

APPLICATION FOR A FM BROADCAST STATION LICENSE

FCC FORM 302

File Number – BPH-20030829AII

WUHT

(Facility Number 6401)

Birmingham, Alabama

CHANNEL 299 – 107.7 MHz

APPLICANT: Citadel Broadcasting Company

December, 2006

Prepared by:



BROADCAST TECHNICAL CONSULTANTS

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Engineering Statement
In Support of an Application for a
FM Broadcast Station License
WUHT, Birmingham, Alabama

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ENGINEERING STATEMENT

Of

Lee S. Reynolds

And

Virgle Leon Strickland

In Support of an

Application for a

FM Broadcast License

WUHT

Birmingham, Alabama

Channel 299 – 107.7 MHz

December, 2006

General

As broadcast technical consultants doing business as Reynolds Technical Associates (“RTA”), we have been authorized by Citadel Broadcasting Company (herein referred to as “The Applicant”), to prepare the engineering portion of an application for a license (FCC Form 302) for WUHT , Birmingham, Alabama.

The Applicant was issued a construction permit (file number BPH-20030829AII) authorizing construction of the main facility of WUHT. The transmitter facility has been completed as authorized by the construction permit with the exception of the “Effective

radiated power in the Horizontal Plane” is 42 kilowatts instead of the authorized 43 kilowatts. The Maximum effective radiated power is the same as authorized (43 kilowatts). The Applicant is requesting the license to be granted with 42 kilowatts ERP in the horizontal plane, this is in compliance with Section 73.1690 (8) of the Commissions Rules and Regulations. All other parameters of the constructed facility is same as the construction permit authorizations.

Antenna Beam Tilt
(Exhibit E, Figure 1)

Exhibit E, Figure 1 is a tabulation of elevation pattern for the installed antenna provided by the antenna manufacturer.

Special Operating Condition Numbers 4
(Human Exposure to Radiofrequency Radiation)
(No Exhibit)

An agreement is in place stating: To prevent excessive human exposure to radiofrequency radiation, the licensee will reduce power or cease operation, whichever is necessary to protect persons having access to the site/tower. This addresses special operating condition 4.

Conclusion

This statement/application has been prepared for The Applicant by utilizing the information supplied by the Applicant. Careful examination of the information was performed to insure that all documentations were in full compliance with the Rule and Regulations of the Commission. We welcome the opportunity to discuss with the staff of the Federal Communications Commission the engineering data contained in this application. Should any questions arise concerning the information, please contact us.

The following pages are exhibits prepared and assembled in support of the proposed.

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Statement of the Consultants

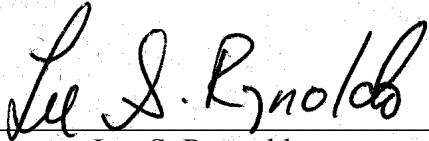
The instant engineering statement was prepared for “The Applicant” and supports an application for a FM Broadcast station license for WUHT, Birmingham, Alabama. It was developed by RTA and may not be used for purposes other than submission to the Commission by the applicant.

It may not be reproduced in its entirety, or in part, by anyone (other than from the Commission) without the written consent of RTA.

It is prepared for The Applicant under contractual agreement, and its certification by RTA is used accordingly. If The Applicant fails in its contractual obligation, RTA reserve the right to withdraw its certification.

The information in this application is compiled from information supplied by the Applicant. RTA is not responsible for errors resulting from incorrect data or unpublished rule and procedure changes.

For RTA:



Lee S. Reynolds

December 19th, 2006

6930 Cahaba Valley Road, Suite 202
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Proposal Number
 Date **5-May-06**
 Call Letters **WUHT**
 Location **Birmingham, AL**
 Customer **American Tower**
 Antenna Type **TAV-8FMB**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **08V037080-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.314	2.4	0.929	10.6	0.215	30.5	0.061	51.0	0.059	71.5	0.056
-9.5	0.309	2.6	0.911	10.8	0.218	31.0	0.046	51.5	0.051	72.0	0.059
-9.0	0.294	2.8	0.891	11.0	0.219	31.5	0.030	52.0	0.045	72.5	0.063
-8.5	0.270	3.0	0.870	11.5	0.218	32.0	0.018	52.5	0.042	73.0	0.067
-8.0	0.238	3.2	0.847	12.0	0.209	32.5	0.022	53.0	0.042	73.5	0.072
-7.5	0.201	3.4	0.822	12.5	0.193	33.0	0.038	53.5	0.048	74.0	0.076
-7.0	0.167	3.6	0.796	13.0	0.171	33.5	0.055	54.0	0.056	74.5	0.081
-6.5	0.150	3.8	0.769	13.5	0.143	34.0	0.071	54.5	0.066	75.0	0.086
-6.0	0.168	4.0	0.741	14.0	0.111	34.5	0.086	55.0	0.077	75.5	0.090
-5.5	0.220	4.2	0.711	14.5	0.076	35.0	0.099	55.5	0.088	76.0	0.093
-5.0	0.292	4.4	0.681	15.0	0.040	35.5	0.109	56.0	0.098	76.5	0.096
-4.5	0.375	4.6	0.650	15.5	0.010	36.0	0.117	56.5	0.108	77.0	0.099
-4.0	0.462	4.8	0.618	16.0	0.035	36.5	0.122	57.0	0.117	77.5	0.102
-3.5	0.550	5.0	0.586	16.5	0.067	37.0	0.124	57.5	0.126	78.0	0.104
-3.0	0.636	5.2	0.554	17.0	0.097	37.5	0.123	58.0	0.133	78.5	0.105
-2.8	0.669	5.4	0.521	17.5	0.122	38.0	0.119	58.5	0.139	79.0	0.106
-2.6	0.701	5.6	0.489	18.0	0.143	38.5	0.113	59.0	0.143	79.5	0.107
-2.4	0.732	5.8	0.457	18.5	0.159	39.0	0.104	59.5	0.147	80.0	0.107
-2.2	0.762	6.0	0.425	19.0	0.168	39.5	0.093	60.0	0.149	80.5	0.109
-2.0	0.791	6.2	0.394	19.5	0.172	40.0	0.080	60.5	0.150	81.0	0.110
-1.8	0.818	6.4	0.364	20.0	0.171	40.5	0.066	61.0	0.150	81.5	0.111
-1.6	0.844	6.6	0.336	20.5	0.164	41.0	0.050	61.5	0.149	82.0	0.112
-1.4	0.868	6.8	0.308	21.0	0.152	41.5	0.034	62.0	0.147	82.5	0.113
-1.2	0.890	7.0	0.282	21.5	0.136	42.0	0.018	62.5	0.144	83.0	0.113
-1.0	0.910	7.2	0.258	22.0	0.117	42.5	0.006	63.0	0.140	83.5	0.113
-0.8	0.929	7.4	0.237	22.5	0.096	43.0	0.016	63.5	0.135	84.0	0.113
-0.6	0.946	7.6	0.218	23.0	0.074	43.5	0.031	64.0	0.129	84.5	0.112
-0.4	0.960	7.8	0.203	23.5	0.052	44.0	0.045	64.5	0.122	85.0	0.112
-0.2	0.972	8.0	0.190	24.0	0.034	44.5	0.058	65.0	0.115	85.5	0.109
0.0	0.983	8.2	0.181	24.5	0.030	45.0	0.069	65.5	0.108	86.0	0.106
0.2	0.990	8.4	0.176	25.0	0.041	45.5	0.079	66.0	0.101	86.5	0.103
0.4	0.996	8.6	0.174	25.5	0.057	46.0	0.086	66.5	0.094	87.0	0.100
0.6	0.999	8.8	0.175	26.0	0.072	46.5	0.092	67.0	0.087	87.5	0.096
0.8	1.000	9.0	0.178	26.5	0.085	47.0	0.095	67.5	0.080	88.0	0.092
1.0	0.999	9.2	0.182	27.0	0.095	47.5	0.097	68.0	0.073	88.5	0.089
1.2	0.995	9.4	0.188	27.5	0.101	48.0	0.096	68.5	0.067	89.0	0.084
1.4	0.990	9.6	0.193	28.0	0.103	48.5	0.093	69.0	0.062	89.5	0.080
1.6	0.982	9.8	0.196	28.5	0.101	49.0	0.089	69.5	0.058	90.0	0.076
1.8	0.972	10.0	0.202	29.0	0.096	49.5	0.083	70.0	0.055		
2.0	0.959	10.2	0.207	29.5	0.087	50.0	0.076	70.5	0.054		
2.2	0.945	10.4	0.212	30.0	0.075	50.5	0.068	71.0	0.054		