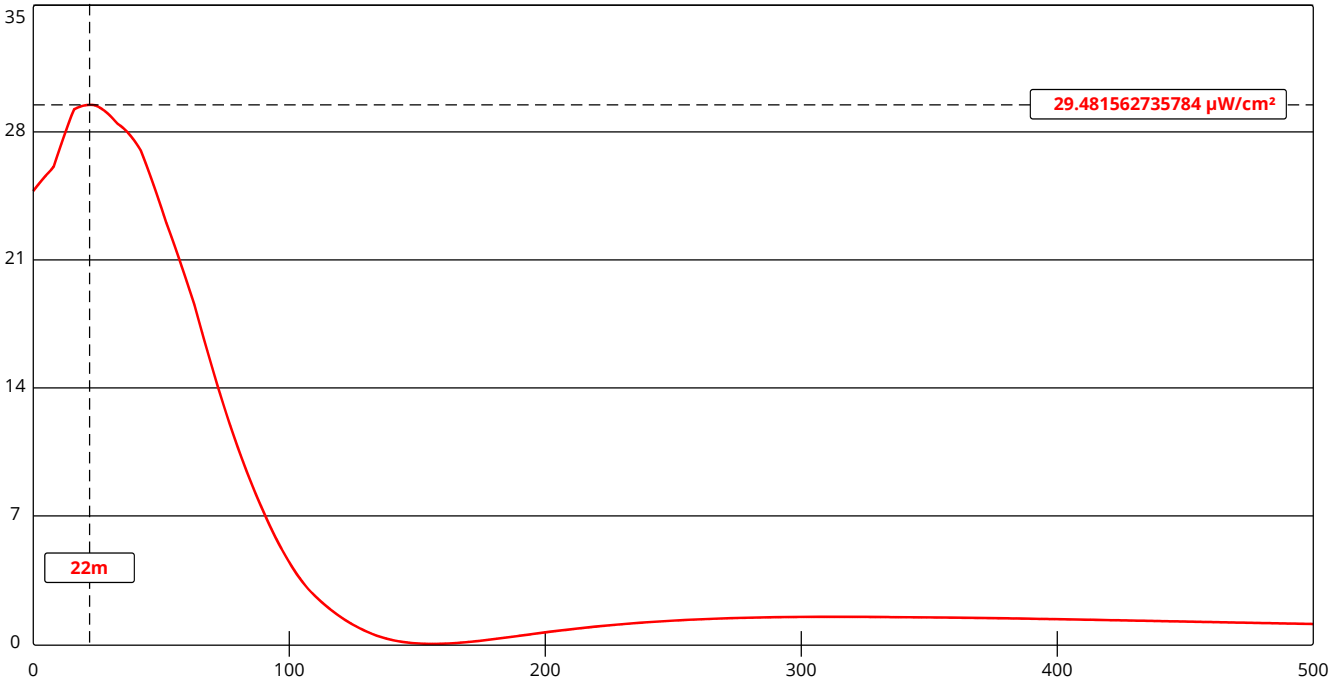
E-4 Continued

87°	99.6 m	207°	103.4 m	327°	86.6 m
88°	100.3 m	208°	104.8 m	328°	86.7 m
89°	101.1 m	209°	106.2 m	329°	86.5 m
90°	101.8 m	210°	107.5 m	330°	86.3 m
91°	102.5 m	211°	108.9 m	331°	86.2 m
92°	103.1 m	212°	109.9 m	332°	85.6 m
93°	102.8 m	213°	110.3 m	333°	84.8 m
94°	102.6 m	214°	110.4 m	334°	83.9 m
95°	102.3 m	215°	110.0 m	335°	83.1 m
96°	102.2 m	216°	109.1 m	336°	82.3 m
97°	102.0 m	217°	107.7 m	337°	81.6 m
98°	101.6 m	218°	106.2 m	338°	81.0 m
99°	101.3 m	219°	104.9 m	339°	80.8 m
100°	101.0 m	220°	103.9 m	340°	80.8 m
101°	101.0 m	221°	103.1 m	341°	81.0 m
102°	100.9 m	222°	102.8 m	342°	81.1 m
103°	100.9 m	223°	103.2 m	343°	81.0 m
104°	100.8 m	224°	104.0 m	344°	80.6 m
105°	100.6 m	225°	105.0 m	345°	80.0 m
106°	100.2 m	226°	106.0 m	346°	79.4 m
107°	99.7 m	227°	106.8 m	347°	79.2 m
108°	99.5 m	228°	107.5 m	348°	80.0 m
109°	99.5 m	229°	108.0 m	349°	81.2 m
110°	99.4 m	230°	108.5 m	350°	81.9 m
111°	99.3 m	231°	109.1 m	351°	81.9 m
112°	98.9 m	232°	110.0 m	352°	81.5 m
113°	98.5 m	233°	111.0 m	353°	80.8 m
114°	98.1 m	234°	111.9 m	354°	79.6 m
115°	97.5 m	235°	113.0 m	355°	78.7 m
116°	97.0 m	236°	114.4 m	356°	78.1 m
117°	96.6 m	237°	115.8 m	357°	77.7 m
118°	96.4 m	238°	116.9 m	358°	77.2 m
119°	96.2 m	239°	117.6 m	359°	76.6 m

E-5 WPZS(FM) 70 dBu Contour Plot



FM Model



Channel Selection	Channel 265 (100.9 MHz)		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other"		
Height (m)	92	Distance (m)	500
ERP-H (W)	6000	ERP-V (W)	6000
Num of Elements	2	Element Spacing (λ)	1
Num of Points	500		

E-7 WPZS(FM) Tower ASR

ASR Registration 1036617

Registration Detail

Reg Number	1036617	Status	Constructed
File Number	A0788482	Constructed	10/19/2012
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

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

Location (in NAD83 Coordinates)

Lat/Long	35-07-30.0 N 080-43-29.0 W	Address	509 Team Road
City, State	MATTHEWS , NC		
Zip	28105	County	MECKLENBURG
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
213.0	121.9
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
334.9	115.8

Painting and Lighting Specifications

FAA Chapters 4, 5, 6, 8, 13

Paint and Light in Accordance with FAA Circular Number 70/7460-1J

FAA Notification

FAA Study	2012-ASO-3272-OE	FAA Issue Date	05/11/2012
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Owner & Contact Information

FRN	0002150852	Owner Entity Type
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Owner

CHARLOTTE, CITY OF
Attention To: PAUL WILKERSON
527 SPRATT STREET
CHARLOTTE , NC 28206

P: (704)336-5810
F:
E: pwilkerson@ci.charlotte.nc.us

Contact

Orndorff , Kay
517 Sachs Road
Gettysburg , PA 17325

P: (717)334-0910
F:
E: kayorndorff@embarqmail.com

Last Action Status

Status	Constructed	Received	10/22/2012
Purpose	Notification	Entered	10/22/2012
Mode	Interactive		