

TECHNICAL REPORT

MINOR MODIFICATION TO WNOW-FM CONSTRUCTION PERMIT BMPH-20070119ACY

This technical report has been developed in support of a minor modification to the WNOW-FM Channel 287C1 construction permit. Station WNOW-FM was previously granted a change in community of license to Bessemer City, North Carolina at a new transmitter site. In this application, WNOW-FM is remaining at its currently authorized transmitter site and returning to Gaffney, South Carolina, its former and currently licensed community.

Allocations analyses including Longley-Rice prediction of 70 dBu:

Although Station WNOW-FM is not changing its authorized transmitter site, a channel study is provided, as E1, showing clearances to all facilities with the exception of third adjacent Station WKQC on Channel 284C at Charlotte, NC and an application by Station WGOG on Channel 288A.

WNOW-FM and WKQC are pre-1964 grand fathered short-spaced stations, and have been short-spaced since that time. Therefore, this 3rd adjacent channel short-spacing may be ignored in accordance with Section 73.213(a)(4). The existing construction permit at the same site was also granted in accordance with 73.213(a).

The WGOG application specifies contour protection under Section 73.215 with respect to the WNOW-FM CP. Since WNOW-FM is not changing its transmitter site in this application, it does not need to demonstrate contour protection to the WGOG pending application. In addition, WGOG previously changed channels to 288A conditioned on the grant of the WNOW permit (BPH-20080624ABW). Unless WNOW is allowed to remain at its current site, WGOG's earlier channel change to 288A would become invalid and there would be no pending application on Channel 288A to change its community of license at a new transmitter site. Thus, the pending WGOG application should not be an impediment to the WNOW application.

Exhibit E2 demonstrates that the proposed facility provides 70 dBu coverage to Gaffney, SC based on the use of Longley-Rice prediction, and the NED 30 meter terrain

database. Qualification for use of Longley-Rice is established based on a Delta h of 103.5 meters on the 232 radial extending through the center of the city to the far edge of its boundary, and the fact that the predicted mean occurrence Longley-Rice 70 dBu exceeds the FCC predicted value more than 10% on each degree of azimuth across the city. The Delta h determination on the 232 degree radial is documented in E2A, and the Longley-Rice and FCC 70 dBu contours are tabulated in E2B. Mean occurrence Longley-Rice calculations were performed using the V-Soft Probe 3 software and the V-Soft provided NED 30 meter terrain database. Both have been accepted in Commission allocations determinations.

E3 tabulates the service contours, and E3A provides HAAT reference data for all 360 degrees of azimuth based on the use of the NED 30 meter terrain database.

An ERP of 51 kW is proposed based on the HAAT of 395 meters yielding a 60 dBu contour of 72.39 km which rounds to the class maximum of 72 km.

RF Exposure Calculation:

The RF contribution of the 51 kW facility was calculated to be $3.06 \mu\text{Watts}/\text{cm}^2$. This is below the 5% threshold of the maximum permissible $200 \mu\text{Watts}/\text{cm}^2$ exposure for general population/uncontrolled exposure, allowing exclusion from consideration. A worst case vertical (F) factor of .4 was used in the formula (see attached vertical elevation plot) from the OET Bulletin 65:

$$S \text{ (RF in microwatts/cm}^2\text{)} = \frac{33.4 \times F^2 \times (H \text{ ERP} + V \text{ ERP in watts})}{R^2 \text{ (distance to radiation center in meters}^2\text{)}}$$

VI. Conclusion:

It is concluded that the proposed modification to the WNOW-FM construction permit is in full compliance with Commission rules and policies.



Charles M. Anderson

March 27, 2010

E1 WNOWFM CHANNEL STUDY

REFERENCE

35 21 51.0 N.

CLASS = C1

DISPLAY DATES

DATA 03-25-10

81 11 13.0 W.

Current Spacings to 3rd Adj.

SEARCH 03-25-10

----- Channel 287 - 105.3 MHz -----

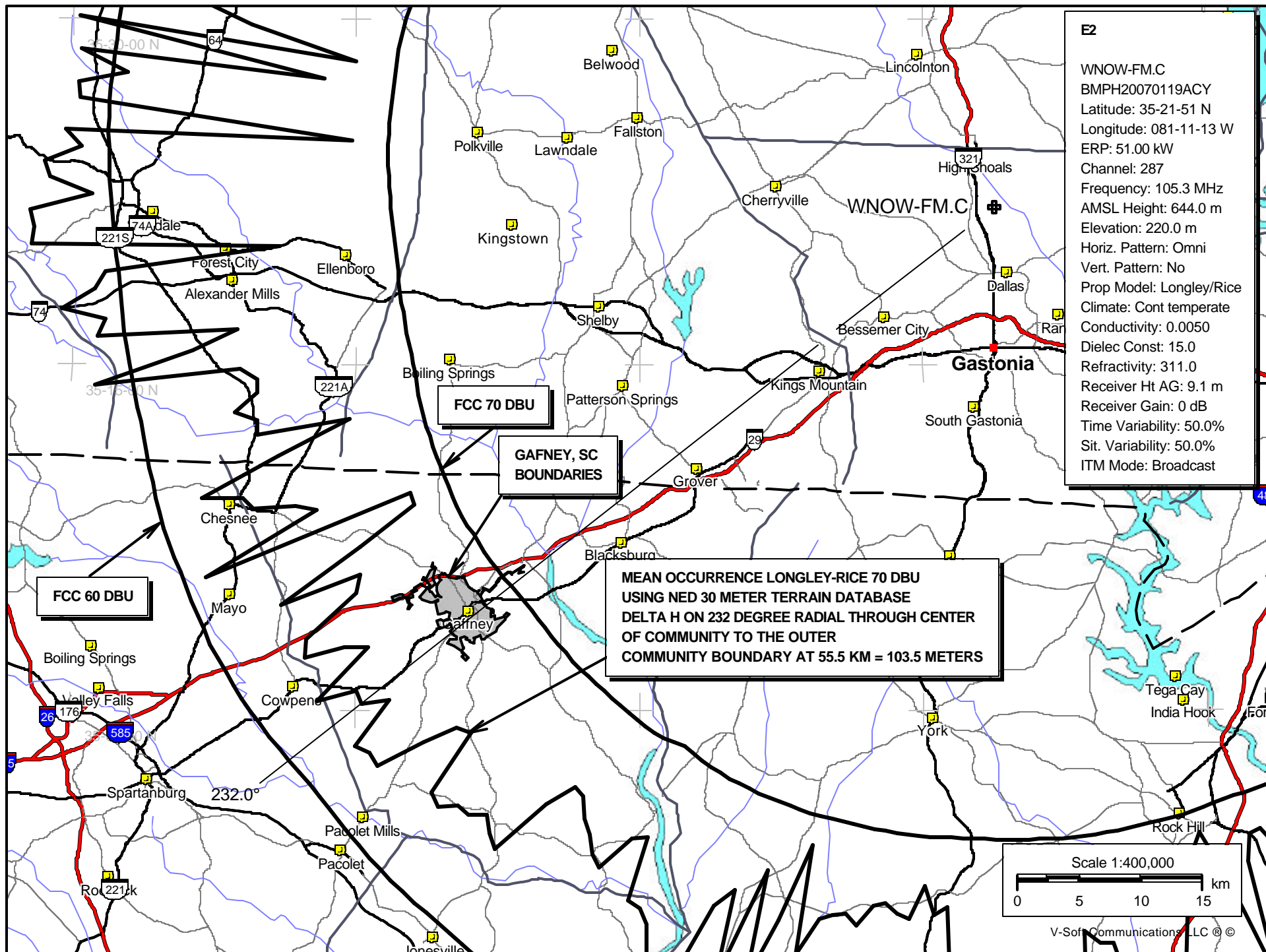
Call		Channel	Location		Azi	Dist	FCC	Margin
WNOW-FM	APP-N	287C1	Bessemer City	NC	0.0	0.0	244.5	-244.5
WNOW-FM	LIC	287C0	Gaffney	SC	276.2	53.7	258.5	-204.8
WNOW-FM	CP -Z	287C1	Bessemer City	NC	0.0	0.0	244.5	-244.5
WKQC	LIC-D	284C	Charlotte	NC	105.3	47.2	104.5	-57.3(1)

- (1) WNOW-FM and WKQC are Pre 1964 grand fathered short-spaced stations, and have been short spaced at all times since then. Therefore, this third adjacent short-spacing may be ignored.

WGOG	APP-N	288A	Powdersville	SC	243.8	130.7	132.5	-1.8(2)
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- (2) WGOG elected 73.215 to WNOW-FM.

WGOG	RSV	288A	Powdersville	SC	246.2	132.5	132.5	0.00
WSGC-FM	CP -N	287C3	Tignall	GA	223.9	210.7	210.5	0.18
WBRW	LIC-Z	287C3	Blacksburg	VA	17.1	211.9	210.5	1.4
WGFG	LIC-Z	287C3	Branchville	SC	170.6	216.0	210.5	5.5
1359477	APP	287A	St. Marys	WV	0.1	211.4	199.5	12.0
WDAR-FM	LIC-N	288C3	Darlington	SC	134.1	166.2	143.5	22.7
WFJA	LIC-N	288A	Sanford	NC	86.5	170.6	132.5	38.1
WODR	LIC-N	287C3	Fair Bluff	NC	118.2	248.9	210.5	38.4
WDCG	LIC-N	286C1	Durham	NC	79.0	218.3	176.5	41.8
WZKQ-LP	LIC	287L1	Hodges	SC	218.6	154.2	110.5	43.7
WGOG	CP -N	288A	Walhalla	SC	252.3	179.6	132.5	47.1
WMKS	LIC-N	289C1	Clemmons	NC	32.8	133.9	81.5	52.4
WNOK	LIC-D	284C1	Columbia	SC	169.3	137.0	81.5	55.5
WTMT	CP	290C2	Weaverville	NC	281.7	135.5	78.5	57.0
WPDT	APP	286C3	Coward	SC	142.2	202.8	143.5	59.3
WPDT	CP -N	286C3	Coward	SC	141.5	202.8	143.5	59.3
WGTH-FM	LIC	288A	Richlands	VA	345.5	205.6	132.5	73.1
WTMT	LIC	290C2	Weaverville	NC	284.7	154.1	78.5	75.6
R62247	ADD	290C2	Weaverville	NC	288.9	156.6	78.5	78.1
WSGC-FM	LIC	286A	Elberton	GA	223.9	210.7	132.5	78.2



E2B
TABULATION OF FCC AND LONGLEY-RICE
70 DBU CONTOURS OVER ARC OF GAFFNEY, SC

Call Letters: WNOW-FM.C
File Number: BMPH20070119ACY
Latitude: 35-21-51 N
Longitude: 081-11-13 W
ERP: 51.00 kW
Channel: 287
Frequency: 105.3 MHz
AMSL Height: 644.0 m
Elevation: 220.0 m
HAAT: 395.37 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No

Type of contour: Signal Calculated

of Radials Calculated: 360

Using the mean occurrence method at 70.0 dBu

Bearing (deg)	FCC 70 dBu Km	Longley-Rice 70 dBu km	% Increase	HAAT meters
229.0	49.3	66.5	34.9	378.5
230.0	49.2	67.1	37.1	377.2
231.0	49.2	62.6	27.2	378.5
232.0	49.3	64.6	31.0	379.3
233.0	49.3	64.3	30.0	380.3
234.0	49.3	67.3	36.5	382.7
235.0	49.3	61.4	24.5	384.2
236.0	49.4	63.0	27.5	384.9
237.0	49.4	66.1	33.8	384.5
238.0	49.4	65.2	32.0	384.3

E2C
TABULATION OF FCC
70 DBU CONTOUR OVER ARC OF GAFFNEY, SC

Call Letters: WNOW-FM.C
File Number: BMPH20070119ACY
Latitude: 35-21-51 N
Longitude: 081-11-13 W
ERP: 51.00 kW
Channel: 287
Frequency: 105.3 MHz
AMSL Height: 644.0 m
Elevation: 220.0 m
HAAT: 395.37 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: 70.00 dBuV/m

Primary Terrain: FCC 30 Second US Database
Secondary Terrain: V-Soft 3 Second US Terrain

Bearing (deg)	Distance (km)	HAAT (m)
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229.0	49.3	387.9
230.0	49.2	387.4
231.0	49.2	387.5
232.0	49.3	387.9
233.0	49.3	388.7
234.0	49.3	389.7
235.0	49.4	390.6
236.0	49.4	391.1
237.0	49.4	390.7
238.0	49.4	390.1

E3 HAAT AND CONTOUR TABULATION

N. Lat. = 352151.0 W. Lng. = 811113.0
HAAT and Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - NED 30 Meter

Azi.	AV EL	HAAT	ERP kW	70-F5	60-F5
000	269.5	374.5	51.0000	48.52	70.96
045	255.5	388.5	51.0000	49.28	71.93
090	225.5	418.5	51.0000	50.90	74.06
135	215.9	428.1	51.0000	51.43	74.76
180	232.7	411.3	51.0000	50.51	73.54
225	257.5	386.5	51.0000	49.17	71.79
270	279.6	364.4	51.0000	47.94	70.25
315	252.9	391.1	51.0000	49.42	72.11

Ave El= 248.63 M HAAT= 395.37 M AMSL= 644.0

E3A
360 DEGREE HAAT TABULATION PROVIDED AS REFERENCE
USING NED 30 METER TERRAIN

N. Lat. = 352151.0 W. Lng. = 811113.0
 HAAT and Distance to Contour,
 FCC, FM 2-10 Mi, 51 pts Method - NED 30 Meter

Azi.	AV EL	HAAT	ERP kW	70-F5	60-F5
000	269.5	374.5	51.0000	48.52	70.96
001	270.1	373.9	51.0000	48.48	70.91
002	268.6	375.4	51.0000	48.57	71.01
003	268.4	375.6	51.0000	48.58	71.03
004	266.4	377.6	51.0000	48.69	71.17
005	265.8	378.2	51.0000	48.73	71.22
006	264.1	379.9	51.0000	48.81	71.33
007	261.6	382.4	51.0000	48.95	71.50
008	260.4	383.6	51.0000	49.02	71.59
009	261.0	383.0	51.0000	48.98	71.55
010	258.4	385.6	51.0000	49.13	71.73
011	256.9	387.1	51.0000	49.20	71.83
012	253.6	390.4	51.0000	49.39	72.07
013	251.8	392.2	51.0000	49.48	72.19
014	250.7	393.3	51.0000	49.54	72.26
015	254.4	389.6	51.0000	49.34	72.01
016	258.0	386.0	51.0000	49.14	71.75
017	258.9	385.1	51.0000	49.10	71.69
018	258.0	386.0	51.0000	49.15	71.76
019	258.4	385.6	51.0000	49.12	71.73
020	256.6	387.4	51.0000	49.22	71.85
021	255.9	388.1	51.0000	49.26	71.90
022	253.1	390.9	51.0000	49.41	72.10
023	252.1	391.9	51.0000	49.46	72.16
024	253.0	391.0	51.0000	49.42	72.10
025	253.7	390.3	51.0000	49.38	72.06
026	252.3	391.7	51.0000	49.45	72.15
027	250.2	393.8	51.0000	49.57	72.30
028	249.3	394.7	51.0000	49.62	72.37
029	248.6	395.4	51.0000	49.66	72.41
030	246.9	397.1	51.0000	49.75	72.53
031	246.3	397.7	51.0000	49.78	72.57
032	245.9	398.1	51.0000	49.80	72.60
033	242.3	401.7	51.0000	50.00	72.86
034	244.9	399.1	51.0000	49.85	72.67
035	249.1	394.9	51.0000	49.63	72.37
036	250.4	393.6	51.0000	49.56	72.29
037	252.8	391.2	51.0000	49.43	72.12
038	254.3	389.7	51.0000	49.34	72.01
039	257.3	386.7	51.0000	49.19	71.81
040	258.2	385.8	51.0000	49.13	71.74
041	257.2	386.8	51.0000	49.19	71.81
042	257.4	386.6	51.0000	49.18	71.80
043	258.5	385.5	51.0000	49.12	71.72
044	257.0	387.0	51.0000	49.20	71.82

045	255.5	388.5	51.0000	49.28	71.93
046	254.8	389.2	51.0000	49.32	71.98
047	252.1	391.9	51.0000	49.46	72.17
048	250.3	393.7	51.0000	49.56	72.29
049	248.9	395.1	51.0000	49.64	72.39
050	247.9	396.1	51.0000	49.69	72.46
051	244.6	399.4	51.0000	49.87	72.69
052	242.1	401.9	51.0000	50.01	72.87
053	240.9	403.1	51.0000	50.07	72.96
054	240.3	403.7	51.0000	50.10	73.00
055	242.5	401.5	51.0000	49.98	72.84
056	240.8	403.2	51.0000	50.08	72.96
057	240.5	403.5	51.0000	50.09	72.98
058	242.0	402.0	51.0000	50.01	72.88
059	242.5	401.5	51.0000	49.99	72.85
060	244.1	399.9	51.0000	49.90	72.73
061	245.6	398.4	51.0000	49.82	72.62
062	245.4	398.6	51.0000	49.83	72.64
063	245.7	398.3	51.0000	49.81	72.61
064	243.0	401.0	51.0000	49.96	72.81
065	241.4	402.6	51.0000	50.05	72.92
066	241.0	403.0	51.0000	50.07	72.95
067	241.6	402.4	51.0000	50.03	72.90
068	239.7	404.3	51.0000	50.14	73.04
069	238.5	405.5	51.0000	50.20	73.13
070	236.6	407.4	51.0000	50.30	73.26
071	235.2	408.8	51.0000	50.38	73.36
072	235.8	408.2	51.0000	50.35	73.32
073	235.4	408.6	51.0000	50.37	73.35
074	236.4	407.6	51.0000	50.32	73.28
075	235.5	408.5	51.0000	50.36	73.34
076	235.0	409.0	51.0000	50.39	73.37
077	233.2	410.8	51.0000	50.49	73.50
078	233.9	410.1	51.0000	50.45	73.45
079	234.1	409.9	51.0000	50.44	73.44
080	231.6	412.4	51.0000	50.57	73.62
081	230.9	413.1	51.0000	50.61	73.66
082	231.2	412.8	51.0000	50.59	73.64
083	230.7	413.3	51.0000	50.62	73.68
084	231.5	412.5	51.0000	50.58	73.63
085	232.7	411.3	51.0000	50.52	73.54
086	232.3	411.7	51.0000	50.54	73.57
087	231.2	412.8	51.0000	50.60	73.64
088	229.1	414.9	51.0000	50.71	73.80
089	227.8	416.2	51.0000	50.78	73.89
090	225.5	418.5	51.0000	50.90	74.06
091	223.3	420.7	51.0000	51.02	74.22
092	224.4	419.6	51.0000	50.96	74.13
093	225.8	418.2	51.0000	50.89	74.03
094	228.2	415.8	51.0000	50.76	73.86
095	228.7	415.3	51.0000	50.73	73.82
096	227.3	416.7	51.0000	50.81	73.93
097	224.7	419.3	51.0000	50.95	74.11
098	222.2	421.8	51.0000	51.08	74.29
099	223.0	421.0	51.0000	51.04	74.24
100	225.3	418.7	51.0000	50.91	74.07
101	225.2	418.8	51.0000	50.92	74.08

102	227.2	416.8	51.0000	50.81	73.93
103	226.6	417.4	51.0000	50.85	73.98
104	226.4	417.6	51.0000	50.86	73.99
105	224.7	419.3	51.0000	50.95	74.12
106	225.1	418.9	51.0000	50.93	74.08
107	223.5	420.5	51.0000	51.01	74.20
108	224.3	419.7	51.0000	50.97	74.15
109	224.1	419.9	51.0000	50.98	74.16
110	226.1	417.9	51.0000	50.88	74.02
111	226.7	417.3	51.0000	50.84	73.97
112	225.7	418.3	51.0000	50.90	74.05
113	223.7	420.3	51.0000	51.00	74.19
114	221.7	422.3	51.0000	51.11	74.33
115	220.7	423.3	51.0000	51.16	74.40
116	221.0	423.0	51.0000	51.15	74.39
117	222.8	421.2	51.0000	51.05	74.25
118	224.4	419.6	51.0000	50.96	74.14
119	224.5	419.5	51.0000	50.96	74.13
120	225.6	418.4	51.0000	50.90	74.05
121	224.6	419.4	51.0000	50.95	74.12
122	224.2	419.8	51.0000	50.98	74.15
123	222.9	421.1	51.0000	51.05	74.25
124	222.3	421.7	51.0000	51.08	74.29
125	223.1	420.9	51.0000	51.03	74.23
126	222.3	421.7	51.0000	51.08	74.29
127	221.0	423.0	51.0000	51.15	74.39
128	222.3	421.7	51.0000	51.08	74.29
129	219.7	424.3	51.0000	51.22	74.48
130	217.1	426.9	51.0000	51.36	74.67
131	216.7	427.3	51.0000	51.38	74.70
132	216.9	427.1	51.0000	51.37	74.68
133	214.9	429.1	51.0000	51.48	74.83
134	217.4	426.6	51.0000	51.34	74.64
135	215.9	428.1	51.0000	51.43	74.76
136	215.0	429.0	51.0000	51.47	74.82
137	216.9	427.1	51.0000	51.37	74.69
138	219.5	424.5	51.0000	51.23	74.49
139	218.9	425.1	51.0000	51.26	74.53
140	222.8	421.2	51.0000	51.05	74.26
141	223.1	420.9	51.0000	51.04	74.23
142	222.9	421.1	51.0000	51.05	74.25
143	225.7	418.3	51.0000	50.90	74.04
144	226.5	417.5	51.0000	50.85	73.99
145	226.8	417.2	51.0000	50.84	73.96
146	226.0	418.0	51.0000	50.88	74.02
147	224.1	419.9	51.0000	50.98	74.16
148	224.3	419.7	51.0000	50.97	74.14
149	225.9	418.1	51.0000	50.88	74.03
150	225.4	418.6	51.0000	50.91	74.06
151	225.5	418.5	51.0000	50.91	74.06
152	226.5	417.5	51.0000	50.85	73.99
153	226.3	417.7	51.0000	50.86	74.00
154	227.7	416.3	51.0000	50.79	73.90
155	227.1	416.9	51.0000	50.82	73.94
156	227.0	417.0	51.0000	50.82	73.95
157	228.1	415.9	51.0000	50.76	73.87
158	228.5	415.5	51.0000	50.74	73.84

159	228.7	415.3	51.0000	50.73	73.83
160	229.8	414.2	51.0000	50.67	73.75
161	229.0	415.0	51.0000	50.71	73.80
162	230.4	413.6	51.0000	50.64	73.70
163	231.2	412.8	51.0000	50.59	73.64
164	231.2	412.8	51.0000	50.60	73.64
165	228.5	415.5	51.0000	50.74	73.84
166	229.7	414.3	51.0000	50.68	73.76
167	231.3	412.7	51.0000	50.59	73.64
168	232.6	411.4	51.0000	50.52	73.54
169	231.7	412.3	51.0000	50.57	73.61
170	230.4	413.6	51.0000	50.64	73.70
171	228.1	415.9	51.0000	50.76	73.87
172	227.6	416.4	51.0000	50.79	73.91
173	227.6	416.4	51.0000	50.79	73.91
174	229.6	414.4	51.0000	50.68	73.76
175	232.3	411.7	51.0000	50.54	73.57
176	232.6	411.4	51.0000	50.52	73.54
177	233.6	410.4	51.0000	50.47	73.47
178	232.9	411.1	51.0000	50.50	73.52
179	232.5	411.5	51.0000	50.52	73.55
180	232.7	411.3	51.0000	50.51	73.54
181	233.0	411.0	51.0000	50.50	73.52
182	233.8	410.2	51.0000	50.46	73.46
183	234.4	409.6	51.0000	50.43	73.42
184	233.8	410.2	51.0000	50.45	73.46
185	232.4	411.6	51.0000	50.53	73.56
186	232.3	411.7	51.0000	50.54	73.57
187	230.1	413.9	51.0000	50.65	73.72
188	228.5	415.5	51.0000	50.74	73.84
189	229.1	414.9	51.0000	50.71	73.80
190	230.6	413.4	51.0000	50.63	73.69
191	231.7	412.3	51.0000	50.57	73.61
192	232.4	411.6	51.0000	50.53	73.56
193	231.2	412.8	51.0000	50.60	73.65
194	230.6	413.4	51.0000	50.63	73.69
195	232.3	411.7	51.0000	50.54	73.56
196	233.7	410.3	51.0000	50.46	73.47
197	234.7	409.3	51.0000	50.41	73.40
198	233.8	410.2	51.0000	50.45	73.46
199	233.8	410.2	51.0000	50.46	73.46
200	232.3	411.7	51.0000	50.54	73.57
201	229.8	414.2	51.0000	50.67	73.74
202	233.8	410.2	51.0000	50.46	73.46
203	236.4	407.6	51.0000	50.32	73.28
204	237.2	406.8	51.0000	50.27	73.21
205	237.6	406.4	51.0000	50.25	73.19
206	235.9	408.1	51.0000	50.34	73.31
207	238.7	405.3	51.0000	50.19	73.11
208	240.6	403.4	51.0000	50.09	72.98
209	242.3	401.7	51.0000	50.00	72.86
210	243.3	400.7	51.0000	49.94	72.78
211	242.6	401.4	51.0000	49.98	72.83
212	240.6	403.4	51.0000	50.09	72.98
213	244.2	399.8	51.0000	49.89	72.72
214	250.1	393.9	51.0000	49.57	72.31
215	249.1	394.9	51.0000	49.63	72.38

216	247.2	396.8	51.0000	49.73	72.51
217	250.5	393.5	51.0000	49.55	72.28
218	248.4	395.6	51.0000	49.66	72.42
219	249.5	394.5	51.0000	49.60	72.35
220	252.1	391.9	51.0000	49.46	72.17
221	255.9	388.1	51.0000	49.26	71.90
222	257.3	386.7	51.0000	49.18	71.80
223	257.6	386.4	51.0000	49.17	71.79
224	255.6	388.4	51.0000	49.28	71.92
225	257.5	386.5	51.0000	49.17	71.79
226	259.2	384.8	51.0000	49.08	71.67
227	262.9	381.1	51.0000	48.88	71.42
228	263.7	380.3	51.0000	48.84	71.36
229	265.5	378.5	51.0000	48.74	71.24
230	266.8	377.2	51.0000	48.67	71.15
231	265.5	378.5	51.0000	48.74	71.23
232	264.7	379.3	51.0000	48.79	71.29
233	263.7	380.3	51.0000	48.84	71.36
234	261.3	382.7	51.0000	48.97	71.53
235	259.8	384.2	51.0000	49.05	71.63
236	259.1	384.9	51.0000	49.09	71.68
237	259.5	384.5	51.0000	49.07	71.65
238	259.7	384.3	51.0000	49.05	71.64
239	258.6	385.4	51.0000	49.12	71.72
240	257.9	386.1	51.0000	49.15	71.76
241	257.3	386.7	51.0000	49.19	71.81
242	258.1	385.9	51.0000	49.14	71.75
243	261.8	382.2	51.0000	48.94	71.49
244	263.5	380.5	51.0000	48.85	71.37
245	266.0	378.0	51.0000	48.72	71.20
246	266.2	377.8	51.0000	48.70	71.18
247	268.4	375.6	51.0000	48.58	71.03
248	270.6	373.4	51.0000	48.46	70.88
249	270.8	373.2	51.0000	48.45	70.87
250	272.3	371.7	51.0000	48.36	70.76
251	275.1	368.9	51.0000	48.20	70.56
252	277.9	366.1	51.0000	48.04	70.37
253	279.4	364.6	51.0000	47.95	70.26
254	277.2	366.8	51.0000	48.08	70.41
255	276.7	367.3	51.0000	48.11	70.45
256	277.1	366.9	51.0000	48.09	70.43
257	278.4	365.6	51.0000	48.01	70.33
258	279.1	364.9	51.0000	47.97	70.28
259	279.9	364.1	51.0000	47.92	70.23
260	280.7	363.3	51.0000	47.88	70.17
261	282.5	361.5	51.0000	47.77	70.04
262	283.1	360.9	51.0000	47.74	70.00
263	284.4	359.6	51.0000	47.66	69.91
264	284.4	359.6	51.0000	47.66	69.91
265	286.0	358.0	51.0000	47.57	69.80
266	285.7	358.3	51.0000	47.58	69.82
267	284.8	359.2	51.0000	47.64	69.88
268	283.5	360.5	51.0000	47.71	69.97
269	281.8	362.2	51.0000	47.81	70.09
270	279.6	364.4	51.0000	47.94	70.25
271	278.0	366.0	51.0000	48.04	70.36
272	275.7	368.3	51.0000	48.17	70.52

273	274.0	370.0	51.0000	48.27	70.64
274	271.3	372.7	51.0000	48.42	70.83
275	269.4	374.6	51.0000	48.53	70.96
276	268.3	375.7	51.0000	48.59	71.04
277	267.4	376.6	51.0000	48.64	71.10
278	267.1	376.9	51.0000	48.65	71.12
279	268.1	375.9	51.0000	48.59	71.05
280	268.0	376.0	51.0000	48.60	71.06
281	266.7	377.3	51.0000	48.68	71.15
282	265.6	378.4	51.0000	48.73	71.23
283	265.1	378.9	51.0000	48.76	71.26
284	264.5	379.5	51.0000	48.79	71.30
285	261.4	382.6	51.0000	48.96	71.52
286	260.8	383.2	51.0000	49.00	71.56
287	261.0	383.0	51.0000	48.99	71.55
288	262.5	381.5	51.0000	48.91	71.44
289	261.2	382.8	51.0000	48.97	71.53
290	261.6	382.4	51.0000	48.95	71.50
291	263.1	380.9	51.0000	48.87	71.40
292	262.7	381.3	51.0000	48.89	71.43
293	262.6	381.4	51.0000	48.90	71.44
294	263.1	380.9	51.0000	48.87	71.40
295	261.8	382.2	51.0000	48.94	71.49
296	262.4	381.6	51.0000	48.91	71.45
297	262.1	381.9	51.0000	48.93	71.47
298	259.5	384.5	51.0000	49.06	71.65
299	257.1	386.9	51.0000	49.20	71.82
300	254.3	389.7	51.0000	49.35	72.01
301	252.6	391.4	51.0000	49.44	72.13
302	251.8	392.2	51.0000	49.48	72.19
303	249.8	394.2	51.0000	49.59	72.33
304	248.4	395.6	51.0000	49.67	72.43
305	247.7	396.3	51.0000	49.70	72.47
306	248.3	395.7	51.0000	49.67	72.44
307	248.3	395.7	51.0000	49.67	72.43
308	249.6	394.4	51.0000	49.60	72.35
309	251.2	392.8	51.0000	49.51	72.23
310	252.6	391.4	51.0000	49.44	72.13
311	254.8	389.2	51.0000	49.32	71.98
312	255.9	388.1	51.0000	49.26	71.90
313	256.4	387.6	51.0000	49.23	71.87
314	255.5	388.5	51.0000	49.28	71.93
315	252.9	391.1	51.0000	49.42	72.11
316	250.9	393.1	51.0000	49.53	72.25
317	249.1	394.9	51.0000	49.63	72.38
318	245.7	398.3	51.0000	49.81	72.62
319	247.0	397.0	51.0000	49.74	72.53
320	246.5	397.5	51.0000	49.77	72.56
321	244.1	399.9	51.0000	49.90	72.73
322	244.9	399.1	51.0000	49.86	72.67
323	245.3	398.7	51.0000	49.83	72.64
324	246.3	397.7	51.0000	49.78	72.57
325	242.5	401.5	51.0000	49.98	72.84
326	242.7	401.3	51.0000	49.97	72.82
327	244.4	399.6	51.0000	49.88	72.71
328	246.2	397.8	51.0000	49.78	72.58
329	249.4	394.6	51.0000	49.61	72.36

330	250.7	393.3	51.0000	49.54	72.26
331	251.9	392.1	51.0000	49.48	72.18
332	254.4	389.6	51.0000	49.34	72.01
333	255.5	388.5	51.0000	49.28	71.93
334	256.2	387.8	51.0000	49.24	71.88
335	255.2	388.8	51.0000	49.30	71.95
336	256.1	387.9	51.0000	49.25	71.89
337	255.3	388.7	51.0000	49.29	71.94
338	255.8	388.2	51.0000	49.27	71.91
339	254.8	389.2	51.0000	49.32	71.98
340	255.4	388.6	51.0000	49.29	71.94
341	256.9	387.1	51.0000	49.21	71.84
342	259.0	385.0	51.0000	49.09	71.69
343	258.5	385.5	51.0000	49.12	71.72
344	259.4	384.6	51.0000	49.07	71.66
345	261.8	382.2	51.0000	48.94	71.49
346	262.9	381.1	51.0000	48.88	71.42
347	263.9	380.1	51.0000	48.83	71.35
348	267.6	376.4	51.0000	48.63	71.09
349	271.1	372.9	51.0000	48.43	70.84
350	274.2	369.8	51.0000	48.25	70.62
351	276.3	367.7	51.0000	48.13	70.48
352	278.3	365.7	51.0000	48.01	70.34
353	276.7	367.3	51.0000	48.11	70.45
354	275.2	368.8	51.0000	48.20	70.56
355	274.2	369.8	51.0000	48.25	70.63
356	271.8	372.2	51.0000	48.39	70.79
357	270.3	373.7	51.0000	48.47	70.90
358	269.7	374.3	51.0000	48.51	70.94
359	268.9	375.1	51.0000	48.55	70.99

AMSL= 644.0

ASR Registration Search

Registration 1005062 [Map Registration](#)**Registration Detail**

Reg Number	1005062	Status	Constructed
File Number	A0506141	Constructed	11/19/1984
FAA Study	82-ASO-30-OE	EMI	No
FAA Issue Date	07/26/1984	NEPA	No

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Communications Purposes

Location (in NAD83 Coordinates)

Lat/Long 35-21-51.0 N 081-11-12.0 W RT 3 BOB FRIDAY RD
City, State DALLAS , NC
Center of
AM Array

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
219.5	609.6
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
829.1	609.6

Painting and Lighting Specifications

FCC Paragraphs A1, B, G, H

Owner & Contact Information

FRN	0008110611	Licensee ID	L00620409
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Owner

WBTV, Inc.
Attention To: Chief Engineer
One Julian Price Place
Charlotte , NC 28206

P: (704)374-3500
E:

Contact

Bayes , James R Esq
1776 K Street, N.W.
Washington , DC 20006

P: (202)719-7000
E: jbayes@wrf.com

Last Action Status

Status	Constructed	Received	05/25/2006
Purpose	Admin Update	Entered	05/25/2006
Mode	Interactive		

Related Applications

05/25/2006 A0506138 - Admin Update (AU)
05/25/2006 A0506141 - Admin Update (AU)
10/24/1996 A0005961 - New (NE)

Comments**Comments**

12/18/1996 ADDED FAA CLEARANCE DATA AND CLEARED STRUCTURE WITH APPROPRIATE
FCC PARAGRAPHS BASED ON OLD TOWER FILE RECORD 60607, FAA STUDY 82-
ASO-30-OE.

Automated Letters

05/26/2006 FRN Association, Reference 506691
05/26/2006 Application Receipt, Reference 506689
05/26/2006 Application Receipt, Reference 506689
All letters (5)

[CLOSE WINDOW](#)

ELECTRONICS RESEARCH, INC.
7777 GARDNER ROAD
CHANDLER, IN. 47610

FIGURE 1

----THEORETICAL----
VERTICAL PLANE RELATIVE FIELD

5 LEVELS OF ERI TYPE 1080 OR 1180 ELEMENTS
+0.00 DEGREE(S) BEAM TILT
0 PERCENT FIRST NULL FILL
0 PERCENT SECOND NULL FILL

MARCH 26, 2010

BAY SPACING:
FULL-WAVE

