



**STATEMENT OF JOHN E. HIDLE, P.E.  
IN SUPPORT OF AN AMENDMENT  
TO APPLICATION FOR  
POST REPACK CONSTRUCTION PERMIT  
FILE # 0000027400  
WTTO - HOMewood, ALABAMA  
DTV - CH. 21 - 605 kW - 422 m HAAT**

Prepared for: WTTO LICENSEE, LLC

I am a Consulting Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Licensed Professional Engineer in the Commonwealth of Virginia, License No. 7418, and in the State of New York, License No. 63418.

#### **GENERAL**

This office has been authorized by WTTO LICENSEE, LLC, licensee of WTTO, channel 28, facility ID number 74138, licensed to Homewood, Alabama, to prepare this statement, FCC Form 2100, Schedule A, its technical sections, and the associated exhibits in support of an amendment to an application for construction permit, in accordance with the Incentive Auction Closing and Channel Reassignment Public Notice, DA 17-314, and the technical information provided in the confidential reassignment letter from the FCC announcing the substitution for DTV channel 28 with new DTV channel 21 to be used by WTTO for its post-reassignment broadcasting. The instant amendment corrects a typographical error in the relative field section of Form 2100, Schedule A.

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**DIRECTIONAL ANTENNA**

The applicant proposes to install a new Dielectric TFU-22GTH/VP-R 6T160 elliptically polarized directional transmitting antenna with its center of radiation located at a height above ground of 327.7 meters, and a height above average terrain of 423 meters. The antenna manufacturer's directional horizontal plane azimuth radiation pattern for the horizontally polarized component is shown and tabulated in exhibit 2. The manufacturer's horizontal plane azimuth pattern for the vertically polarized component is shown and tabulated in exhibit 3. The manufacturer's vertical plane elevation radiation pattern, illustrating the antenna's radiation characteristics above and below the horizontal plane is shown and tabulated in Exhibit 4.

**PREDICTED COVERAGE CONTOURS**

The predicted coverage contours were calculated in accordance with the method described in Section 73.625(b) of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), proposed Effective Radiated Power, and antenna height above average terrain as determined for each profile radial. The average terrain on the eight cardinal radials from 3 kilometers to 16 kilometers from the site, was determined using the NED Three Second US Terrain Database as permitted in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. Exhibit 1 shows the predicted Noise Limited (39.46 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Homewood, Alabama.

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**ALLOCATION CONSIDERATIONS**

***Post-Transition DTV Considerations***

A study was performed, using the FCC's software, tv\_study, v. 2.2.2, to determine if the instant application for construction permit is predicted to cause new prohibited interference to post reassignment DTV stations, construction permits, DTV allotments or Class A DTV stations. The study results, shown in Appendix B, indicate that the instant application for construction permit is predicted to cause no new interference exceeding 0.5% to the populations served by any post reassignment DTV station, construction permit, allotment or Class A DTV stations. The study also shows that WTTO's proposed service area is within the baseline plus 1%. (See Appendix B)

***International DTV Considerations***

The WTTO site is located more than 900 kilometers from the nearest points on both the US-Canadian border and US-Mexican border. Therefore no international coordination is required.

**BLANKETING AND INTERMODULATION INTERFERENCE**

Other broadcast and non-broadcast facilities are either co-located with, or located within 10 km of the proposed WTTO site. The applicant does recognize its responsibility to remedy complaints of interference that might result from this proposal in accordance with applicable Rules.

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**RADIO FREQUENCY IMPACT**

The FCC's guidelines and procedures for evaluating environmental effects of radio frequency (RF) emissions 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, LLC (IEEE) in ANSI/IEEE C95.1-1992 (IEEE C95.1-1991). The guidelines define a maximum permissible exposure (MPE) level for occupational or "controlled" situations, and for "uncontrolled" environments that apply in all other cases that might affect the general public. The FCC Office of Engineering and Technology's technical bulletin No. 65 entitled, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields" (Edition 97-01, August 1997), provides assistance to determine whether FCC-regulated transmitting facilities, operations or devices comply with guidelines for human exposure to radio frequency electromagnetic fields as adopted by the Commission in 1996. OET Bulletin No. 65 contains the technical information necessary to evaluate compliance with the FCC's policies and guidelines.

The Maximum Permitted Exposure (MPE) level for broadcast facilities that operate on a frequency between 30 MHZ and 300 MHZ is 200 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) for an "uncontrolled" environment, and is 1000 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) for a "controlled" environment. The MPE level for broadcast facilities that operate on a frequency between 300 MHZ and 1500 MHZ, primarily UHF TV stations, is determined for an "uncontrolled" environment by dividing the operating frequency in MHZ by 1.5, and is similarly determined for a "controlled" environment by dividing the operating

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frequency in MHZ by 0.3.

The predicted emissions of WTTO must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WTTO, which will operate on television Channel 21 (512-518 MHZ), the MPE is 343.33 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) in an "uncontrolled" environment and 1,716.7  $\mu\text{W}/\text{cm}^2$  in a "controlled" environment. The proposed WTTO facility will operate with a maximum ERP of 605 kW from an elliptically polarized directional transmitting antenna with a centerline height of 327.7 meters above ground level (AGL). Considering a conservative predicted vertical plane relative field factor of 0.300 the WTTO facility is predicted to produce a power density at two meters above ground level of 24.717  $\mu\text{W}/\text{cm}^2$ , which is 7.20% of the FCC guideline value for an "uncontrolled" environment, and 1.440% of the FCC's guideline value for "controlled" environments. There are three other full-power DTV facilities, five LPTV DTV facilities, four full-power FM stations and eleven LPFM facilities that are located at the WTTO site. The total estimated percentage of the ANSI value at the proposed site, including the cumulative radiation from all authorizations located within the relevant proximity, is 44.65% of the limit applicable to "uncontrolled" environments, and 8.930% of the limit for "controlled" environments. (See Appendix A)

**OCCUPATIONAL SAFETY**

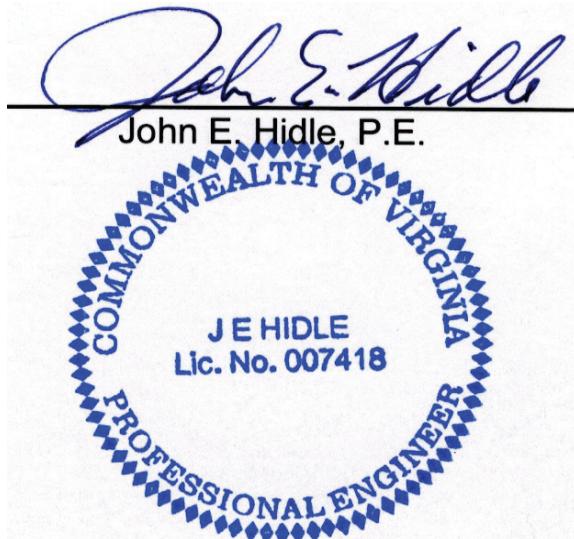
The licensee of WTTO is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WTTO antenna, and is committed to reducing power or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure protection to personnel.

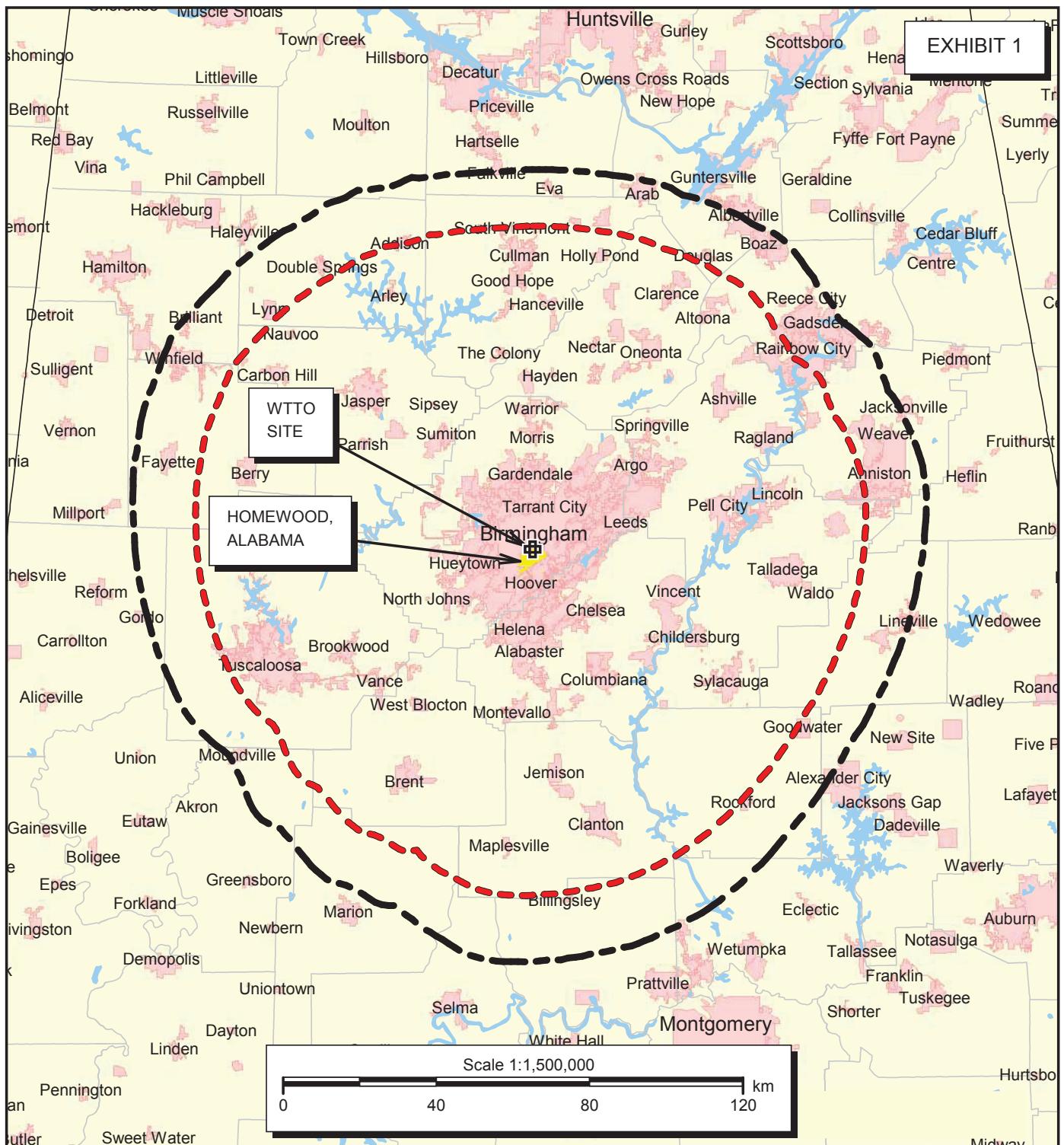
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**SUMMARY**

It is submitted that the instant amendment to an application for a construction permit to change WTTO from channel 28 to channel 21, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement, FCC Form 2100, its technical sections, and the attached exhibits were prepared by me or under my direct supervision and are believed to be true and correct to the best of my knowledge and belief.

DATED: July 25, 2017





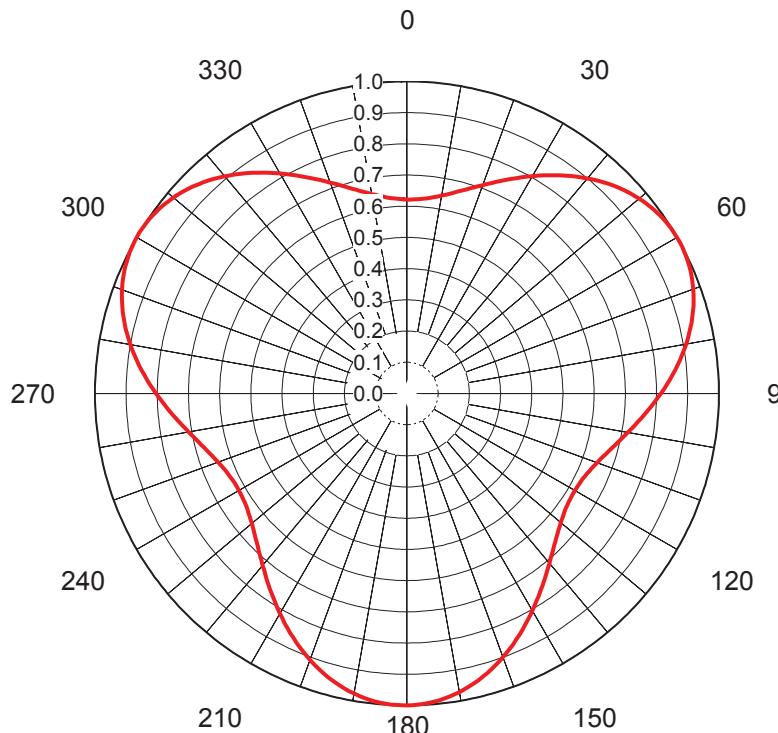
## PREDICTED COVERAGE CONTOURS

WTTO - HOMEOOD, ALABAMA  
DTV Channel 21 - 605 kW ERP - 422 M HAAT  
JUNE, 2017

Predicted Noise Limited 39.46 dBu  
F(50,90) Coverage Contour



Predicted Principal Community 48 dBu  
F(50,90) Coverage Contour



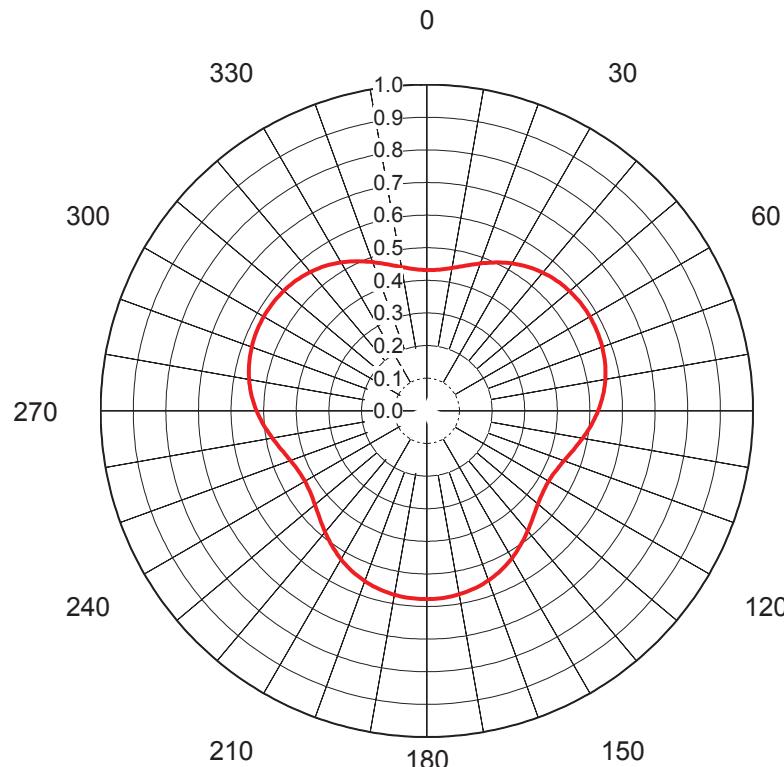
## AZIMUTH PATTERN Horizontal Polarization

Proposal No. C-70017  
 Date 3-Mar-17  
 Call Letters WTTO  
 Channel 21  
 Frequency 515 MHz  
 Antenna Type TFU-22GTH/VP-R 6T160  
 Gain 1.48 (1.71dB)  
 Calculated

Drawing # T160H D22

Deg	Value																		
0	0.622	36	0.863	72	0.966	108	0.660	144	0.746	180	1.000	216	0.756	252	0.654	288	0.960	324	0.873
1	0.622	37	0.873	73	0.960	109	0.654	145	0.756	181	1.000	217	0.746	253	0.660	289	0.966	325	0.863
2	0.622	38	0.882	74	0.954	110	0.649	146	0.765	182	0.999	218	0.737	254	0.666	290	0.972	326	0.854
3	0.623	39	0.891	75	0.947	111	0.644	147	0.775	183	0.998	219	0.728	255	0.673	291	0.977	327	0.844
4	0.625	40	0.900	76	0.940	112	0.640	148	0.785	184	0.997	220	0.719	256	0.680	292	0.981	328	0.834
5	0.627	41	0.909	77	0.933	113	0.636	149	0.794	185	0.995	221	0.711	257	0.687	293	0.985	329	0.824
6	0.629	42	0.917	78	0.925	114	0.632	150	0.804	186	0.992	222	0.702	258	0.694	294	0.989	330	0.814
7	0.632	43	0.925	79	0.917	115	0.629	151	0.814	187	0.989	223	0.695	259	0.702	295	0.992	331	0.804
8	0.636	44	0.933	80	0.909	116	0.627	152	0.824	188	0.985	224	0.687	260	0.711	296	0.995	332	0.794
9	0.640	45	0.940	81	0.900	117	0.625	153	0.834	189	0.981	225	0.680	261	0.719	297	0.997	333	0.785
10	0.644	46	0.947	82	0.891	118	0.623	154	0.844	190	0.977	226	0.673	262	0.728	298	0.998	334	0.775
11	0.649	47	0.954	83	0.882	119	0.622	155	0.854	191	0.972	227	0.666	263	0.737	299	0.999	335	0.765
12	0.654	48	0.960	84	0.873	120	0.622	156	0.863	192	0.966	228	0.660	264	0.746	300	1.000	336	0.756
13	0.660	49	0.966	85	0.863	121	0.622	157	0.873	193	0.960	229	0.654	265	0.756	301	1.000	337	0.746
14	0.666	50	0.972	86	0.854	122	0.622	158	0.882	194	0.954	230	0.649	266	0.765	302	0.999	338	0.737
15	0.673	51	0.977	87	0.844	123	0.623	159	0.891	195	0.947	231	0.644	267	0.775	303	0.998	339	0.728
16	0.680	52	0.981	88	0.834	124	0.625	160	0.900	196	0.940	232	0.640	268	0.785	304	0.997	340	0.719
17	0.687	53	0.985	89	0.824	125	0.627	161	0.909	197	0.933	233	0.636	269	0.794	305	0.995	341	0.711
18	0.694	54	0.989	90	0.814	126	0.629	162	0.917	198	0.925	234	0.632	270	0.804	306	0.992	342	0.702
19	0.702	55	0.992	91	0.804	127	0.632	163	0.925	199	0.917	235	0.629	271	0.814	307	0.989	343	0.695
20	0.711	56	0.995	92	0.794	128	0.636	164	0.933	200	0.909	236	0.627	272	0.824	308	0.985	344	0.687
21	0.719	57	0.997	93	0.785	129	0.640	165	0.940	201	0.900	237	0.625	273	0.834	309	0.981	345	0.680
22	0.728	58	0.998	94	0.775	130	0.644	166	0.947	202	0.891	238	0.623	274	0.844	310	0.977	346	0.673
23	0.737	59	0.999	95	0.765	131	0.649	167	0.954	203	0.882	239	0.622	275	0.854	311	0.972	347	0.666
24	0.746	60	1.000	96	0.756	132	0.654	168	0.960	204	0.873	240	0.622	276	0.863	312	0.966	348	0.660
25	0.756	61	1.000	97	0.746	133	0.660	169	0.966	205	0.863	241	0.622	277	0.873	313	0.960	349	0.654
26	0.765	62	0.999	98	0.737	134	0.666	170	0.972	206	0.854	242	0.622	278	0.882	314	0.954	350	0.649
27	0.775	63	0.998	99	0.728	135	0.673	171	0.977	207	0.844	243	0.623	279	0.891	315	0.947	351	0.644
28	0.785	64	0.997	100	0.719	136	0.680	172	0.981	208	0.834	244	0.625	280	0.900	316	0.940	352	0.640
29	0.794	65	0.995	101	0.711	137	0.687	173	0.985	209	0.824	245	0.627	281	0.909	317	0.933	353	0.636
30	0.804	66	0.992	102	0.702	138	0.694	174	0.989	210	0.814	246	0.629	282	0.917	318	0.925	354	0.632
31	0.814	67	0.989	103	0.695	139	0.702	175	0.992	211	0.804	247	0.632	283	0.925	319	0.917	355	0.629
32	0.824	68	0.985	104	0.687	140	0.711	176	0.995	212	0.794	248	0.636	284	0.933	320	0.909	356	0.627
33	0.834	69	0.981	105	0.680	141	0.719	177	0.997	213	0.785	249	0.640	285	0.940	321	0.900	357	0.625
34	0.844	70	0.977	106	0.673	142	0.728	178	0.998	214	0.775	250	0.644	286	0.947	322	0.891	358	0.623
35	0.854	71	0.972	107	0.666	143	0.737	179	0.999	215	0.765	251	0.649	287	0.954	323	0.882	359	0.622

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## AZIMUTH PATTERN Vertical Polarization

Proposal No. C-70017  
 Date 3-Mar-17  
 Call Letters WTTO  
 Channel 21  
 Frequency 515 MHz  
 Antenna Type TFU-22GTH/VP-R 6T160  
 Gain 1.25 (0.97dB)  
 Calculated

Drawing # T160V D22

Deg	Value																
0	0.432	36	0.542	72	0.570	108	0.454	144	0.498	180	0.577	216	0.502	252	0.451	288	0.569
1	0.432	37	0.545	73	0.569	109	0.451	145	0.502	181	0.577	217	0.498	253	0.454	289	0.570
2	0.432	38	0.548	74	0.567	110	0.448	146	0.506	182	0.577	218	0.493	254	0.457	290	0.571
3	0.432	39	0.551	75	0.566	111	0.445	147	0.510	183	0.577	219	0.489	255	0.461	291	0.572
4	0.433	40	0.553	76	0.564	112	0.442	148	0.514	184	0.577	220	0.485	256	0.465	292	0.573
5	0.435	41	0.556	77	0.562	113	0.440	149	0.518	185	0.576	221	0.481	257	0.469	293	0.574
6	0.436	42	0.558	78	0.560	114	0.438	150	0.522	186	0.576	222	0.477	258	0.473	294	0.575
7	0.438	43	0.560	79	0.558	115	0.436	151	0.525	187	0.575	223	0.473	259	0.477	295	0.576
8	0.440	44	0.562	80	0.556	116	0.435	152	0.529	188	0.574	224	0.469	260	0.481	296	0.576
9	0.442	45	0.564	81	0.553	117	0.433	153	0.533	189	0.573	225	0.465	261	0.485	297	0.577
10	0.445	46	0.566	82	0.551	118	0.432	154	0.536	190	0.572	226	0.461	262	0.489	298	0.577
11	0.448	47	0.567	83	0.548	119	0.432	155	0.539	191	0.571	227	0.457	263	0.493	299	0.577
12	0.451	48	0.569	84	0.545	120	0.432	156	0.542	192	0.570	228	0.454	264	0.498	300	0.577
13	0.454	49	0.570	85	0.542	121	0.432	157	0.545	193	0.569	229	0.451	265	0.502	301	0.577
14	0.457	50	0.571	86	0.539	122	0.432	158	0.548	194	0.567	230	0.448	266	0.506	302	0.577
15	0.461	51	0.572	87	0.536	123	0.432	159	0.551	195	0.566	231	0.445	267	0.510	303	0.577
16	0.465	52	0.573	88	0.533	124	0.433	160	0.553	196	0.564	232	0.442	268	0.514	304	0.577
17	0.469	53	0.574	89	0.529	125	0.435	161	0.556	197	0.562	233	0.440	269	0.518	305	0.576
18	0.473	54	0.575	90	0.525	126	0.436	162	0.558	198	0.560	234	0.438	270	0.522	306	0.576
19	0.477	55	0.576	91	0.522	127	0.438	163	0.560	199	0.558	235	0.436	271	0.525	307	0.575
20	0.481	56	0.576	92	0.518	128	0.440	164	0.562	200	0.556	236	0.435	272	0.529	308	0.574
21	0.485	57	0.577	93	0.514	129	0.442	165	0.564	201	0.553	237	0.433	273	0.533	309	0.573
22	0.489	58	0.577	94	0.510	130	0.445	166	0.566	202	0.551	238	0.432	274	0.536	310	0.572
23	0.493	59	0.577	95	0.506	131	0.448	167	0.567	203	0.548	239	0.432	275	0.539	311	0.571
24	0.498	60	0.577	96	0.502	132	0.451	168	0.569	204	0.545	240	0.432	276	0.542	312	0.570
25	0.502	61	0.577	97	0.498	133	0.454	169	0.570	205	0.542	241	0.432	277	0.545	313	0.569
26	0.506	62	0.577	98	0.493	134	0.457	170	0.571	206	0.539	242	0.432	278	0.548	314	0.567
27	0.510	63	0.577	99	0.489	135	0.461	171	0.572	207	0.536	243	0.432	279	0.551	315	0.566
28	0.514	64	0.577	100	0.485	136	0.465	172	0.573	208	0.533	244	0.433	280	0.553	316	0.564
29	0.518	65	0.576	101	0.481	137	0.469	173	0.574	209	0.529	245	0.435	281	0.556	317	0.562
30	0.522	66	0.576	102	0.477	138	0.473	174	0.575	210	0.525	246	0.436	282	0.558	318	0.560
31	0.525	67	0.575	103	0.473	139	0.477	175	0.576	211	0.522	247	0.438	283	0.560	319	0.558
32	0.529	68	0.574	104	0.469	140	0.481	176	0.576	212	0.518	248	0.440	284	0.562	320	0.556
33	0.533	69	0.573	105	0.465	141	0.485	177	0.577	213	0.514	249	0.442	285	0.564	321	0.553
34	0.536	70	0.572	106	0.461	142	0.489	178	0.577	214	0.510	250	0.445	286	0.566	322	0.551
35	0.539	71	0.571	107	0.457	143	0.493	179	0.577	215	0.506	251	0.448	287	0.567	323	0.548

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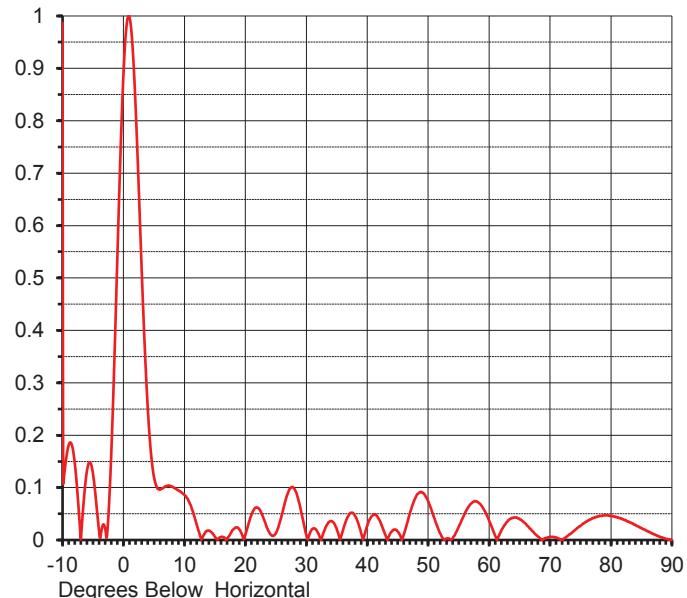
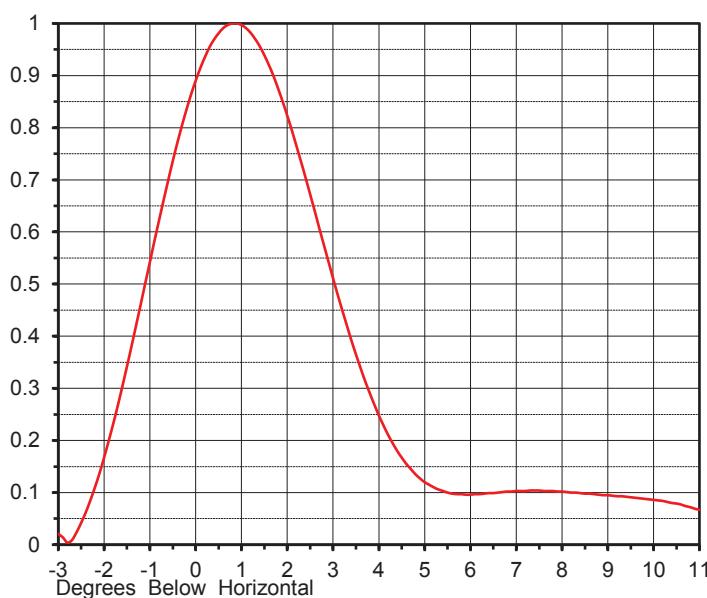
## ELEVATION PATTERN

Proposal No. C-70017  
 Date 3-Mar-17  
 Call Letters WTTO  
 Channel 21  
 Frequency 515 MHz  
 Antenna Type TFU-22GTH/VP-R 6T160

RMS Directivity at Main Lobe  
 RMS Directivity at Horizontal

**19.0 ( 12.79 dB )**  
**15.0 ( 11.76 dB )**  
 Calculated

Beam Tilt 0.75 deg  
 Drawing Number 22G190075



Angle	Field								
-10.0	0.987	10.0	0.086	30.0	0.010	50.0	0.074	70.0	0.006
-9.0	0.181	11.0	0.067	31.0	0.021	51.0	0.042	71.0	0.005
-8.0	0.147	12.0	0.030	32.0	0.012	52.0	0.012	72.0	0.001
-7.0	0.001	13.0	0.006	33.0	0.019	53.0	0.003	73.0	0.009
-6.0	0.132	14.0	0.018	34.0	0.036	54.0	0.003	74.0	0.018
-5.0	0.126	15.0	0.006	35.0	0.021	55.0	0.025	75.0	0.027
-4.0	0.016	16.0	0.006	36.0	0.018	56.0	0.050	76.0	0.035
-3.0	0.021	17.0	0.002	37.0	0.048	57.0	0.069	77.0	0.042
-2.0	0.167	18.0	0.020	38.0	0.046	58.0	0.073	78.0	0.045
-1.0	0.542	19.0	0.020	39.0	0.013	59.0	0.061	79.0	0.047
0.0	0.890	20.0	0.010	40.0	0.027	60.0	0.037	80.0	0.046
1.0	0.997	21.0	0.048	41.0	0.048	61.0	0.008	81.0	0.043
2.0	0.823	22.0	0.062	42.0	0.038	62.0	0.018	82.0	0.039
3.0	0.511	23.0	0.041	43.0	0.009	63.0	0.035	83.0	0.034
4.0	0.248	24.0	0.013	44.0	0.016	64.0	0.043	84.0	0.029
5.0	0.120	25.0	0.013	45.0	0.016	65.0	0.040	85.0	0.023
6.0	0.096	26.0	0.049	46.0	0.010	66.0	0.031	86.0	0.017
7.0	0.103	27.0	0.090	47.0	0.051	67.0	0.018	87.0	0.011
8.0	0.102	28.0	0.098	48.0	0.083	68.0	0.007	88.0	0.006
9.0	0.095	29.0	0.063	49.0	0.091	69.0	0.002	89.0	0.002
									90.0 0.000

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**SUMMARY OF RADIOFREQUENCY  
RADIATION STUDY**  
WTTO, Homewood, AL  
Channel 21, 605 kW, 422 m HAAT  
June, 2017

CALL	SERVICE	CHANNEL	FREQUENCY	POLARIZATION	ANTENNA HEIGHT	ERP (kW)	VERT. RELATIVE FIELD FACTOR	WORST-CASE PREDICTED POWER DENSITY (mW/cm²)	WORST-CASE PREDICTED POWER DENSITY (μW/cm²)	FCC UNCONTROLLED LIMIT (μW/cm²)	PERCENT OF UNCONTROLLED LIMIT
WABM**	DT	20	509	H	306.5	626.000	0.300	0.02030	20.301	339.33	5.98%
WABM**	DT	20	509	V	306.5	268.300	0.300	0.00870	8.701	339.33	2.56%
WTTO***	DT	21	515	H	327.7	654.000	0.300	0.01854	18.538	343.33	5.40%
WTTO***	DT	21	515	V	327.7	218.000	0.300	0.00618	6.179	343.33	1.80%
WIAT	DT	30	569	H	326.4	1000.000	0.300	0.02857	28.573	379.33	7.53%
WVUA	DT	6	85	H & V	307	26.000	0.300	0.00168	1.681	200.00	0.84%
WUOA-LD (CP)	DT	17	491	H	115.8	15.000	0.300	0.00348	3.483	327.33	1.06%
W21DM-D (APP)	DT	21	515	H	115.8	10.000	0.300	0.00232	2.322	343.33	0.68%
WBXA-CD	DT	24	533	H	100	10.000	0.300	0.00313	3.131	355.33	0.88%
WBUN-CD	DT	27	551	H	176	15.000	0.300	0.00149	1.490	367.33	0.41%
W47EI-D	DT	16	485	H	93	7.830	0.300	0.00284	2.843	323.33	0.88%
WZZK-FM	FM	284	104.7	H & V	308	97.800	<note 1>	0.00064	0.644	200.00	0.32%
WBPT	FM	295	106.9	H & V	308	97.000	<note 2>	0.01542	15.420	200.00	7.71%
WUHT	FM	299	107.7	H & V	308.3	42.000	<note 2>	0.00669	6.685	200.00	3.34%
WERC-FM	FM	288	105.5	H & V	94	29.500	<note 3>	0.00726	7.260	200.00	3.63%
WBFR (CP)	FM	208	89.5	H & V	87	0.210	1.000	0.00194	1.942	200.00	0.97%
W210CA	FM	210	89.9	H & V	258	0.180	1.000	0.00018	0.184	200.00	0.09%
W241AI	FM	241	96.1	H & V	250	0.099	1.000	0.00011	0.108	200.00	0.05%
W252BE (APP)	FM	252	98.3	H & V	136	0.100	1.000	0.00037	0.372	200.00	0.19%
W256CD (CP)	FM	256	99.1	H & V	258	0.130	1.000	0.00013	0.133	200.00	0.07%
W261BX	FM	261	100.1	H & V	258	0.035	1.000	0.00004	0.036	200.00	0.02%
W271BNAI	FM	271	102.1	H	258	0.085	1.000	0.00004	0.043	200.00	0.02%
W276BQ (CP)	FM	276	103.1	H & V	344	0.250	1.000	0.00014	0.143	200.00	0.07%
W281AB	FM	281	104.1	H	250	0.250	1.000	0.00014	0.136	200.00	0.07%
W286BK	FM	286	105.1	H	190	0.099	1.000	0.00009	0.094	200.00	0.05%
W297BF	FM	297	107.3	H	258	0.099	1.000	0.00005	0.050	200.00	0.03%

**TOTAL PERCENTAGE OF FCC GUIDELINE VALUE = 44.65%**

\* For television stations a very conservative vertical relative field factor of 0.3 was assumed pursuant to OET Bulletin 65.

\*\* WABM is proposing elliptical polarization, the table above includes both the proposed horizontal and vertical power levels

\*\*\*WTTO is proposing elliptical polarization, the table above includes both the proposed horizontal and vertical power levels

note 1: FM Model Antenna: EPA Type 1; 8-bay, 0.5 wavelength spaced antenna

note 2: FM Model Antenna: EPA Type 1; 8-bay, 0.94 wavelength spaced antenna

note 3: Per the WERC-FM Application for Construction Permit, FCC File No. BPH-20030113ACN, the maximum ground level power density is 7.26 μW/cm².



## WTTO - HOMewood, ALABAMA Longley-Rice Interference Analysis

tvstudy v2.2.2

Database: localhost, Study: WTTO\_21\_422H\_605K\_APP, Model: Longley-Rice  
Start: 2017.06.14 13:00:45

Study created: 2017.06.14 13:00:38

Study build station data: LMS TV 2017-06-13 (16)

Proposal: WTTO D21 DT APP HOMewood, AL  
File number: WTTO\_21\_422H\_605K\_APP  
Facility ID: 74138  
Station data: User record  
Record ID: 611  
Country: U.S.  
Zone: II

Non-U.S. records included

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WABM	D20	DT	BL	BIRMINGHAM, AL	DTVBL16820	0.0 km
WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	286.2
WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	230.8
WAPT	D21	DT	LIC	JACKSON, MS	BLCDT20081126ALZ	352.0
WJKT	D21	DT	BL	JACKSON, TN	DTVBL68519	331.3
WUXP-TV	D21	DT	LIC	NASHVILLE, TN	BLCDT20060414AAU	308.9
WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	151.2
WCov-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	178.3
WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	231.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D21  
Latitude: 33 29 4.80 N (NAD83)  
Longitude: 86 48 25.20 W  
Height AMSL: 616.4 m  
HAAT: 422.0 m  
Peak ERP: 605 kW  
Antenna: DIE-TFU-22GTH VP-R 6T160 350.0 deg

39.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	251 kW	437.0 m	99.4 km
45.0	588	382.2	102.9
90.0	313	411.8	99.5
135.0	347	416.1	100.8
180.0	577	431.5	107.0
225.0	244	426.8	98.4
270.0	490	436.3	105.8

## Appendix B - Interference Analysis

WTTO - Homewood, Alabama

Channel 21 - 605 kW - Page 2

315.0      449      433.1      104.6

Proposal service area is within baseline plus 1.0%  
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 980.1 km

Distance to Mexican border: 1283.3 km

Conditions at FCC monitoring station: Powder Springs GA  
Bearing: 77.1 degrees   Distance: 197.2 km  
ERP: 428 kW   Field strength: 19.2 dBu, 0.0 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 299.6 degrees   Distance: 1792.8 km

No land mobile station failures found

Study cell size: 2.00 km  
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

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Interference to DTVBL16820 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WABM	D20	DT	BL	BIRMINGHAM, AL	DTVBL16820	
Undesireds:	WTTO	D21	DT	BL	HOMWOOD, AL	DTVBL74138	0.0 km
	WTTO	D21	DT	APP	HOMWOOD, AL	WTTO_21_422H_605K_APP	0.0
	WIIQ	D19	DT	LIC	DEMOPOLIS, AL	BLEDT20090511AHE	159.6
	WHNT-TV	D19	DT	LIC	HUNTSVILLE, AL	BLCDT20111118COZ	141.7
	WIYC	D19	DT	BL	TROY, AL	DTVBL62207	177.4
	WKRG-TV	D20	DT	BL	MOBILE, AL	DTVBL73187	325.3
	WANN-CD	D20	DC	BL	ATLANTA, GA	DTVBL168812	231.1
	WDNN-CD	D20	DC	BL	DALTON, GA	DTVBL49236	215.4
	WBII-CD	D20	DC	LIC	HOLLY SPRINGS, MS	BLDTA20090513AFM	264.5
	WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	365.5
	WZTV	D20	DT	BL	NASHVILLE, TN	DTVBL418	308.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29991.1    1,703,010	28954.5    1,677,980	28381.3    1,667,913	28353.2    1,667,090	0.10    0.05

Undesired	Total IX	Unique IX, before	Unique IX, after
WTTO D21 DT BL	80.2	3,064	80.2    3,064
WTTO D21 DT APP	108.3	3,887	108.3    3,887
WIIQ D19 DT LIC	76.2	232	44.1    87
WHNT-TV D19 DT LIC	36.0	967	20.0    704
WKRG-TV D20 DT BL	292.9	1,667	232.8    1,116
WANN-CD D20 DC BL	31.9	376	31.9    376
WDNN-CD D20 DC BL	12.0	874	12.0    874
WMPN-TV D20 DT LIC	48.0	1,085	16.0    653
WZTV D20 DT BL	76.1	2,642	60.1    2,379

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Interference to BLCDT20090303ACR LIC, scenario 1

## Appendix B - Interference Analysis

### WTTO - Homewood, Alabama

#### Channel 21 - 605 kW - Page 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	
Undesireds:	WTTO	D21	DT	BL	HOMWOOD, AL	DTVBL74138	286.2 km
	WTTO	D21	DT	APP	HOMWOOD, AL	WTTO_21_422H_605K_APP	286.2
	WCTV	D20	DT	BL	THOMASVILLE, GA	DTVBL31590	145.3
	WJEB-TV	D21	DT	BL	JACKSONVILLE, FL	DTVBL29719	373.6
	WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	294.5
	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	114.6
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	147.7
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	125.9
	WTWC-TV	D22	DT	BL	TALLAHASSEE, FL	DTVBL66908	142.0

Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
22899.1	452,377	22746.1	451,978	22381.1	450,347	22389.2	450,352 -0.04 -0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WTTO D21 DT BL	121.0	251	52.5 120
WTTO D21 DT APP	108.8	214	44.4 115
WCTV D20 DT BL	11.9	30	0.0 0
WPBA D21 DT LIC	16.2	41	0.0 0
WCOV-TV D22 DT BL	264.5	1,226	208.2 1,136 212.2 1,168
WTWC-TV D22 DT BL	35.8	244	23.9 214 23.9 214

#### Interference to BLEDT20041013ABK LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	
Undesireds:	WTTO	D21	DT	BL	HOMWOOD, AL	DTVBL74138	230.8 km
	WTTO	D21	DT	APP	HOMWOOD, AL	WTTO_21_422H_605K_APP	230.8
	WANN-CD	D20	DC	BL	ATLANTA, GA	DTVBL168812	5.4
	WDNN-CD	D20	DC	BL	DALTON, GA	DTVBL49236	125.1
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	294.5
	WEBA-TV	D21	DT	BL	ALLENDALE, SC	DTVBL61003	279.7
	WUXP-TV	D21	DT	LIC	NASHVILLE, TN	BLCDT20060414AAU	357.2
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	5.4

Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
17319.4	5,217,180	17127.4	5,200,958	15302.2	4,841,310	15302.2	4,841,235 0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WTTO D21 DT BL	296.3	38,605	148.2 22,132
WTTO D21 DT APP	292.3	37,861	148.2 22,207
WANN-CD D20 DC BL	936.2	177,655	80.1 10,622 80.1 10,622
WDNN-CD D20 DC BL	24.0	2,184	0.0 0 0.0 0
WDHN D21 DT LIC	52.0	7,281	19.9 100 19.9 100
WEBA-TV D21 DT BL	24.1	1,426	8.0 47 8.0 47
WUXP-TV D21 DT LIC	48.0	7,955	12.0 1,969 12.0 1,969
WHSG-TV D22 DT BL	1528.9	321,669	612.7 144,490 616.7 145,309

#### Interference to BLCDT20081126ALZ LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WAPT	D21	DT	LIC	JACKSON, MS	BLCDT20081126ALZ	
Undesireds:	WTTO	D21	DT	BL	HOMWOOD, AL	DTVBL74138	352.0 km
	WTTO	D21	DT	APP	HOMWOOD, AL	WTTO_21_422H_605K_APP	352.0
	WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	14.2

## Appendix B - Interference Analysis

WTTO - Homewood, Alabama

Channel 21 - 605 kW - Page 4

WBRL-CD	D21	DC	LIC	BATON ROUGE, LA	BLDTA20100908AAP	236.2
WHNO	D21	DT	LIC	NEW ORLEANS, LA	BLCDT20050413AAK	263.3
KMCT-TV	D22	DT	BL	WEST MONROE, LA	DTVBL38584	175.9
WHLT	D22	DT	APP	HATTIESBURG, MS	BLANK0000002705	139.2

Service area	Terrain-limited			IX-free, before	IX-free, after	Percent New IX
30301.7	793,621	30173.9	791,620	27881.4	771,484	27881.4

Undesired	Total IX	Unique IX, before	Unique IX, after
WTTO D21 DT BL	4.0	21	4.0
WTTO D21 DT APP	4.0	21	4.0
WMPN-TV D20 DT LIC	1829.4	15,005	1817.4
WHNO D21 DT LIC	271.0	2,184	155.2
WHLT D22 DT APP	304.0	3,895	200.1

### Interference to BLCDT20081126ALZ LIC, scenario 2

Desired:	Call WAPT	Chan D21	Svc DT	Status LIC	City, State JACKSON, MS	File Number BLCDT20081126ALZ	Distance
Undesireds:	WTTO	D21	DT	BL	HOMewood, AL	DTVBL74138	352.0 km
	WTTO	D21	DT	APP	HOMewood, AL	WTTO_21_422H_605K_APP	352.0
	WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	14.2
	WBRL-CD	D21	DC	LIC	BATON ROUGE, LA	BLDTA20100908AAP	236.2
	WHNO	D21	DT	LIC	NEW ORLEANS, LA	BLCDT20050413AAK	263.3
	KMCT-TV	D22	DT	BL	WEST MONROE, LA	DTVBL38584	175.9
	WHLT	D22	DT	LIC	HATTIESBURG, MS	BLCDT20091216AAL	139.2

Service area	Terrain-limited			IX-free, before	IX-free, after	Percent New IX
30301.7	793,621	30173.9	791,620	27889.4	771,456	27889.4

Undesired	Total IX	Unique IX, before	Unique IX, after
WTTO D21 DT BL	4.0	21	4.0
WTTO D21 DT APP	4.0	21	4.0
WMPN-TV D20 DT LIC	1829.4	15,005	1817.4
WHNO D21 DT LIC	271.0	2,184	155.2
WHLT D22 DT LIC	295.9	3,923	192.1

### Interference to DTVBL68519 BL, scenario 1

Desired:	Call WJKT	Chan D21	Svc DT	Status BL	City, State JACKSON, TN	File Number DTVBL68519	Distance
Undesireds:	WTTO	D21	DT	BL	HOMewood, AL	DTVBL74138	331.3 km
	WTTO	D21	DT	APP	HOMewood, AL	WTTO_21_422H_605K_APP	331.3
	KTEJ	D20	DT	LIC	JONESBORO, AR	BLEDT20110818AAQ	150.7
	WBII-CD	D20	DC	LIC	HOLLY SPRINGS, MS	BLDTA20090513AFM	106.3
	KEFN-CD	D21	DC	BL	ST. LOUIS, MO	DTVBL9375	314.9
	WUXP-TV	D21	DT	LIC	NASHVILLE, TN	BLCDT20060414AAU	214.2
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	180.3

Service area	Terrain-limited			IX-free, before	IX-free, after	Percent New IX
24007.0	662,459	23923.0	661,966	23668.4	658,132	23668.4

Undesired	Total IX	Unique IX, before	Unique IX, after
WTTO D21 DT BL	16.1	221	4.0
WTTO D21 DT APP	16.1	221	4.0
KTEJ D20 DT LIC	4.0	0	4.0
WBII-CD D20 DC LIC	150.3	1,912	146.4

## Appendix B - Interference Analysis

WTTO - Homewood, Alabama

Channel 21 - 605 kW - Page 5

WUXP-TV D21 DT LIC	96.2	1,903	88.1	1,799	88.1	1,799
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### Interference to BLCDT20060414AAU LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WUXP-TV	D21	DT	LIC	NASHVILLE, TN	BLCDT20060414AAU	
Undesireds:	WTTO	D21	DT	BL	HOMWOOD, AL	DTVBL74138	308.9 km
	WTTO	D21	DT	APP	HOMWOOD, AL	WTTO_21_422H_605K_APP	308.9
	WTSN-CD	D20	DC	LIC	EVANSVILLE, IN	BLDTL20120328AJA	196.1
	WZTV	D20	DT	BL	NASHVILLE, TN	DTVBL418	0.0
	WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	357.2
	WRLW-CD	D21	DC	BL	SALEM, IN	DTVBL55315	267.0
	WKYT-TV	D21	DT	BL	LEXINGTON, KY	DTVBL24914	289.5
	WJKT	D21	DT	BL	JACKSON, TN	DTVBL68519	214.2
	WTWV	D22	DT	BL	EVANSVILLE, IN	DTVBL3661	202.0
	WCETE	D22	DT	LIC	COOKEVILLE, TN	BLEDT20110413ACS	130.5

Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
33232.6	2,316,872	32320.9	2,305,293	31040.7	2,267,051	31032.7	2,267,017

Undesired	Total IX	Unique IX, before	Unique IX, after
WTTO D21 DT BL	153.5	3,952	80.9 1,324
WTTO D21 DT APP	161.5	3,980	89.0 1,358
WZTV D20 DT BL	8.0	124	8.0 124
WKYT-TV D21 DT BL	312.1	7,231	192.1 3,994
WJKT D21 DT BL	421.8	5,227	309.1 3,016
WCETE D22 DT LIC	601.6	28,574	501.5 24,192

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### Interference to BLEDT20060718ACG LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	
Undesireds:	WTTO	D21	DT	BL	HOMWOOD, AL	DTVBL74138	151.2 km
	WTTO	D21	DT	APP	HOMWOOD, AL	WTTO_21_422H_605K_APP	151.2
	WJKT	D21	DT	BL	JACKSON, TN	DTVBL68519	180.3
	WCOT-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	326.2
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	328.0
	WHLT	D22	DT	APP	HATTIESBURG, MS	BLANK0000002705	377.8
	WCETE	D22	DT	LIC	COOKEVILLE, TN	BLEDT20110413ACS	283.5
	WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	159.6

Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
20448.9	546,563	20252.8	544,258	20112.5	541,458	20108.5	541,295

Undesired	Total IX	Unique IX, before	Unique IX, after
WTTO D21 DT BL	72.1	1,584	36.1 799
WTTO D21 DT APP	76.1	1,747	40.1 962
WCOT-TV D22 DT BL	88.2	1,910	52.1 1,037
WHSG-TV D22 DT BL	16.0	189	0.0 0
WCETE D22 DT LIC	12.0	91	8.0 32

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### Interference to BLEDT20060718ACG LIC, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	

## Appendix B - Interference Analysis

### WTTO - Homewood, Alabama

#### Channel 21 - 605 kW - Page 6

Undesireds:	WTTO	D21	DT	BL	HOMEWOOD, AL	DTVBL74138	151.2 km
	WTTO	D21	DT	APP	HOMEWOOD, AL	WTTO_21_422H_605K_APP	151.2
	WJKT	D21	DT	BL	JACKSON, TN	DTVBL68519	180.3
	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	326.2
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	328.0
	WHLT	D22	DT	LIC	HATTIESBURG, MS	BLCDT20091216AAL	377.7
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLEDT20110413ACS	283.5
	WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	159.6

Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
20448.9	546,563	20252.8	544,258	20112.5	541,458	20108.5	541,295

Undesired	Total IX	Unique IX, before		Unique IX, after	
WTTO D21 DT BL	72.1	1,584	36.1	799	
WTTO D21 DT APP	76.1	1,747		40.1	962
WCOV-TV D22 DT BL	88.2	1,910	52.1	1,037	52.1
WHSG-TV D22 DT BL	16.0	189	0.0	0	0.0
WCTE D22 DT LIC	12.0	91	8.0	32	32

#### Interference to DTVBL73642 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	
Undesireds:	WTTO	D21	DT	BL	HOMEWOOD, AL	DTVBL74138	178.3 km
	WTTO	D21	DT	APP	HOMEWOOD, AL	WTTO_21_422H_605K_APP	178.3
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	114.6
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	326.2
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	178.4
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	202.6
	WTWC-TV	D22	DT	BL	TALLAHASSEE, FL	DTVBL66908	252.8
	WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	265.4
	WHLT	D22	DT	APP	HATTIESBURG, MS	BLANK0000002705	297.6
	WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	159.8
	WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	182.8

Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
34289.6	862,899	33988.7	858,839	32639.1	835,545	32643.1	835,545

Undesired	Total IX	Unique IX, before		Unique IX, after	
WTTO D21 DT BL	24.0	248	16.0	133	
WTTO D21 DT APP	20.0	248		12.0	133
WDHN D21 DT LIC	368.8	12,004	210.2	7,308	210.2
WFIQ D22 DT LIC	64.3	542	12.1	68	12.1
WTWC-TV D22 DT BL	443.7	10,683	180.2	2,952	180.2
WHSG-TV D22 DT BL	402.3	5,915	269.3	2,566	269.3
WHLT D22 DT APP	390.3	2,419	346.1	2,062	346.1

#### Interference to DTVBL73642 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	
Undesireds:	WTTO	D21	DT	BL	HOMEWOOD, AL	DTVBL74138	178.3 km
	WTTO	D21	DT	APP	HOMEWOOD, AL	WTTO_21_422H_605K_APP	178.3
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	114.6
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	326.2
	WDES-CD	D22	DC	BL	DESTIN, FL	DTVBL4353	178.4
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLDTA20141222AAC	202.6

## Appendix B - Interference Analysis

### WTTO - Homewood, Alabama

#### Channel 21 - 605 kW - Page 7

WTWC-TV	D22	DT	BL	TALLAHASSEE, FL	DTVBL66908	252.8
WHSG-TV	D22	DT	BL	MONROE, GA	DTVBL68058	265.4
WHLT	D22	DT	LIC	HATTIESBURG, MS	BLCDT20091216AAL	297.6
WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	159.8
WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	182.8

Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
34289.6	862,899	33988.7	858,839	32619.0	835,528	32623.0	835,528

Undesired	Total IX	Unique IX, before	Unique IX, after
WTTO D21 DT BL	24.0	248	16.0
WTTO D21 DT APP	20.0	248	12.0
WDHN D21 DT LIC	368.8	12,004	210.2
WFIQ D22 DT LIC	64.3	542	16.1
WTWC-TV D22 DT BL	443.7	10,683	180.2
WHSG-TV D22 DT BL	402.3	5,915	269.3
WHLT D22 DT LIC	406.3	2,323	366.2

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Interference to DTVBL68058 BL, scenario 1

Proposal causes no interference.

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Interference to proposal, scenario 1

1.46% interference

Desired:	Call WTTO	Chan D21	Svc DT	Status APP	City, State HOMewood, AL	File Number WTTO_21_422H_605K_APP	Distance
Undesireds:	WABM	D20	DT	BL	BIRMINGHAM, AL	DTVBL16820	0.0 km
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	286.2
	WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	230.8
	WAPT	D21	DT	LIC	JACKSON, MS	BLCDT20081126ALZ	352.0
	WJKT	D21	DT	BL	JACKSON, TN	DTVBL68519	331.3
	WUXP-TV	D21	DT	LIC	NASHVILLE, TN	BLCDT20060414AAU	308.9
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	151.2
	WCOV-TV	D22	DT	BL	MONTGOMERY, AL	DTVBL73642	178.3

Service area	Terrain-limited		IX-free		Percent IX	
32873.1	1,811,477	31796.2	1,783,764	30782.5	1,757,662	3.19 1.46

Undesired	Total IX	Unique IX	Prcnt Unique IX	Unique IX
WDHN D21 DT LIC	625.2	12,561	344.5	6,859
WPBA D21 DT LIC	139.9	3,448	64.0	1,892
WAPT D21 DT LIC	136.1	2,724	96.0	2,491
WJKT D21 DT BL	20.0	202	8.0	16
WUXP-TV D21 DT LIC	116.0	8,010	104.0	7,803
WCOV-TV D22 DT BL	285.2	5,267	100.4	1,116