



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN AMENDMENT
TO AN APPLICATION FOR
POST REPACK CONSTRUCTION PERMIT
FILE # 0000025692
WDBB - BESSEMER, ALABAMA
DTV - CH. 14 - 310 kW - 668 m HAAT**

Prepared for: WDBB-TV, INC.

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 WDBB-TV, INC., licensee of WDBB, channel 18, facility ID number 71325, licensed to Bessemer, Alabama, to prepare this statement, FCC Form 2100, Schedule A, its technical sections, and the associated exhibits in support of an amendment to WDBB's 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 18 with new DTV channel 14 to be used by WDBB for its post-reassignment broadcasting. The instant amendment is to comply with the 1% contour expansion limit by reducing proposed the ERP from 317 kW to 310 kW.

DIRECTIONAL ANTENNA

The applicant proposes to install a new Dielectric TFU-24ETT/VP-R CT160 elliptically polarized directional transmitting antenna with its center of radiation located at a height above ground of 599.3 meters, and a height above average terrain of 668 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 (38.72 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Bessemer, Alabama.

ALLOCATION CONSIDERATIONS

Post-Transition DTV Considerations

A new study was performed, using the FCC's latest version of tv_study, v. 2.2.3, 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 new study results, shown in amended Appendix B, indicate that the instant amendment to WDBB's 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 new study also shows that WDBB's proposed amended service area is within the baseline plus 1%. (See Appendix B)

International DTV Considerations

The WDBB site is located more than 1000 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 WDBB site. The applicant does recognize its responsibility to remedy complaints of interference that might result from this proposal in accordance with applicable Rules.

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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WDBB - Bessemer, Alabama
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frequency in MHZ by 0.3.

The predicted emissions of WDBB must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WDBB, which will operate on television Channel 14 (470-476 MHZ), the MPE is 315.33 microwatts per centimeter squared ($\mu\text{W}/\text{cm}^2$) in an "uncontrolled" environment and 1,576.7 $\mu\text{W}/\text{cm}^2$ in a "controlled" environment. The proposed WDBB facility will operate with a maximum ERP of 310 kW from an elliptically polarized directional transmitting antenna with a centerline height of 599.3 meters above ground level (AGL). Considering a conservative predicted vertical plane relative field factor of 0.300 the WDBB facility is predicted to produce a power density at two meters above ground level of 5.225 $\mu\text{W}/\text{cm}^2$, which is 1.66% of the FCC guideline value for an "uncontrolled" environment, and 0.332% of the FCC's guideline value for "controlled" environments. There are no other broadcast facilities located at the WDBB site. Therefore the total estimated percentage of the ANSI value at the proposed site is only that contributed by WDBB: 1.66% of the limit applicable to "uncontrolled" environments, and 0.332% of the limit for "controlled" environments. (See Appendix A)

OCCUPATIONAL SAFETY

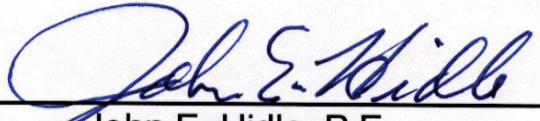
The licensee of WDBB is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WDBB antenna, and is committed to reducing power or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure protection to personnel.

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SUMMARY

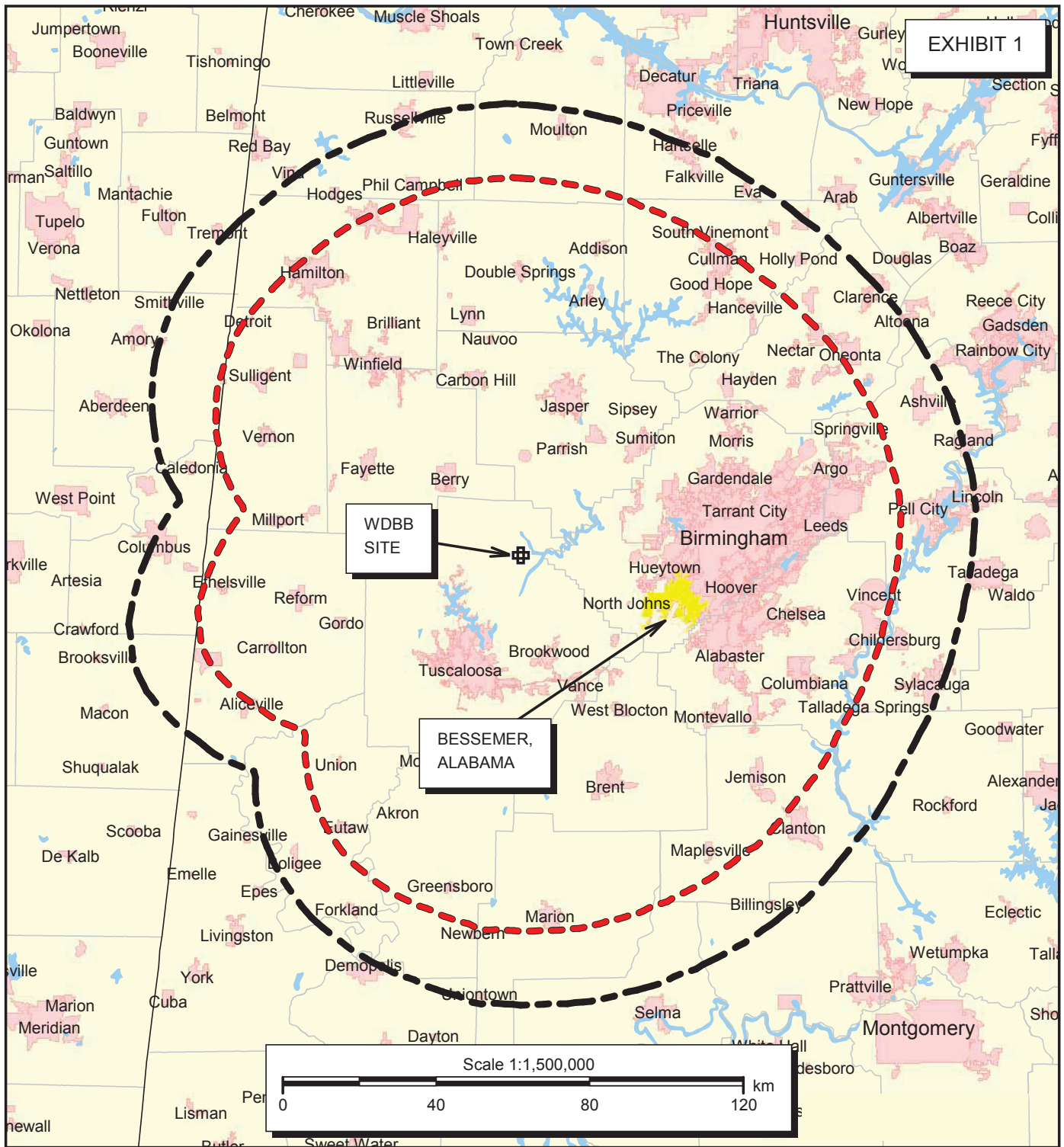
It is submitted that the instant amendment to WDBB's application for construction permit to change from channel 18 to channel 14, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement, FCC Form 2100, its technical sections, 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: August 1, 2017



John E. Hidle, P.E.





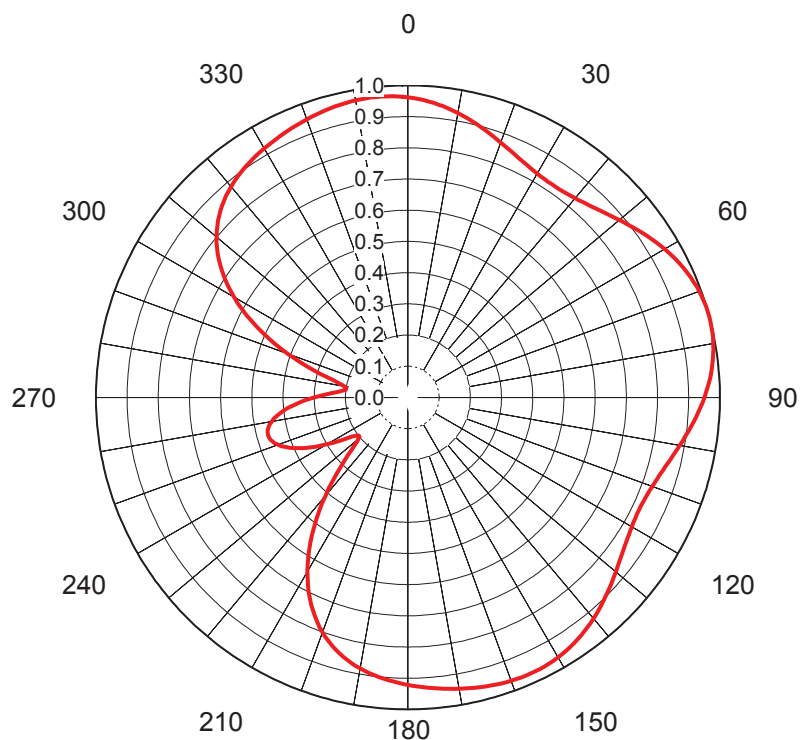
PREDICTED COVERAGE CONTOURS

WDBB - BESSEMER, ALABAMA
DTV Channel 14 - 310 kW ERP - 668 M HAAT
AUGUST, 2017

Predicted Noise Limited 38.72 dBu
F(50,90) Coverage Contour



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



AZIMUTH PATTERN Horizontal Polarization

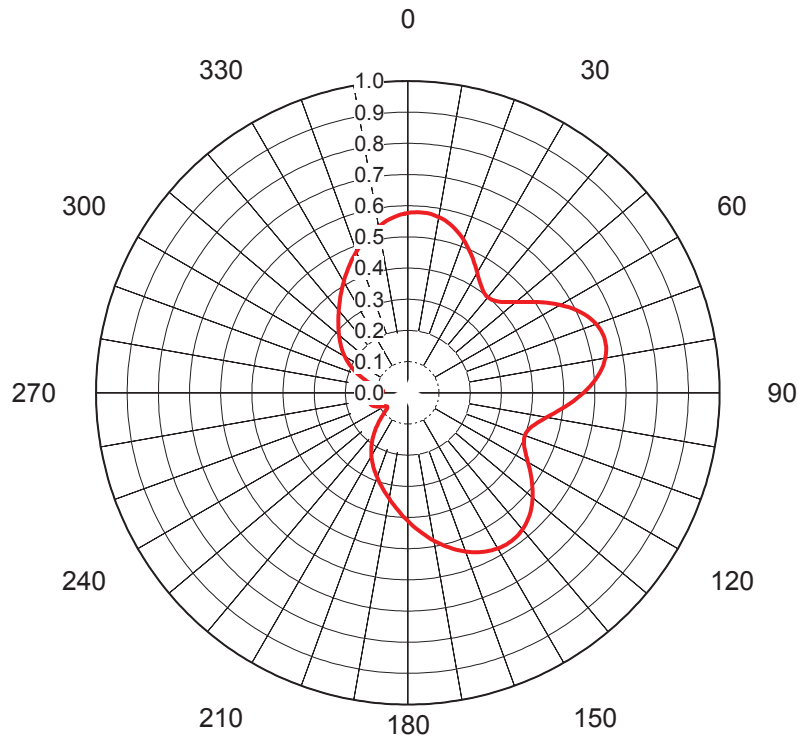
Proposal No. **C-70151**
 Date **13-Feb-17**
 Call Letters **WDBB 14**
 Frequency **473 MHz**
 Antenna Type **TFU-24ETT/VP-R CT160**

 Gain **1.55 (1.9dB)**
Calculated

 Directional
 Drawing # **TFU-CT160-17/18**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.962	36	0.825	72	0.998	108	0.841	144	0.944	180	0.921	216	0.510	252	0.456	288	0.361	324	0.901
1	0.960	37	0.826	73	0.999	109	0.837	145	0.948	181	0.918	217	0.486	253	0.461	289	0.386	325	0.905
2	0.957	38	0.828	74	1.000	110	0.834	146	0.951	182	0.915	218	0.461	254	0.463	290	0.411	326	0.908
3	0.954	39	0.830	75	1.000	111	0.831	147	0.954	183	0.912	219	0.436	255	0.464	291	0.436	327	0.912
4	0.951	40	0.834	76	1.000	112	0.828	148	0.957	184	0.908	220	0.411	256	0.463	292	0.461	328	0.915
5	0.948	41	0.837	77	0.999	113	0.826	149	0.960	185	0.905	221	0.386	257	0.461	293	0.486	329	0.918
6	0.944	42	0.841	78	0.998	114	0.825	150	0.962	186	0.901	222	0.361	258	0.456	294	0.510	330	0.921
7	0.940	43	0.845	79	0.996	115	0.824	151	0.964	187	0.897	223	0.336	259	0.451	295	0.535	331	0.924
8	0.935	44	0.850	80	0.994	116	0.824	152	0.966	188	0.892	224	0.312	260	0.443	296	0.558	332	0.927
9	0.930	45	0.855	81	0.991	117	0.824	153	0.967	189	0.887	225	0.289	261	0.435	297	0.581	333	0.930
10	0.925	46	0.860	82	0.988	118	0.826	154	0.968	190	0.882	226	0.268	262	0.424	298	0.602	334	0.933
11	0.920	47	0.866	83	0.985	119	0.827	155	0.968	191	0.877	227	0.247	263	0.413	299	0.624	335	0.935
12	0.915	48	0.872	84	0.981	120	0.829	156	0.969	192	0.870	228	0.231	264	0.399	300	0.644	336	0.938
13	0.910	49	0.878	85	0.977	121	0.831	157	0.969	193	0.864	229	0.215	265	0.386	301	0.664	337	0.941
14	0.904	50	0.885	86	0.972	122	0.834	158	0.968	194	0.857	230	0.207	266	0.370	302	0.682	338	0.943
15	0.898	51	0.891	87	0.967	123	0.837	159	0.968	195	0.849	231	0.199	267	0.354	303	0.700	339	0.946
16	0.893	52	0.898	88	0.962	124	0.841	160	0.967	196	0.841	232	0.200	268	0.336	304	0.717	340	0.948
17	0.887	53	0.905	89	0.956	125	0.845	161	0.966	197	0.832	233	0.201	269	0.319	305	0.733	341	0.951
18	0.881	54	0.912	90	0.950	126	0.850	162	0.964	198	0.822	234	0.210	270	0.301	306	0.748	342	0.953
19	0.876	55	0.918	91	0.944	127	0.854	163	0.963	199	0.812	235	0.219	271	0.283	307	0.763	343	0.955
20	0.870	56	0.925	92	0.938	128	0.859	164	0.961	200	0.801	236	0.234	272	0.266	308	0.776	344	0.957
21	0.865	57	0.932	93	0.932	129	0.865	165	0.959	201	0.789	237	0.248	273	0.248	309	0.789	345	0.959
22	0.859	58	0.938	94	0.925	130	0.870	166	0.957	202	0.776	238	0.266	274	0.234	310	0.801	346	0.961
23	0.854	59	0.944	95	0.918	131	0.876	167	0.955	203	0.763	239	0.283	275	0.219	311	0.812	347	0.963
24	0.850	60	0.950	96	0.912	132	0.881	168	0.953	204	0.748	240	0.301	276	0.210	312	0.822	348	0.964
25	0.845	61	0.956	97	0.905	133	0.887	169	0.951	205	0.733	241	0.319	277	0.201	313	0.832	349	0.966
26	0.841	62	0.962	98	0.898	134	0.893	170	0.948	206	0.717	242	0.336	278	0.200	314	0.841	350	0.967
27	0.837	63	0.967	99	0.891	135	0.898	171	0.946	207	0.700	243	0.354	279	0.199	315	0.849	351	0.968
28	0.834	64	0.972	100	0.885	136	0.904	172	0.943	208	0.682	244	0.370	280	0.207	316	0.857	352	0.968
29	0.831	65	0.977	101	0.878	137	0.910	173	0.941	209	0.664	245	0.386	281	0.215	317	0.864	353	0.969
30	0.829	66	0.981	102	0.872	138	0.915	174	0.938	210	0.644	246	0.399	282	0.231	318	0.870	354	0.969
31	0.827	67	0.985	103	0.866	139	0.920	175	0.935	211	0.624	247	0.413	283	0.247	319	0.877	355	0.968
32	0.826	68	0.988	104	0.860	140	0.925	176	0.933	212	0.602	248	0.424	284	0.268	320	0.882	356	0.968
33	0.824	69	0.991	105	0.855	141	0.930	177	0.930	213	0.581	249	0.435	285	0.289	321	0.887	357	0.967
34	0.824	70	0.994	106	0.850	142	0.935	178	0.927	214	0.558	250	0.443	286	0.312	322	0.892	358	0.965
35	0.824	71	0.996	107	0.845	143	0.940	179	0.924	215	0.535	251	0.451	287	0.336	323	0.897	359	0.964

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AZIMUTH PATTERN Vertical Polarization

Proposal No. **C-70151**
Date **13-Feb-17**
Call Letters **WDBB 14**
Frequency **473 MHz**
Antenna Type **TFU-24ETT/VP-R CT160**

Gain **2.38 (3.77dB)**
Calculated

Directional
Drawing # **TFU-CT160V D14**

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.577	36	0.408	72	0.651	108	0.402	144	0.579	180	0.411	216	0.196	252	0.124	288	0.153
1	0.578	37	0.405	73	0.653	109	0.400	145	0.580	181	0.404	217	0.189	253	0.125	289	0.160
2	0.579	38	0.402	74	0.654	110	0.400	146	0.580	182	0.397	218	0.182	254	0.126	290	0.167
3	0.580	39	0.400	75	0.655	111	0.400	147	0.580	183	0.390	219	0.175	255	0.126	291	0.175
4	0.580	40	0.400	76	0.654	112	0.402	148	0.579	184	0.384	220	0.167	256	0.126	292	0.182
5	0.580	41	0.400	77	0.653	113	0.405	149	0.578	185	0.377	221	0.160	257	0.125	293	0.189
6	0.579	42	0.402	78	0.651	114	0.408	150	0.577	186	0.370	222	0.153	258	0.124	294	0.196
7	0.578	43	0.405	79	0.648	115	0.413	151	0.575	187	0.364	223	0.145	259	0.123	295	0.202
8	0.577	44	0.409	80	0.644	116	0.418	152	0.573	188	0.357	224	0.138	260	0.120	296	0.209
9	0.575	45	0.414	81	0.639	117	0.424	153	0.570	189	0.351	225	0.130	261	0.118	297	0.215
10	0.572	46	0.420	82	0.633	118	0.431	154	0.567	190	0.345	226	0.123	262	0.115	298	0.222
11	0.569	47	0.427	83	0.627	119	0.438	155	0.563	191	0.339	227	0.116	263	0.112	299	0.228
12	0.566	48	0.435	84	0.620	120	0.445	156	0.560	192	0.333	228	0.109	264	0.108	300	0.234
13	0.562	49	0.443	85	0.612	121	0.453	157	0.556	193	0.327	229	0.103	265	0.105	301	0.239
14	0.558	50	0.453	86	0.603	122	0.461	158	0.551	194	0.321	230	0.097	266	0.101	302	0.245
15	0.553	51	0.463	87	0.594	123	0.469	159	0.547	195	0.315	231	0.092	267	0.097	303	0.251
16	0.548	52	0.474	88	0.584	124	0.477	160	0.542	196	0.310	232	0.088	268	0.093	304	0.256
17	0.542	53	0.484	89	0.574	125	0.485	161	0.537	197	0.304	233	0.084	269	0.089	305	0.262
18	0.536	54	0.496	90	0.564	126	0.493	162	0.531	198	0.299	234	0.081	270	0.086	306	0.267
19	0.530	55	0.507	91	0.553	127	0.501	163	0.526	199	0.293	235	0.080	271	0.083	307	0.272
20	0.523	56	0.519	92	0.541	128	0.508	164	0.520	200	0.288	236	0.079	272	0.081	308	0.278
21	0.516	57	0.530	93	0.530	129	0.516	165	0.514	201	0.283	237	0.080	273	0.080	309	0.283
22	0.508	58	0.541	94	0.519	130	0.523	166	0.508	202	0.278	238	0.081	274	0.079	310	0.288
23	0.501	59	0.553	95	0.507	131	0.530	167	0.502	203	0.272	239	0.083	275	0.080	311	0.293
24	0.493	60	0.564	96	0.496	132	0.536	168	0.495	204	0.267	240	0.086	276	0.081	312	0.299
25	0.485	61	0.574	97	0.484	133	0.542	169	0.488	205	0.262	241	0.089	277	0.084	313	0.304
26	0.477	62	0.584	98	0.474	134	0.548	170	0.482	206	0.256	242	0.093	278	0.088	314	0.310
27	0.469	63	0.594	99	0.463	135	0.553	171	0.475	207	0.251	243	0.097	279	0.092	315	0.315
28	0.461	64	0.603	100	0.453	136	0.558	172	0.468	208	0.245	244	0.101	280	0.097	316	0.321
29	0.453	65	0.612	101	0.443	137	0.562	173	0.461	209	0.239	245	0.105	281	0.103	317	0.327
30	0.445	66	0.620	102	0.435	138	0.566	174	0.454	210	0.234	246	0.108	282	0.109	318	0.333
31	0.438	67	0.627	103	0.427	139	0.569	175	0.447	211	0.228	247	0.112	283	0.116	319	0.339
32	0.431	68	0.633	104	0.420	140	0.572	176	0.440	212	0.222	248	0.115	284	0.123	320	0.345
33	0.424	69	0.639	105	0.414	141	0.575	177	0.433	213	0.215	249	0.118	285	0.130	321	0.351
34	0.418	70	0.644	106	0.409	142	0.577	178	0.425	214	0.209	250	0.120	286	0.138	322	0.357
35	0.413	71	0.648	107	0.405	143	0.578	179	0.418	215	0.202	251	0.123	287	0.145	323	0.364

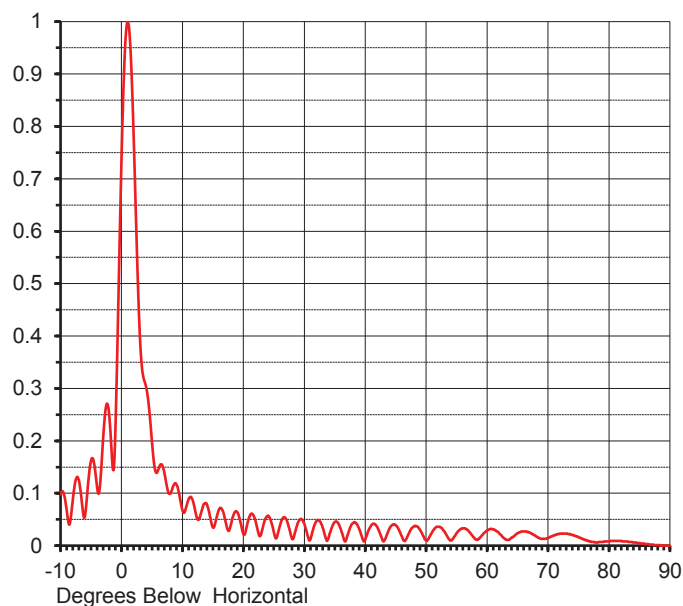
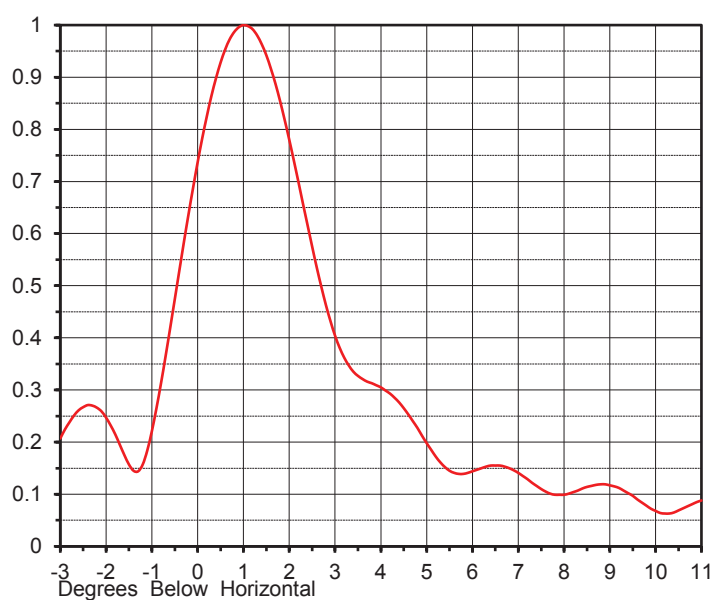
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ELEVATION PATTERN

Proposal No. **C-70151**
 Date **13-Feb-17**
 Call Letters **WDBB 14**
 Frequency **473 MHz**
 Antenna Type **TFU-24ETT/VP-R CT160**

RMS Directivity at Main Lobe **22.50 (13.52 dB)**
 RMS Directivity at Horizontal **12.20 (10.86 dB)**
Calculated

Beam Tilt **1.00 deg**
 Drawing Number **24E225100**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.098	10.0	0.068	30.0	0.042	50.0	0.010	70.0	0.015
-9.0	0.068	11.0	0.088	31.0	0.012	51.0	0.026	71.0	0.020
-8.0	0.086	12.0	0.072	32.0	0.047	52.0	0.036	72.0	0.023
-7.0	0.125	13.0	0.060	33.0	0.035	53.0	0.027	73.0	0.023
-6.0	0.056	14.0	0.079	34.0	0.016	54.0	0.010	74.0	0.020
-5.0	0.162	15.0	0.035	35.0	0.045	55.0	0.024	75.0	0.016
-4.0	0.111	16.0	0.069	36.0	0.031	56.0	0.033	76.0	0.011
-3.0	0.207	17.0	0.050	37.0	0.016	57.0	0.027	77.0	0.008
-2.0	0.247	18.0	0.042	38.0	0.043	58.0	0.013	78.0	0.006
-1.0	0.221	19.0	0.064	39.0	0.032	59.0	0.017	79.0	0.007
0.0	0.737	20.0	0.022	40.0	0.011	60.0	0.029	80.0	0.008
1.0	1.000	21.0	0.055	41.0	0.039	61.0	0.031	81.0	0.009
2.0	0.780	22.0	0.047	42.0	0.035	62.0	0.023	82.0	0.009
3.0	0.404	23.0	0.026	43.0	0.008	63.0	0.012	83.0	0.008
4.0	0.305	24.0	0.057	44.0	0.033	64.0	0.015	84.0	0.006
5.0	0.198	25.0	0.026	45.0	0.039	65.0	0.024	85.0	0.005
6.0	0.144	26.0	0.038	46.0	0.018	66.0	0.027	86.0	0.003
7.0	0.141	27.0	0.051	47.0	0.019	67.0	0.025	87.0	0.002
8.0	0.099	28.0	0.013	48.0	0.037	68.0	0.018	88.0	0.001
9.0	0.117	29.0	0.045	49.0	0.030	69.0	0.013	89.0	0.000
								90.0	0.000

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**SUMMARY OF RADIOFREQUENCY
RADIATION STUDY**

WDBB, Bessemer, AL
Channel 14, 310 kW, 668 m HAAT
August, 2017

<u>CALL</u>	<u>SERVICE</u>	<u>CHANNEL</u>	<u>FREQUENCY</u>	<u>POLAR- IZATION</u>	<u>ANTENNA HEIGHT</u>	<u>ERP (kW)</u>	<u>VERT. RELATIVE FIELD FACTOR</u>	<u>WORST-CASE PREDICTED POWER DENSITY ($\mu\text{W}/\text{cm}^2$)</u>	<u>FCC UNCONTROLLED LIMIT ($\mu\text{W}/\text{cm}^2$)</u>	<u>PERCENT OF UNCONTROLLED LIMIT</u>
WDBB	DT	14	473	H & V	599.3	310.000	0.300	5.225	315.33	1.66%
TOTAL PERCENTAGE OF FCC GUIDELINE VALUE =										1.66%

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



WDBB - BESSEMER, ALABAMA

Amended Appendix B - Longley-Rice Interference Analysis

AUGUST, 2017

tvstudy v2.2.3 (Dxtpx3)
 Database: localhost, Study: WDBB_14_668H_310K_3D, Model: Longley-Rice
 Start: 2017.08.01 12:58:43

Study created: 2017.08.01 12:58:15

Study build station data: LMS TV 2017-07-27 (27)

Proposal: WDBB D14 DT APP BESSEMER, AL
 File number: WDBB_14_668H_310K_3D
 Facility ID: 71325
 Station data: User record
 Record ID: 1010
 Country: U.S.
 Zone: II

Search options:
 Non-U.S. records included
 All APP records excluded
 Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WFGX	D14	DT	BL	FORT WALTON BEACH, FL	DTVBL6554	319.6 km
WDBB	D14	DT	CP	JACKSON, MS	BLANK0000025182	312.0
WDSI-TV	D14	DT	CP	CHATTANOOGA, TN	BLANK0000027938	273.6
WLJT-DT	D14	DT	CP	LEXINGTON, TN	BLANK0000027017	270.4
WAFF	D15	DT	CP	HUNTSVILLE, AL	BLANK0000025101	158.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D14
 Latitude: 33 28 51.00 N (NAD83)
 Longitude: 87 24 3.00 W
 Height AMSL: 805.0 m
 HAAT: 668.0 m
 Peak ERP: 310 kW
 Antenna: DIE-TFU-24ETT/VP-R CT160 (ID 1001452) 0.0 deg
 Elev Pattn: Generic
 Elec Tilt: 1.0

38.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	287 kW	670.7 m	117.1 km
45.0	229	663.6	114.6
90.0	280	685.9	117.6
135.0	250	669.8	115.7
180.0	263	686.6	117.0
225.0	29.6	653.6	96.2
270.0	28.1	676.9	96.6
315.0	220	638.2	113.1

ERP exceeds maximum

ERP: 310 kW ERP maximum: 270 kW

Amended Appendix B - Interference Analysis

WDBB - Bessemer, Alabama

Channel 14 - 310 kW - Page 2

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

Distance to Canadian border: 1001.0 km

Distance to Mexican border: 1240.2 km

Conditions at FCC monitoring station: Powder Springs GA
 Bearing: 79.5 degrees Distance: 251.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 300.1 degrees Distance: 1745.3 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%

----- Interference to DTVBL6554 BL, scenario 1

Desired:	Call WFGX	Chan D14	Svc DT	Status BL	City, State FORT WALTON BEACH, FL	File Number DTVBL6554	Distance		
Undesireds:	WDBB	D14	DT	BL	BESSEMER, AL	DTVBL71325	319.6 km		
	WDBB	D14	DT	APP	BESSEMER, AL	WDBB_14_668H_310K_3D	319.6		
	WDBD	D14	DT	CP	JACKSON, MS	BLANK0000025182	314.8		
	WPMI-TV	D15	DT	LIC	MOBILE, AL	BLCDT20090618ABA	3.6		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
38860.5	1,437,704	38705.8	1,436,688	38109.3	1,431,158	38085.5	1,431,140	0.06	0.00
Undesired				Total IX		Unique IX, before		Unique IX, after	
WDBB	D14	DT	BL	154.6	568	126.9	432		
WDBB	D14	DT	APP	198.3	614			150.7	450
WDBD	D14	DT	CP	346.1	1,830	318.4	1,694	298.5	1,666
WPMI-TV	D15	DT	LIC	123.5	3,268	123.5	3,268	123.5	3,268

----- Interference to BLANK0000025182 CP, scenario 1

Desired:	Call WDBD	Chan D14	Svc DT	Status CP	City, State JACKSON, MS	File Number BLANK0000025182	Distance
Undesireds:	WDBB	D14	DT	BL	BESSEMER, AL	DTVBL71325	312.0 km
	WDBB	D14	DT	APP	BESSEMER, AL	WDBB_14_668H_310K_3D	312.0
	KARZ-TV	D14	DT	CP	LITTLE ROCK, AR	BLANK0000028198	348.0
	WFGX	D14	DT	BL	FORT WALTON BEACH, FL	DTVBL6554	314.8
	KLWB	D14	DT	CP	NEW IBERIA, LA	BLANK0000025239	256.5
	WFXW	D15	DT	LIC	GREENVILLE, MS	BLCDT20090612ACI	163.2
	WNTZ-TV	D15	DT	CP	NATCHEZ, MS	BLANK0000027596	137.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
40289.4	918,450	40205.6	917,435	39354.0	909,305	39354.0	909,305
						0.00	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
WDBB	D14	DT	BL	4.0	94	0.0	0
WDBB	D14	DT	APP	4.0	94	0.0	0
KARZ-TV	D14	DT	CP	8.0	2	8.0	2
WFGX	D14	DT	BL	360.0	4,606	300.4	3,639
KLWB	D14	DT	CP	321.2	3,304	234.0	2,080

**Amended Appendix B - Interference Analysis
WDBB - Bessemer, Alabama
Channel 14 - 310 kW - Page 3**

WFXW D15 DT LIC	16.0	18	16.0	18	16.0	18
WNTZ-TV D15 DT CP	233.6	1,424	201.9	1,073	201.9	1,073

Interference to BLANK0000027938 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDSI-TV	D14	DT	CP	CHATTANOOGA, TN	BLANK0000027938	
Undesireds:	WDBB	D14	DT	BL	BESSEMER, AL	DTVBL71325	273.6 km
	WDBB	D14	DT	APP	BESSEMER, AL	WDBB_14_668H_310K_3D	273.6
	WSKC-CD	D14	DC	CP	ATLANTA, GA	BLANK0000025394	171.2
	WLKY	D14	DT	CP	LOUISVILLE, KY	BLANK0000025154	354.5
	WLJT-DT	D14	DT	CP	LEXINGTON, TN	BLANK0000027017	305.9
	WLFG	D14	DT	CP	GRUNDY, VA	BLANK0000026306	339.3
	WAFF	D15	DT	CP	HUNTSVILLE, AL	BLANK0000025101	127.2
	WTNZ	D15	DT	CP	KNOXVILLE, TN	BLANK0000025183	149.5

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX					
	19166.4	1,062,949	16438.5	994,740	16067.3	985,391	16055.3	985,187	0.08	0.02
Undesired			Total IX	Unique IX, before	Unique IX, after					
WDBB D14 DT BL		226.7	6,547	186.9	5,573					
WDBB D14 DT APP		238.7	6,751			199.0	5,777			
WSKC-CD D14 DC CP		47.7	1,110	27.8	408	27.8	408			
WLKY D14 DT CP		12.1	143	8.0	143	8.0	143			
WLJT-DT D14 DT CP		4.0	0	0.0	0	0.0	0			
WLFG D14 DT CP		68.4	1,801	44.2	1,347	44.2	1,347			
WAFF D15 DT CP		27.8	408	8.0	136	8.0	136			
WTNZ D15 DT CP		52.4	768	28.2	314	28.2	314			

Interference to BLANK0000027017 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLJT-DT	D14	DT	CP	LEXINGTON, TN	BLANK0000027017	
Undesireds:	WDBB	D14	DT	BL	BESSEMER, AL	DTVBL71325	270.4 km
	WDBB	D14	DT	APP	BESSEMER, AL	WDBB_14_668H_310K_3D	270.4
	KNLC	D14	DT	LIC	ST. LOUIS, MO	BLCDDT20061228AAC	342.1
	W50EA-D	D15	DC	CP	MEMPHIS, TN	BLANK0000024496	116.4

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX					
	17868.6	425,329	17764.2	424,167	17523.2	421,939	17511.2	421,845	0.07	0.02
Undesired			Total IX	Unique IX, before	Unique IX, after					
WDBB D14 DT BL		91.7	1,521	91.7	1,521					
WDBB D14 DT APP		103.6	1,615			103.6	1,615			
KNLC D14 DT LIC		8.0	20	8.0	20	8.0	20			
W50EA-D D15 DC CP		141.4	687	141.4	687	141.4	687			

Interference to BLANK0000025101 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WAFF	D15	DT	CP	HUNTSVILLE, AL	BLANK0000025101	
Undesireds:	WDBB	D14	DT	BL	BESSEMER, AL	DTVBL71325	158.2 km
	WDBB	D14	DT	APP	BESSEMER, AL	WDBB_14_668H_310K_3D	158.2
	WDSI-TV	D14	DT	CP	CHATTANOOGA, TN	BLANK0000027938	127.2
	WRBL	D15	DT	LIC	COLUMBUS, GA	BLCDDT20061013ABV	310.9
	WTNZ	D15	DT	CP	KNOXVILLE, TN	BLANK0000025183	275.4
	WPXA-TV	D16	DT	BL	ROME, GA	DTVBL51969	178.4
	WHTN	D16	DT	CP	MURFREESBORO, TN	BLANK0000025312	152.8

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX					
	26054.2	1,196,496	24508.4	1,137,788	23900.1	1,109,907	23892.1	1,109,686	0.03	0.02

Amended Appendix B - Interference Analysis
WDBB - Bessemer, Alabama
Channel 14 - 310 kW - Page 4

Undesired		Total IX	Unique IX, before	Unique IX, after
WDBB D14 DT BL	168.2	3,987	164.2	3,884
WDBB D14 DT APP	176.2	4,208		172.2
WDSI-TV D14 DT CP	4.0	112	0.0	0
WRBL D15 DT LIC	191.8	11,844	124.0	10,409
WTNZ D15 DT CP	272.0	12,591	200.0	11,162
WPXA-TV D16 DT BL	39.9	885	8.0	124
WHTN D16 DT CP	36.4	589	16.2	431

Interference to proposal, scenario 1
2.01% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDBB	D14	DT	APP	BESSEMER, AL	WDBB_14_668H_310K_3D	
Undesireds:	WFGX	D14	DT	BL	FORT WALTON BEACH, FL	DTVBL6554	319.6 km
	WDBD	D14	DT	CP	JACKSON, MS	BLANK0000025182	312.0
	WDSI-TV	D14	DT	CP	CHATTANOOGA, TN	BLANK0000027938	273.6
	WLJT-DT	D14	DT	CP	LEXINGTON, TN	BLANK0000027017	270.4
	WAFF	D15	DT	CP	HUNTSVILLE, AL	BLANK0000025101	158.2

Service area	Terrain-limited	IX-free	Percent IX
39276.4 1,688,439	38504.0 1,666,606	37429.0 1,633,116	2.79 2.01

Undesired		Total IX	Unique IX	Prcnt Unique IX
WFGX D14 DT BL	188.9	2,816	176.8	2,805
WDBD D14 DT CP	124.4	1,458	72.3	1,134
WDSI-TV D14 DT CP	84.0	2,926	36.1	1,972
WLJT-DT D14 DT CP	562.5	15,004	327.0	7,553
WAFF D15 DT CP	374.8	19,077	207.3	12,428