

ENGINEERING EXHIBIT
IN SUPPORT OF A
MODIFICATION OF CONSTRUCTION PERMIT
BPCDT-19991101AJR
WEMT-DT – GREENEVILLE, TENNESSEE
DT – CH. 38 – 1000 KW ERP – 795.3 M HAAT

JUNE, 2003

TABLE OF CONTENTS

FCC FORM 301, SECTIONS III AND III-D

	<u>PAGE</u>
Engineering Showing in Support of Modification.....	1
Exhibit 1 - Vertical Plan Antenna Sketch	9
Exhibit 2 - Horizontal Plane Antenna Pattern.....	10
Exhibit 3 – Horizontal Plane Antenna Tabulation	11
Exhibit 4A – Vertical Plane Antenna Pattern	12
Exhibit 4B – Vertical Plane Antenna Pattern	13
Exhibit 5 – Vertical Plane Antenna Tabulation	14
Exhibit 6 – Predicted Coverage Contours	15
Exhibit 7 – Predicted Interference Contours Into Class A Television	16
Appendix A – Radiofrequency Radiation Study	17



STATEMENT OF JOHN E. HIDLE JR.
IN SUPPORT OF AN APPLICATION FOR
MODIFICATION OF CONSTRUCTION PERMIT
BPCDT-19991101AJR
WEMT-DT – GREENEVILLE, TENNESSEE
DT – CH. 38 – 1000 KW ERP – 795.3 M HAAT

Prepared for: WEMT Licensee L.P.

I am an Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. I received my Bachelor of Science, Cum Laude, from the University of Tennessee in May, 1996, and am currently a second year, part-time student of law in the Juris Doctor program at George Mason University School of Law. My professional experience in the communications field includes four years working as an Engineer at Carl T. Jones Corporation, where my duties have included assisting with the filing of Form 301 applications for new and modified facilities of NTSC and DTV stations, and Form 601 applications for auxiliary services. My experience in the communications field prior to my tenure at Carl T. Jones Corporation included part-time work in radio at WRWD-FM in Highland, New York, in 1990, and WGEA-AM&FM in Geneva, Alabama, in 1986.

GENERAL

This office has been authorized by WEMT Licensee L.P., permittee of WEMT-DT Channel 38, Greeneville, Tennessee, to prepare this statement, FCC Form 301, Sections III and III-D, and the associated exhibits in support of an Application for

Modification of Construction Permit to utilize a common antenna at the existing WEMT(TV) site in Greeneville, Tennessee, at 36° 01' 24" NL, 082° 42' 56" WL. The proposed antenna will accommodate the television facilities of both the DTV and NTSC facilities of WEMT(TV). This will help to efficiently facilitate and maintain both digital and analog television transmission to the viewing public, while also serving to lessen the visual effects of the necessity of mounting multiple antennas on a single larger, reinforced tower structure, or the necessity of utilizing multiple tower structures at the site.

PROPOSED DIRECTIONAL ANTENNA

The applicant proposes to utilize a Dielectric model TFU-25ETT-R 3BP250 DC directional transmitting antenna, utilizing a "bent peanut" shaped azimuth pattern similar to that employed currently by the licensed NTSC facility of WEMT. The antenna is intended to be shared with the analog facility of WEMT(TV) channel 39, on the existing structure now supporting the existing WEMT(TV) channel 39 antenna. The existing tower structure that will support the proposed antenna stands 168' above ground level (AGL). As FAA registration is not required for structures less than 200' AGL, there is no FAA registration number for the existing tower. Therefore, FCC registration is not required. A Vertical Plan Antenna Sketch showing the various elevations at the proposed site is provided in Exhibit 1. Azimuth patterns for the proposed antenna are provided in Exhibit 2, and tabulated in Exhibit 3. Elevation patterns for the proposed antenna are provided in Exhibits 4A and 4B, and tabulated in Exhibit 5.

PREDICTED COVERAGE CONTOURS

The predicted coverage contours were calculated in accordance with the method described in Section 73.625 of the Rules, utilizing the appropriate F(50,90) propagation curves, power, and antenna height above average terrain as determined in each profile radial. The average terrain on the eight cardinal radials from 3 to 16 kilometers from the site was determined using the National Geophysical Data Center Thirty Second Database (TPG-0050) as prescribed in the FCC Rules. The antenna and site elevation coordinates were determined using FCC registration data. Exhibit 6 shows the principal community of license Greeneville, Tennessee, is completely encompassed by the predicted 48 dBu coverage contour of the proposed facility of WENT-DT.

ALLOCATION CONSIDERATIONS

Full Service Television Considerations

A study was performed using the FCC's Longley-Rice program "TV-Process" to determine if the facility proposed herein would cause any interference to any full service NTSC or DTV station beyond acceptable *de minimis* levels. TV-Process indicated no unacceptable interference to the authorized or requested facility of any full service NTSC or DTV station.

Class A Television Considerations

As required in Section 73.623 of the FCC's Rules, as established in the Report and Order establishing Class A Television Service, released April 4, 2000, a study of

interference contour overlap was performed. The protection requirement for a full service DTV station is defined as protection of at least 34 dB based on an F(50,10) interference contour as calculated according to the method in 47 CFR Section 73.699, to the protected 74 dBu F(50,50) contour of a co-channel Class A station. However, a DTV station is allowed contour overlap to a Class A station that already exists based upon the requested facility of the DTV station filed on or before December 31, 1999. Therefore, a proposal to modify an existing authorization must maintain or reduce any existing contour overlap defined as prohibited in Section 73.699.

Results of a study of contour overlap based upon the 40 dBu F(50,10) interference contour existing Construction Permit facility of WEMT-DT indicate the existence of no interference contour overlap to any Class A Television station, with the exception of co-channel WPDP-LP channel 38, Cleveland, Tennessee. WEMT-DT may in modifying its facility maintain or reduce the existing contour overlap. A comparison of the 40 dBu F(50,10) interference contour of the modified facility for WEMT-DT proposed herein to the interference contour of the Construction Permit facility indicates that the instant proposal would reduce existing contour overlap to WPDP-LP. See Exhibit 7. Further, the instant proposal is not predicted to create any new prohibited contour overlap to any other Class A Television station. Therefore, the instant proposal complies with the FCC's Rules regarding protection of Class A Television.

BLANKETING AND INTERMODULATION INTERFERENCE

A number of broadcast and non-broadcast facilities are located within 10 km of the proposed WENT-DT Transmitter site. The applicant recognizes its responsibility to remedy complaints of interference created by this proposal in accordance with applicable rules.

ENVIRONMENTAL CONSIDERATIONS

RADIO FREQUENCY IMPACT

Effective October 15, 1997, the FCC adopted guidelines and procedures for evaluating environmental effects of radio frequency (RF) emissions. The guidelines are generally based on recommendations by the National Council on Radiation Protection and Measurements (NCRP) in NCRP Report No. 86 (1986), and by the American National Standards Institute and the Institute of Electrical and Electronic Engineers, Inc. (IEEE) in ANSI/IEEE C95.1-1992 (IEEE C95.1-1991). The guidelines provide a maximum permissible exposure (MPE) level for occupational or "controlled" situations as well as "uncontrolled" situations that apply in cases that affect the general public. The FCC's Office of Engineering and Technology (OET) has issued a revised technical bulletin (OET Bulletin No. 65) entitled, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields" (Edition 97-01, August 1997), to aid in the determination of whether FCC-regulated transmitting facilities, operations or devices comply with limits for human exposure to radio frequency electromagnetic fields as adopted by the Commission in 1996. The Bulletin contains

updated and additional technical information for evaluating compliance with FCC policies and guidelines.

The FCC's MPE level for "uncontrolled" environments is 0.2 milliwatts per centimeter squared (mW/cm^2) when applied to broadcast facilities operating between 30 MHz and 300 MHz, and for broadcast facilities operating between 300 MHz and 1500 MHz, primarily UHF TV stations, is derived from the formula, $(\text{frequency}/1500)$. The MPE level for "controlled" environments is 1.0 milliwatts per centimeter squared (mW/cm^2) for operations between 30 MHz and 300 MHz, and for UHF stations in a "controlled" environment is derived from the formula, $(\text{frequency}/300)$. For WEMT-DT, which operates on television Channel 38 (614-620 MHz), the MPE is 0.411 milliwatts per centimeter squared (mW/cm^2) in an "uncontrolled" environment and $2.055 \text{ mW}/\text{cm}^2$ in a "controlled" environment.

The proposed WEMT-DT facility will operate with a maximum ERP of 1000 kW from a horizontally polarized non-directional transmitting antenna with a centerline height of 43.5 meters above ground level (AGL). Based on the vertical plane radiation pattern of the proposed antenna for both WEMT(TV) and WEMT-DT, the relative field factor for these two stations could safely be assumed to be under 0.05. See Exhibit 5. Based on this assumption, the WEMT-DT facility is predicted to produce a maximum power density at two meters above ground level of $.04848 \text{ mW}/\text{cm}^2$, which is 11.79% of the FCC guideline value for "uncontrolled" environments, and 2.358% of the FCC guideline value for "controlled" environments. From the shared antenna, the WEMT(TV) facility is predicted to produce a maximum power density at two meters

above ground level of .07323 mW/cm², which is 17.63% of the FCC guideline value for “uncontrolled” environments, and 3.526% of the FCC guideline. The combined effect of both the digital and analog facilities of WEMT at its tower site would be only 29.42% of the uncontrolled limit, or 5.884% of the controlled limit. See Appendix A. Consequently, the WEMT-DT transmitter site complies with the FCC guidelines for human exposure to RF electromagnetic fields.

OCCUPATIONAL SAFETY

The licensee of WEMT-DT is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WEMT-DT antenna. The applicant is committed to entering into an agreement with the other stations that will utilize the proposed antenna to reduce power and/or cease operation during times of service or maintenance of the transmission systems, when necessary, to ensure protection to personnel.

In light of the above, the proposed WEMT-DT facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Commission's Rules.

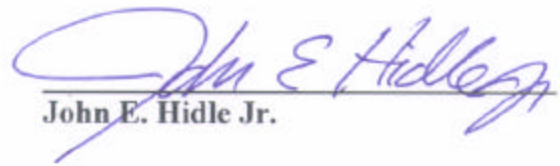
SUMMARY

It is submitted that the proposal described herein complies with the Rules and Regulations of the Federal Communications Commission. This statement, FCC Form

STATEMENT OF JOHN E. HIDLE, JR.
WEMT-DT, GREENEVILLE, TENNESSEE
PAGE 8

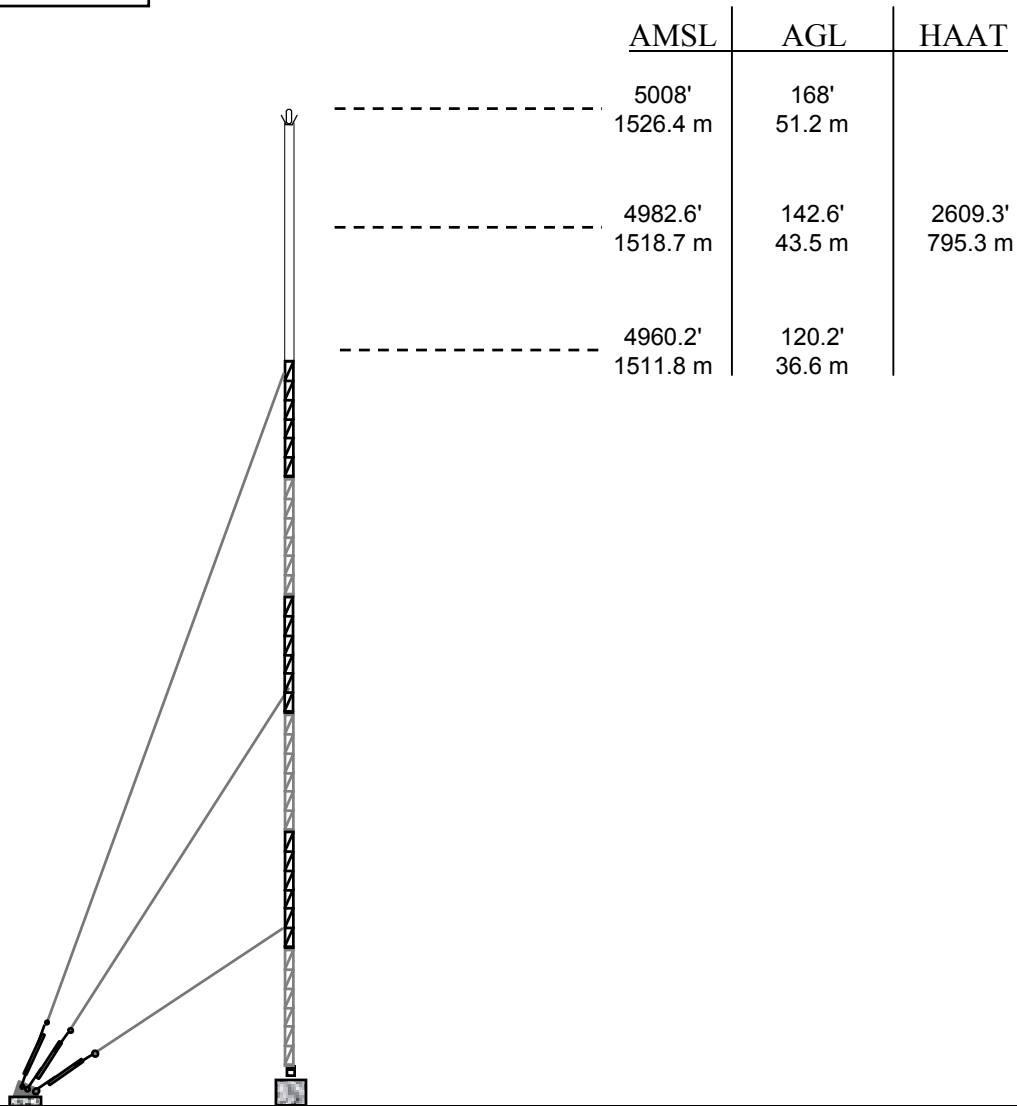
301, and the attached exhibits were prepared by me or under my direct supervision and are believed to be true and correct.

DATED: June 30, 2003



John E. Hidle Jr.

COORDINATES NAD-27
NORTH LATITUDE: 36° 01' 24"
WEST LONGITUDE: 82° 42' 56"



GROUND ELEVATION = 4840' (1475.2 m) / AVERAGE TERRAIN = 2373.5' (723.42 m) A.M.S.L.

VERTICAL PLAN ANTENNA SKETCH
WEMT-DT - GREENEVILLE, TENNESSEE
Ch. 38 - 1000 kW DA-MAX - 795.3 m HAAT
DIELECTRIC TFU-25ETT-R 3BP250 DC
JUNE, 2003

CARL T. JONES

CORPORATION

NOTE : NOT DRAWN TO SCALE



Date

9-Jun-03

Call Letters

WEMT-DT

Channel

38

Location

Greeneville, TN

Customer

Antenna Type

TFU-25ETT-R 3BP250 DC

AZIMUTH PATTERN

Gain

2.50**(3.98 dB)**

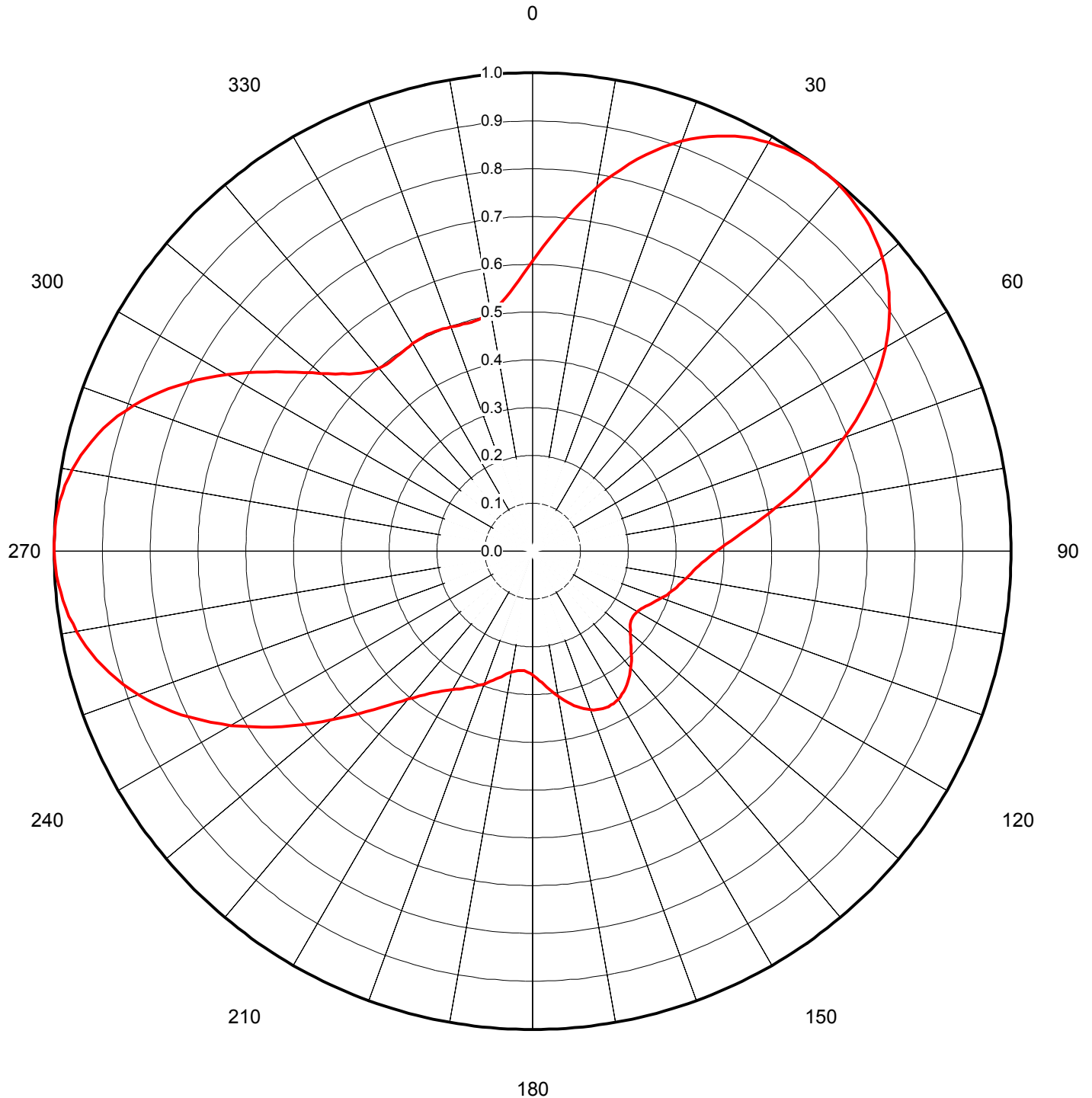
Frequency

617.00 MHz

Calculated / Measured

Calculated

Drawing #

TFU-3P250-38



Date
Call Letters
Location
Customer
Antenna Type

9-Jun-03
WENT-DT Channel
Greeneville, TN
TFU-25ETT-R 3BP250 DC

38**TABULATION OF AZIMUTH PATTERN**Azimuth Pattern Drawing #: **TFU-3P250-38**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.606	45	0.983	90	0.384	135	0.292	180	0.259	225	0.468	270	1.000	315	0.525
1	0.622	46	0.978	91	0.376	136	0.297	181	0.256	226	0.483	271	1.000	316	0.517
2	0.637	47	0.973	92	0.368	137	0.303	182	0.254	227	0.499	272	1.000	317	0.512
3	0.653	48	0.967	93	0.361	138	0.308	183	0.252	228	0.515	273	0.999	318	0.506
4	0.670	49	0.961	94	0.354	139	0.314	184	0.251	229	0.532	274	0.998	319	0.503
5	0.687	50	0.954	95	0.349	140	0.319	185	0.251	230	0.549	275	0.996	320	0.499
6	0.704	51	0.947	96	0.343	141	0.325	186	0.251	231	0.567	276	0.993	321	0.497
7	0.721	52	0.939	97	0.339	142	0.330	187	0.252	232	0.584	277	0.990	322	0.496
8	0.738	53	0.930	98	0.334	143	0.334	188	0.253	233	0.603	278	0.987	323	0.496
9	0.755	54	0.921	99	0.330	144	0.339	189	0.255	234	0.621	279	0.982	324	0.495
10	0.771	55	0.911	100	0.326	145	0.343	190	0.257	235	0.639	280	0.977	325	0.496
11	0.788	56	0.901	101	0.322	146	0.347	191	0.260	236	0.657	281	0.971	326	0.497
12	0.804	57	0.889	102	0.318	147	0.350	192	0.263	237	0.675	282	0.965	327	0.498
13	0.819	58	0.878	103	0.314	148	0.353	193	0.267	238	0.693	283	0.958	328	0.499
14	0.834	59	0.865	104	0.311	149	0.355	194	0.271	239	0.711	284	0.950	329	0.500
15	0.849	60	0.852	105	0.307	150	0.358	195	0.275	240	0.728	285	0.941	330	0.501
16	0.863	61	0.838	106	0.303	151	0.359	196	0.279	241	0.745	286	0.933	331	0.502
17	0.876	62	0.824	107	0.299	152	0.361	197	0.283	242	0.762	287	0.922	332	0.503
18	0.889	63	0.809	108	0.295	153	0.361	198	0.287	243	0.778	288	0.912	333	0.503
19	0.900	64	0.794	109	0.291	154	0.362	199	0.291	244	0.794	289	0.900	334	0.503
20	0.912	65	0.778	110	0.287	155	0.361	200	0.295	245	0.809	290	0.889	335	0.503
21	0.922	66	0.762	111	0.283	156	0.361	201	0.299	246	0.824	291	0.876	336	0.503
22	0.933	67	0.745	112	0.279	157	0.359	202	0.303	247	0.838	292	0.863	337	0.502
23	0.941	68	0.728	113	0.275	158	0.358	203	0.307	248	0.852	293	0.849	338	0.501
24	0.950	69	0.711	114	0.271	159	0.355	204	0.311	249	0.865	294	0.834	339	0.500
25	0.958	70	0.693	115	0.267	160	0.353	205	0.314	250	0.878	295	0.819	340	0.499
26	0.965	71	0.675	116	0.263	161	0.350	206	0.318	251	0.889	296	0.804	341	0.498
27	0.971	72	0.657	117	0.260	162	0.347	207	0.322	252	0.901	297	0.788	342	0.497
28	0.977	73	0.639	118	0.257	163	0.343	208	0.326	253	0.911	298	0.771	343	0.496
29	0.982	74	0.621	119	0.255	164	0.339	209	0.330	254	0.921	299	0.755	344	0.495
30	0.987	75	0.603	120	0.253	165	0.334	210	0.334	255	0.930	300	0.738	345	0.496
31	0.990	76	0.584	121	0.252	166	0.330	211	0.339	256	0.939	301	0.721	346	0.496
32	0.993	77	0.567	122	0.251	167	0.325	212	0.343	257	0.947	302	0.704	347	0.497
33	0.996	78	0.549	123	0.251	168	0.319	213	0.349	258	0.954	303	0.687	348	0.499
34	0.998	79	0.532	124	0.251	169	0.314	214	0.354	259	0.961	304	0.670	349	0.503
35	0.999	80	0.515	125	0.252	170	0.308	215	0.361	260	0.967	305	0.653	350	0.506
36	1.000	81	0.499	126	0.254	171	0.303	216	0.368	261	0.973	306	0.637	351	0.512
37	1.000	82	0.483	127	0.256	172	0.297	217	0.376	262	0.978	307	0.622	352	0.517
38	1.000	83	0.468	128	0.259	173	0.292	218	0.384	263	0.983	308	0.606	353	0.525
39	0.999	84	0.454	129	0.263	174	0.286	219	0.394	264	0.987	309	0.592	354	0.533
40	0.998	85	0.440	130	0.266	175	0.281	220	0.404	265	0.990	310	0.578	355	0.543
41	0.996	86	0.427	131	0.271	176	0.276	221	0.416	266	0.993	311	0.566	356	0.553
42	0.993	87	0.416	132	0.276	177	0.271	222	0.427	267	0.996	312	0.553	357	0.566
43	0.990	88	0.404	133	0.281	178	0.266	223	0.440	268	0.998	313	0.543	358	0.578
44	0.987	89	0.394	134	0.286	179	0.263	224	0.454	269	0.999	314	0.533	359	0.592



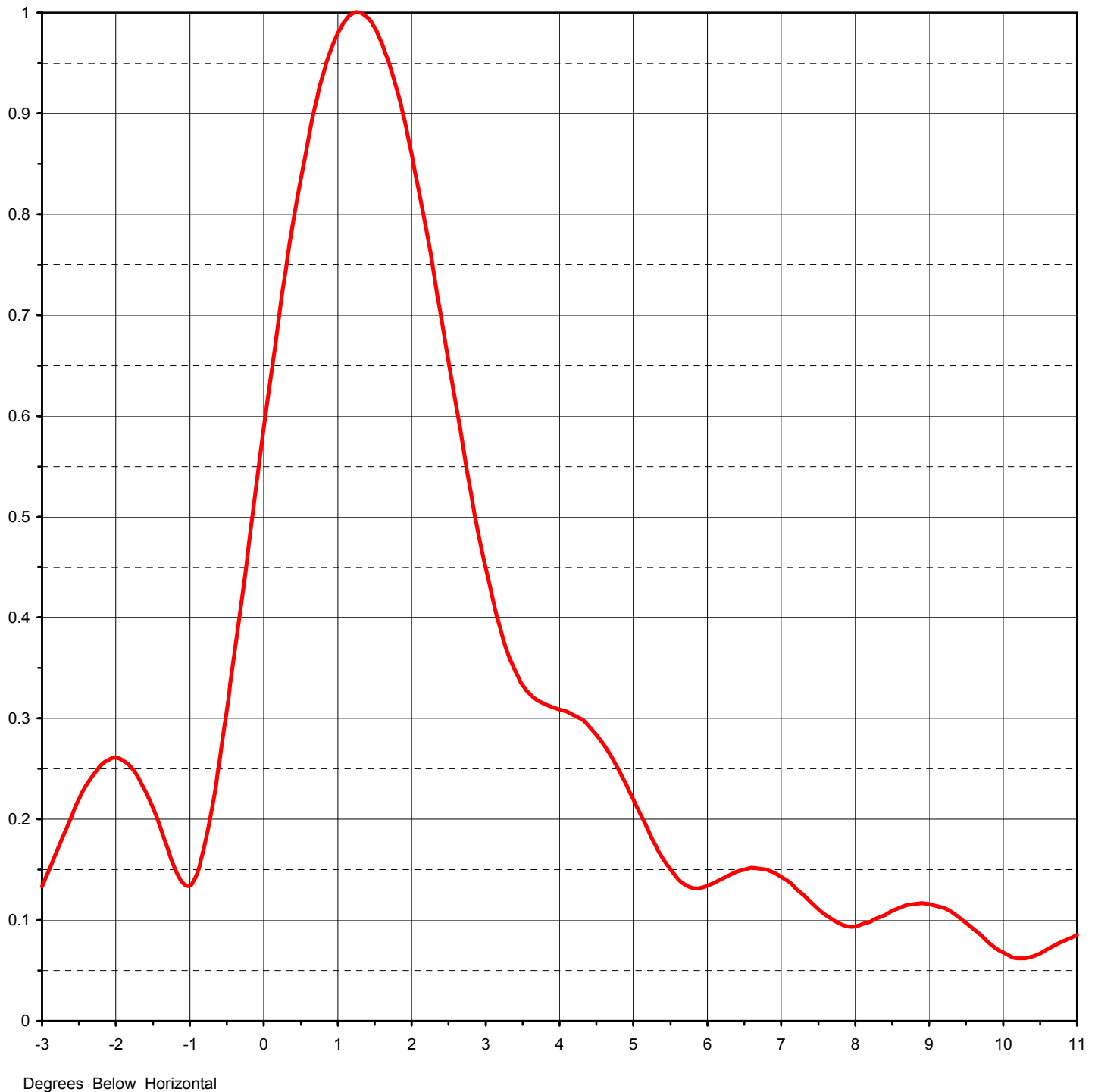
Date
Call Letters
Location
Customer
Antenna Type

9-Jun-03
WEMT-DT Channel **38**
Greeneville, TN
TFU-25ETT-R 3BP250 DC

ELEVATION PATTERN

RMS Gain at Main Lobe **22.50 (13.52 dB)**
RMS Gain at Horizontal **7.80 (8.92 dB)**
Calculated / Measured **Calculated**

Beam Tilt **1.25 deg**
Frequency **617.00 MHz**
Drawing # **25E225125**





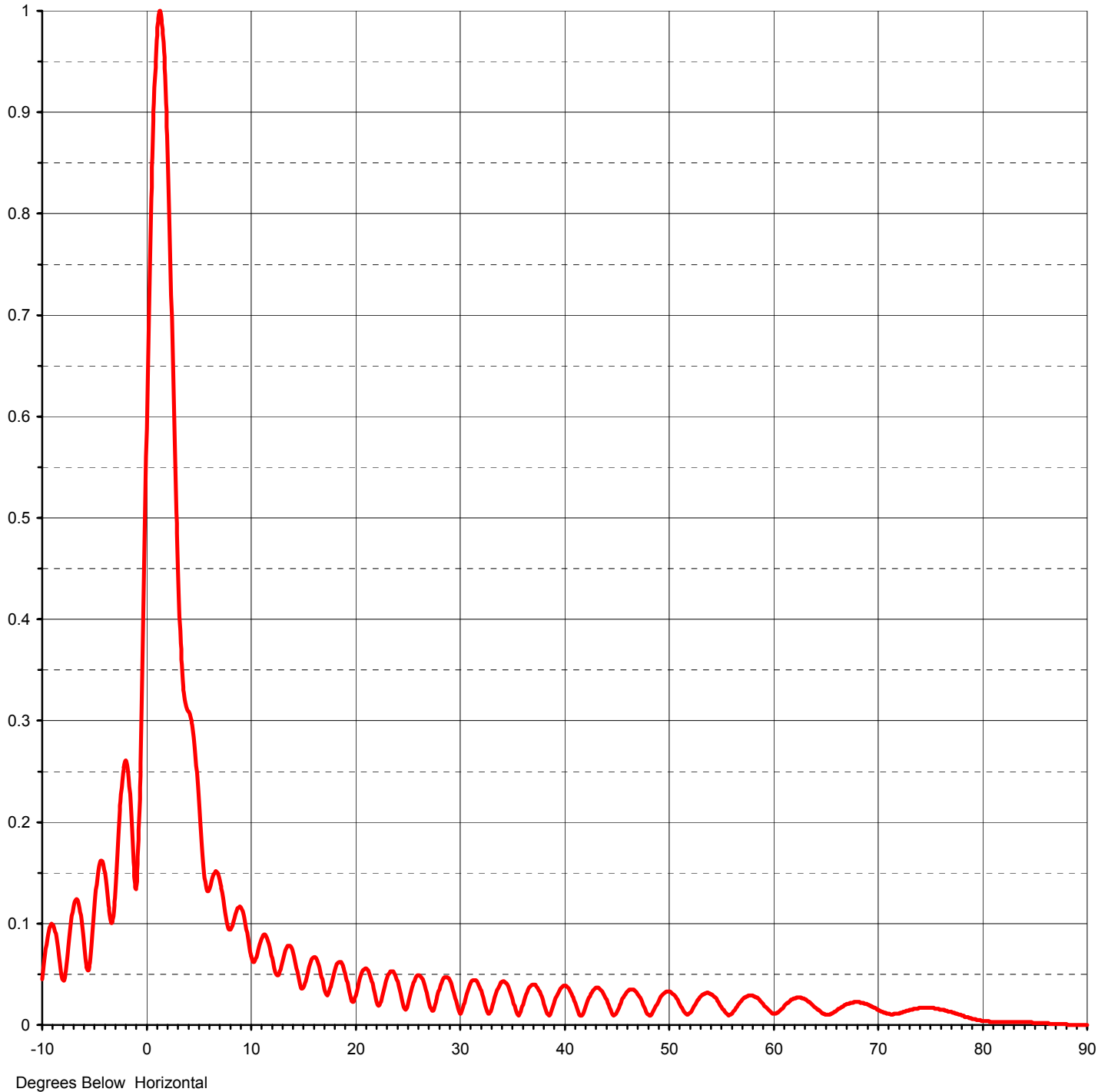
Date
Call Letters
Location
Customer
Antenna Type

9-Jun-03
WEMT-DT Channel **38**
Greeneville, TN
TFU-25ETT-R 3BP250 DC

ELEVATION PATTERN

RMS Gain at Main Lobe **22.50 (13.52 dB)**
RMS Gain at Horizontal **7.80 (8.92 dB)**
Calculated / Measured **Calculated**

Beam Tilt **1.25 deg**
Frequency **617.00 MHz**
Drawing # **25E225125-90**



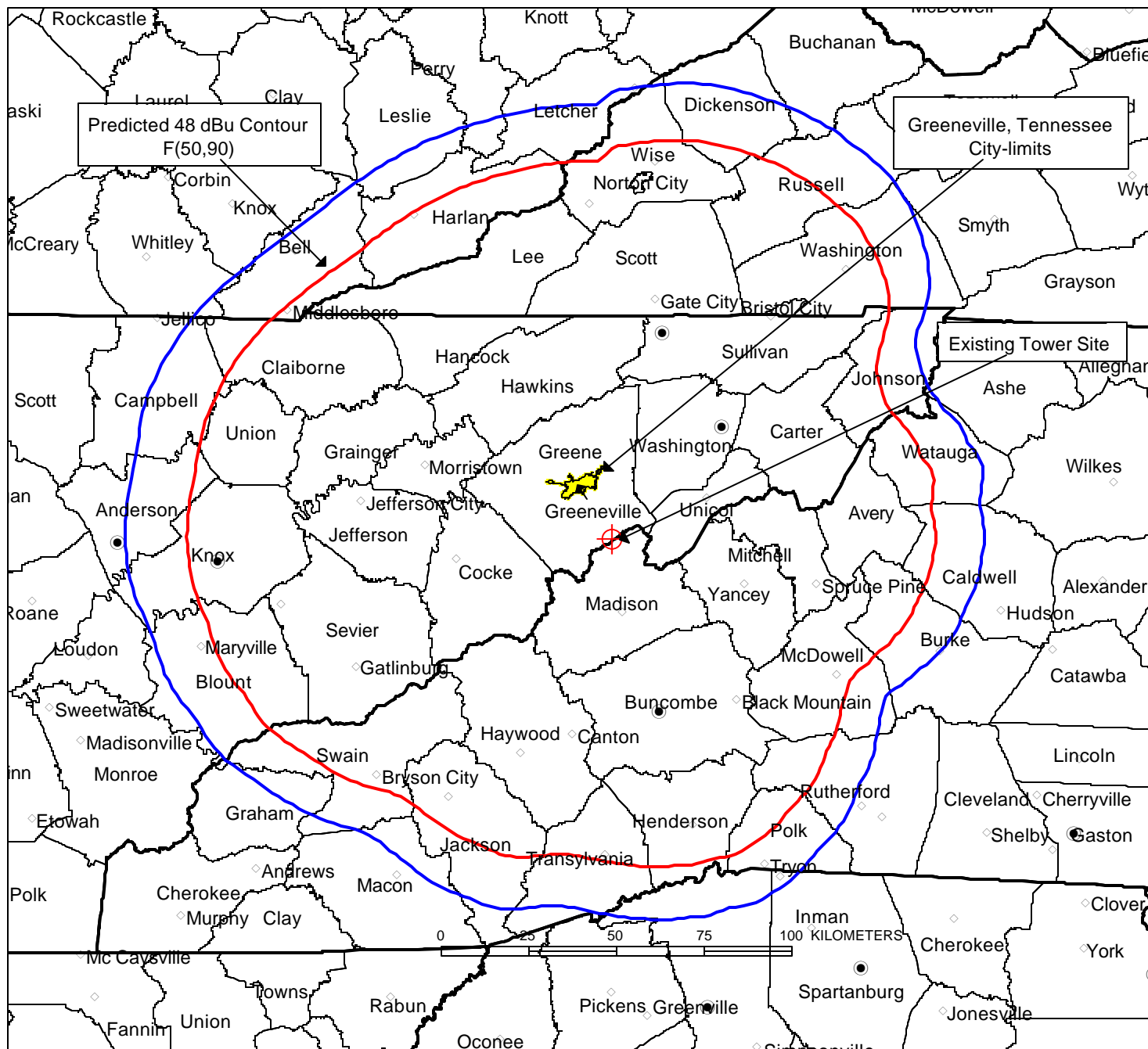


Date **9-Jun-03**
 Call Letters **WEMT-DT** Channel **38**
 Location **Greeneville, TN**
 Customer
 Antenna Type **TFU-25ETT-R 3BP250 DC**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **25E225125-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.045	2.4	0.698	10.6	0.067	30.5	0.022	51.0	0.023	71.5	0.011
-9.5	0.086	2.6	0.610	10.8	0.075	31.0	0.039	51.5	0.013	72.0	0.011
-9.0	0.099	2.8	0.525	11.0	0.082	31.5	0.044	52.0	0.011	72.5	0.013
-8.5	0.077	3.0	0.449	11.5	0.088	32.0	0.037	52.5	0.019	73.0	0.015
-8.0	0.044	3.2	0.389	12.0	0.071	32.5	0.019	53.0	0.027	73.5	0.016
-7.5	0.076	3.4	0.347	12.5	0.050	33.0	0.013	53.5	0.031	74.0	0.017
-7.0	0.117	3.6	0.324	13.0	0.059	33.5	0.030	54.0	0.031	74.5	0.017
-6.5	0.120	3.8	0.314	13.5	0.076	34.0	0.042	54.5	0.027	75.0	0.017
-6.0	0.081	4.0	0.309	14.0	0.075	34.5	0.041	55.0	0.019	75.5	0.016
-5.5	0.057	4.2	0.303	14.5	0.053	35.0	0.029	55.5	0.012	76.0	0.015
-5.0	0.116	4.4	0.292	15.0	0.036	35.5	0.012	56.0	0.010	76.5	0.014
-4.5	0.159	4.6	0.274	15.5	0.051	36.0	0.017	56.5	0.017	77.0	0.013
-4.0	0.150	4.8	0.249	16.0	0.066	36.5	0.032	57.0	0.024	77.5	0.011
-3.5	0.106	5.0	0.220	16.5	0.061	37.0	0.040	57.5	0.028	78.0	0.009
-3.0	0.133	5.2	0.189	17.0	0.040	37.5	0.037	58.0	0.029	78.5	0.008
-2.8	0.168	5.4	0.161	17.5	0.031	38.0	0.025	58.5	0.027	79.0	0.006
-2.6	0.203	5.6	0.141	18.0	0.050	38.5	0.010	59.0	0.022	79.5	0.005
-2.4	0.234	5.8	0.132	18.5	0.062	39.0	0.019	59.5	0.016	80.0	0.004
-2.2	0.254	6.0	0.134	19.0	0.054	39.5	0.032	60.0	0.011	80.5	0.004
-2.0	0.261	6.2	0.141	19.5	0.032	40.0	0.039	60.5	0.012	81.0	0.003
-1.8	0.252	6.4	0.148	20.0	0.025	40.5	0.036	61.0	0.017	81.5	0.003
-1.6	0.228	6.6	0.152	20.5	0.046	41.0	0.024	61.5	0.022	82.0	0.003
-1.4	0.192	6.8	0.150	21.0	0.056	41.5	0.010	62.0	0.026	82.5	0.003
-1.2	0.151	7.0	0.143	21.5	0.048	42.0	0.015	62.5	0.027	83.0	0.003
-1.0	0.134	7.2	0.131	22.0	0.027	42.5	0.028	63.0	0.026	83.5	0.003
-0.8	0.174	7.4	0.118	22.5	0.023	43.0	0.036	63.5	0.023	84.0	0.003
-0.6	0.258	7.6	0.105	23.0	0.043	43.5	0.035	64.0	0.018	84.5	0.003
-0.4	0.362	7.8	0.096	23.5	0.053	44.0	0.027	64.5	0.013	85.0	0.002
-0.2	0.475	8.0	0.094	24.0	0.046	44.5	0.015	65.0	0.010	85.5	0.002
0.0	0.588	8.2	0.098	24.5	0.026	45.0	0.011	65.5	0.011	86.0	0.002
0.2	0.696	8.4	0.105	25.0	0.017	45.5	0.022	66.0	0.014	86.5	0.001
0.4	0.793	8.6	0.112	25.5	0.037	46.0	0.032	66.5	0.018	87.0	0.001
0.6	0.874	8.8	0.116	26.0	0.049	46.5	0.035	67.0	0.021	87.5	0.001
0.8	0.938	9.0	0.116	26.5	0.045	47.0	0.032	67.5	0.022	88.0	0.001
1.0	0.980	9.2	0.112	27.0	0.027	47.5	0.023	68.0	0.023	88.5	0.000
1.2	0.999	9.4	0.103	27.5	0.014	48.0	0.011	68.5	0.022	89.0	0.000
1.4	0.995	9.6	0.091	28.0	0.032	48.5	0.012	69.0	0.020	89.5	0.000
1.6	0.969	9.8	0.085	28.5	0.046	49.0	0.022	69.5	0.018	90.0	0.000
1.8	0.923	10.0	0.072	29.0	0.046	49.5	0.030	70.0	0.015		
2.0	0.860	10.2	0.064	29.5	0.032	50.0	0.033	70.5	0.012		
2.2	0.783	10.4	0.062	30.0	0.013	50.5	0.030	71.0	0.011		

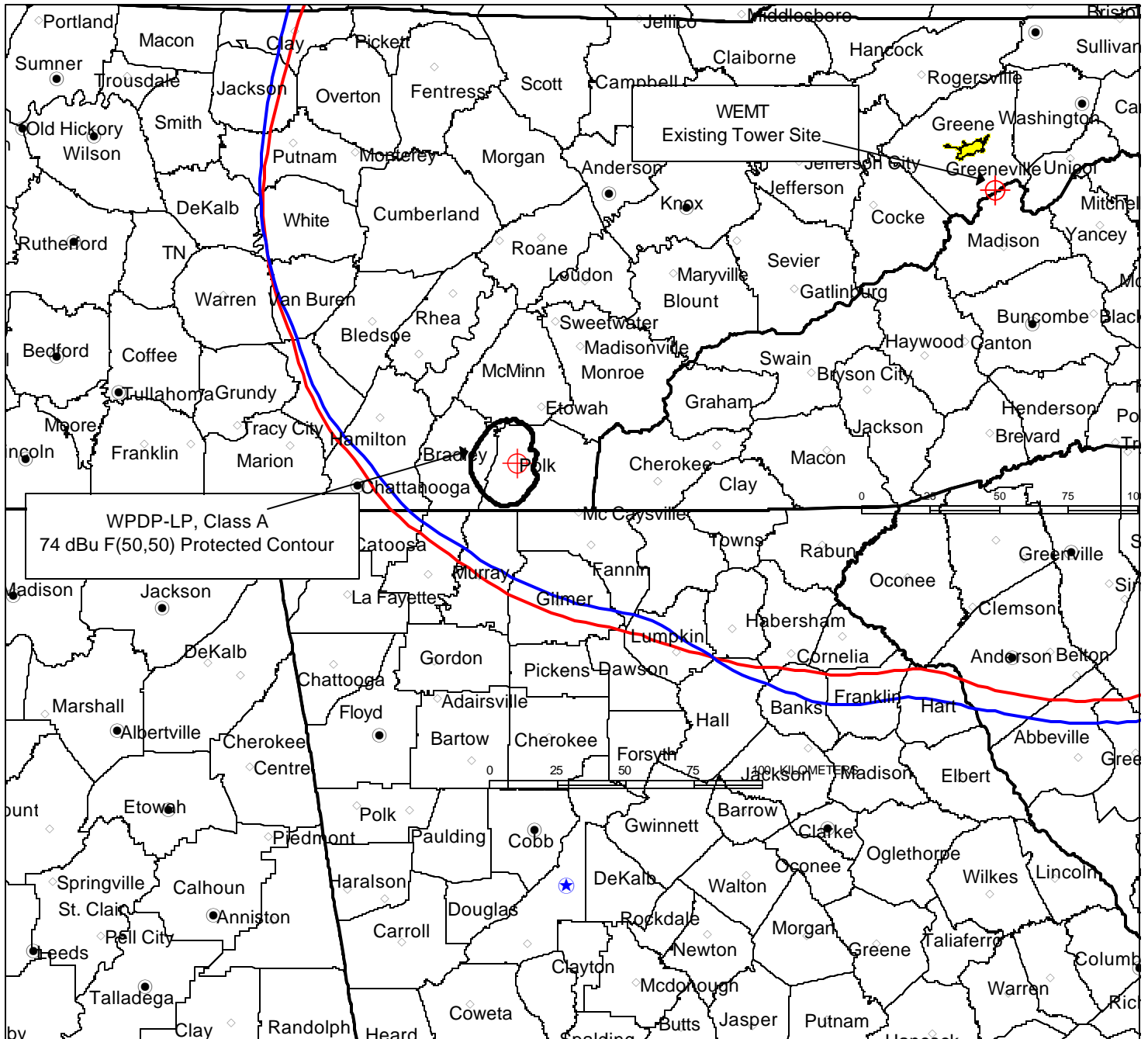


WEMT-DT Predicted Coverage Contour
48 dBu F(50,90) City Grade Coverage



WEMT-DT Predicted Coverage Contour
41 dBu F(50,90) Protected Coverage

PREDICTED COVERAGE CONTOURS
WEMT-DT, GREENEVILLE, TENNESSEE
CH. 38, 1000.0 kW (DA-MAX), 795.3 m HAAT
JUNE, 2003



○ WEMT-DT Construction Permit Facility
40 dBu F(50,10) Interference Contour

○ WEMT-DT Proposed Facility
40 dBu F(50,10) Interference Contour

COMPARISON OF PREDICTED INTERFERENCE CONTOURS INTO CLASS A TELEVISION

WEMT-DT, GREENEVILLE, TENNESSEE
CH. 38, 1000.0 kW (DA-MAX), 795.3 m HAAT
JUNE, 2003

**SUMMARY OF RADIOFREQUENCY
RADIATION STUDY**
WEMT-DT GREENEVILLE, TENNESSEE
CHANNEL 38, 1000 kW ERP, 795.3 m HAAT
JUNE, 2003

<u>CALL</u>	<u>SERVICE</u>	<u>CHANNEL</u>	<u>FREQUENCY</u>	<u>POLARIZATION</u>	<u>ANTENNA HEIGHT ** mAGL</u>	<u>ERP (kW)</u>	<u>VERT. RELATIVE FIELD FACTOR</u>	<u>PREDICTED POWER DENSITY (mW/cm²)</u>	<u>FCC UNCONTROLLED LIMIT (mW/cm²)</u>	<u>PERCENT OF UNCONTROLLED LIMIT</u>
WEMT(TV)	TV	39	623	H	41.5	3020.000	0.050	0.07323	0.415	17.63%
WEMT-DT	DT	38	617	H	41.5	1000.000	0.050	0.04848	0.411	11.79%

TOTAL PERCENTAGE OF ANSI VALUE= 29.42%

*** The antenna heights indicated above are 2 meters less than the actual antenna heights so that the predicted power densities consider the 2 meter human height allowance.*