



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION FOR
A MINOR MODIFICATION OF A
POST REPACK CONSTRUCTION PERMIT
FILE # 0000034383
WDKY-TV - DANVILLE, KENTUCKY
DTV - CH. 19 - 1000 kW - 351.9 m HAAT**

Prepared for: WDKY 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, No. 7418, and in New York State, No. 63418.

GENERAL

This office has been authorized by WDKY LICENSEE, LLC, licensee of WDKY-TV channel 31, facility ID number 64017, licensed to Danville, Kentucky, to prepare this statement, FCC Form 2100, Schedule A, its technical sections, and the associated exhibits in support of an application for a minor modification of its post-reassignment construction permit, File # 0000034383, that authorizes WDKY-TV to use channel 19 for its post-reassignment broadcasting. The instant application proposes only to change from its authorized omni-directional antenna to a directional antenna, Dielectric Model No. TUA-C4SP-14/42H-1-T. No other changes are proposed.

DIRECTIONAL ANTENNA

The applicant proposes to utilize its former directional panel type antenna, a Dielectric model TUA-C4SP-14/42H-1-T, which will accommodate its change to its post-repack channel 19 from its pre-repack channel 31. This proposed directional antenna is horizontally polarized with its center of radiation located at a height above ground of 343.2 meters, and a height above average terrain of 351.9 meters. The manufacturer's horizontal azimuth radiation pattern is shown in Exhibit 2 and its vertical plane elevation radiation pattern, illustrating the antenna's radiation characteristics above and below the horizontal plane is shown and tabulated in Exhibit 3.

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 (39.25 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Danville, Kentucky.

ALLOCATION CONSIDERATIONS

Post-Transition DTV Considerations

A study was performed, using the FCC's application processing software, *tvstudy*, v. 2.2.5, 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. (See Appendix B)

International DTV Considerations

The WDKY-TV site is located 444.6 kilometers from the nearest point on the US-Canadian border, and is 1,775.4 kilometers from the nearest point on the US-Mexican border. The site is located beyond either the Canadian or the Mexican coordination distance.

BLANKETING AND INTERMODULATION INTERFERENCE

Other broadcast and non-broadcast facilities are either co-located with, or located within 10 kilometers of the WDKY-TV 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

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by 1.5, and is similarly determined for a "controlled" environment by dividing the operating frequency in MHZ by 0.3.

The predicted emissions of WDKY-TV must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WDKY-TV, which will operate on television Channel 19 (500-506 MHZ), the MPE is 335.33 microwatts per centimeter squared ($\mu\text{W}/\text{cm}^2$) in an "uncontrolled" environment and 1,676.7 $\mu\text{W}/\text{cm}^2$ in a "controlled" environment. The proposed WDKY-TV facility will operate with a maximum ERP of 1000 kW from a horizontally polarized directional transmitting antenna with a centerline height of 343.2 meters above ground level (AGL). Considering a conservative predicted vertical plane relative field factor of 0.300 the WDKY-TV facility is predicted to produce a power density at two meters above ground level of 25.828 $\mu\text{W}/\text{cm}^2$, which is 7.70% of the FCC guideline value for an "uncontrolled" environment, and 1.54% of the FCC's guideline value for "controlled" environments. There is one other full-power DTV facility and three full-power FM station that are located at the WDKY-TV 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 22.85% of the limit applicable to "uncontrolled" environments, and 4.57% of the limit for "controlled" environments. (See Appendix A)

OCCUPATIONAL SAFETY

The licensee of WDKY-TV is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WDKY-TV antenna, and is committed to

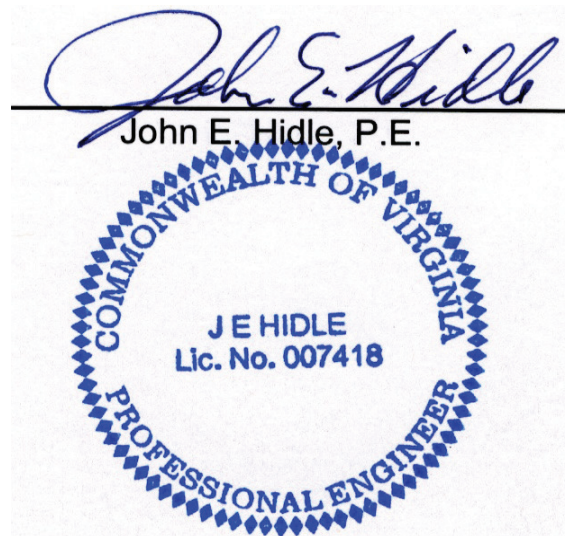
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reducing power or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure protection to personnel.

SUMMARY

It is submitted that the instant application for minor modification of WDKY-TV's post-reassignment channel 19 construction permit, file # 0000034383, to substitute a directional antenna, 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: September 10, 2018





PREDICTED COVERAGE CONTOURS

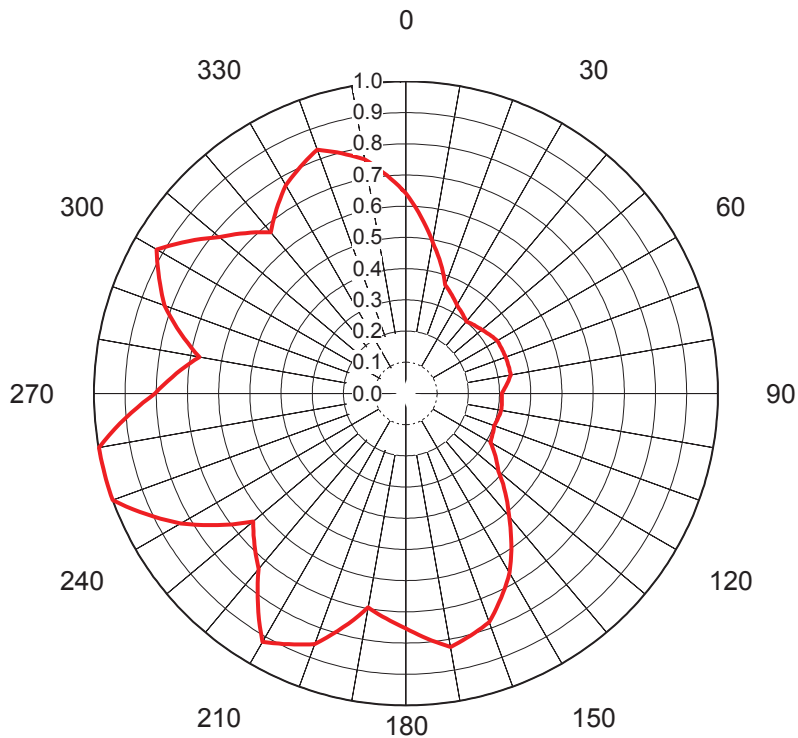
WDKY-TV - DANVILLE, KENTUCKY
DTV Channel 19 - 1000 kW ERP - 351.9 M HAAT
SEPTEMBER, 2018

Predicted Noise Limited 39.25 dBu
F(50,90) Coverage Contour



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

AZIMUTH PATTERN Horizontal Polarization



Proposal No. **C-70021 Ex. 2**
 Date **20-Mar-17**
 Call Letters **WDKY**
 Channel **19**
 Frequency **503 MHz**
 Antenna Type **TUA-C4SP-14/42H-1-T**
 Gain **2.29 (3.6dB)**
 Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.641	36	0.312	72	0.340	108	0.303	144	0.574	180	0.753	216	0.808	252	1.000	288	0.793
1	0.627	37	0.309	73	0.340	109	0.302	145	0.589	181	0.747	217	0.790	253	1.000	289	0.808
2	0.612	38	0.306	74	0.341	110	0.301	146	0.604	182	0.742	218	0.771	254	1.000	290	0.823
3	0.597	39	0.304	75	0.341	111	0.302	147	0.619	183	0.736	219	0.753	255	0.999	291	0.833
4	0.582	40	0.301	76	0.341	112	0.304	148	0.634	184	0.730	220	0.734	256	0.999	292	0.843
5	0.567	41	0.303	77	0.341	113	0.305	149	0.649	185	0.725	221	0.725	257	0.999	293	0.853
6	0.552	42	0.305	78	0.341	114	0.306	150	0.664	186	0.719	222	0.715	258	0.999	294	0.863
7	0.537	43	0.306	79	0.341	115	0.307	151	0.676	187	0.713	223	0.706	259	0.999	295	0.873
8	0.522	44	0.308	80	0.341	116	0.308	152	0.687	188	0.708	224	0.696	260	0.999	296	0.883
9	0.507	45	0.309	81	0.338	117	0.309	153	0.699	189	0.702	225	0.686	261	0.979	297	0.893
10	0.492	46	0.311	82	0.334	118	0.310	154	0.711	190	0.697	226	0.677	262	0.960	298	0.903
11	0.480	47	0.313	83	0.331	119	0.311	155	0.722	191	0.712	227	0.667	263	0.940	299	0.912
12	0.468	48	0.314	84	0.328	120	0.313	156	0.734	192	0.728	228	0.658	264	0.921	300	0.922
13	0.456	49	0.316	85	0.324	121	0.320	157	0.745	193	0.744	229	0.648	265	0.901	301	0.908
14	0.443	50	0.318	86	0.321	122	0.327	158	0.757	194	0.760	230	0.638	266	0.882	302	0.894
15	0.431	51	0.320	87	0.318	123	0.335	159	0.769	195	0.776	231	0.658	267	0.862	303	0.879
16	0.419	52	0.322	88	0.314	124	0.342	160	0.780	196	0.792	232	0.677	268	0.843	304	0.865
17	0.407	53	0.324	89	0.311	125	0.350	161	0.785	197	0.807	233	0.697	269	0.823	305	0.851
18	0.394	54	0.326	90	0.307	126	0.357	162	0.789	198	0.823	234	0.716	270	0.804	306	0.837
19	0.382	55	0.328	91	0.308	127	0.365	163	0.794	199	0.839	235	0.736	271	0.791	307	0.822
20	0.370	56	0.330	92	0.308	128	0.372	164	0.798	200	0.855	236	0.755	272	0.778	308	0.808
21	0.365	57	0.332	93	0.308	129	0.380	165	0.803	201	0.861	237	0.775	273	0.764	309	0.794
22	0.361	58	0.334	94	0.309	130	0.387	166	0.807	202	0.868	238	0.794	274	0.751	310	0.779
23	0.357	59	0.336	95	0.309	131	0.400	167	0.812	203	0.874	239	0.814	275	0.738	311	0.769
24	0.353	60	0.338	96	0.309	132	0.413	168	0.816	204	0.881	240	0.834	276	0.725	312	0.758
25	0.348	61	0.338	97	0.310	133	0.425	169	0.821	205	0.887	241	0.850	277	0.712	313	0.748
26	0.344	62	0.339	98	0.310	134	0.438	170	0.825	206	0.894	242	0.867	278	0.698	314	0.737
27	0.340	63	0.339	99	0.310	135	0.451	171	0.818	207	0.900	243	0.883	279	0.685	315	0.727
28	0.335	64	0.339	100	0.311	136	0.464	172	0.811	208	0.906	244	0.900	280	0.672	316	0.716
29	0.331	65	0.339	101	0.310	137	0.477	173	0.804	209	0.913	245	0.917	281	0.687	317	0.706
30	0.327	66	0.339	102	0.309	138	0.489	174	0.796	210	0.919	246	0.933	282	0.702	318	0.695
31	0.324	67	0.340	103	0.308	139	0.502	175	0.789	211	0.901	247	0.950	283	0.717	319	0.685
32	0.322	68	0.340	104	0.307	140	0.515	176	0.782	212	0.882	248	0.967	284	0.733	320	0.674
33	0.319	69	0.340	105	0.306	141	0.530	177	0.775	213	0.864	249	0.983	285	0.748	321	0.684
34	0.317	70	0.340	106	0.305	142	0.545	178	0.767	214	0.845	250	1.000	286	0.763	322	0.693
35	0.314	71	0.340	107	0.304	143	0.560	179	0.760	215	0.827	251	1.000	287	0.778	323	0.703

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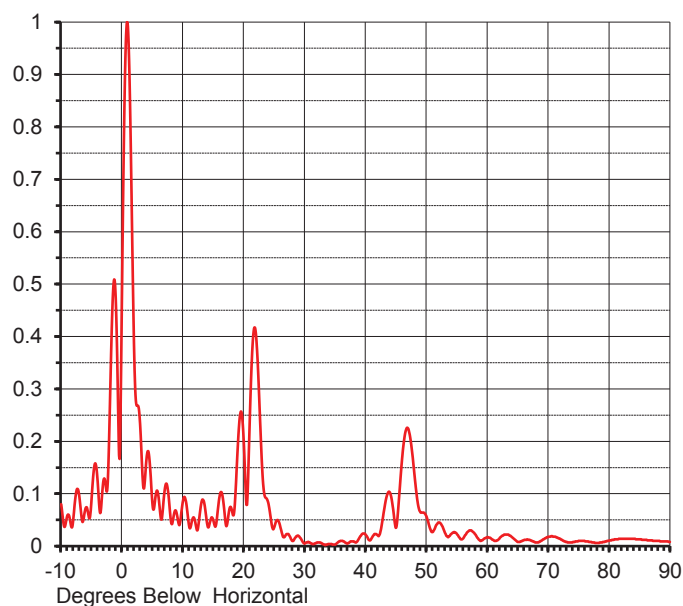
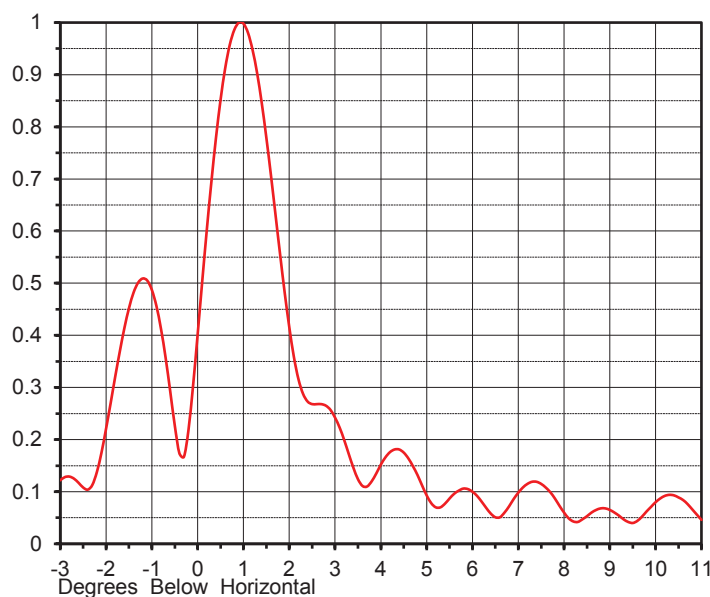
ELEVATION PATTERN

Proposal No. **C-70021 Ex. 3**
 Date **20-Mar-17**
 Call Letters **WDKY**
 Channel **19**
 Frequency **503 MHz**
 Antenna Type **TUA-C4SP-14/42H-1-T**

RMS Directivity at Main Lobe
 RMS Directivity at Horizontal

Beam Tilt **0.80 deg**
 Pattern Number **14U241080-503**

Calculated



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.080	10.0	0.087	30.0	0.005	50.0	0.055	70.0	0.018
-9.0	0.058	11.0	0.038	31.0	0.005	51.0	0.027	71.0	0.018
-8.0	0.053	12.0	0.046	32.0	0.007	52.0	0.045	72.0	0.013
-7.0	0.093	13.0	0.082	33.0	0.004	53.0	0.025	73.0	0.008
-6.0	0.072	14.0	0.040	34.0	0.004	54.0	0.023	74.0	0.008
-5.0	0.092	15.0	0.048	35.0	0.003	55.0	0.022	75.0	0.010
-4.0	0.121	16.0	0.095	36.0	0.010	56.0	0.015	76.0	0.009
-3.0	0.128	17.0	0.043	37.0	0.005	57.0	0.030	77.0	0.008
-2.0	0.270	18.0	0.069	38.0	0.009	58.0	0.022	78.0	0.006
-1.0	0.456	19.0	0.193	39.0	0.017	59.0	0.011	79.0	0.008
0.0	0.504	20.0	0.190	40.0	0.021	60.0	0.017	80.0	0.011
1.0	0.980	21.0	0.260	41.0	0.016	61.0	0.011	81.0	0.013
2.0	0.359	22.0	0.400	42.0	0.020	62.0	0.016	82.0	0.014
3.0	0.223	23.0	0.146	43.0	0.069	63.0	0.022	83.0	0.014
4.0	0.166	24.0	0.082	44.0	0.101	64.0	0.017	84.0	0.014
5.0	0.078	25.0	0.037	45.0	0.036	65.0	0.008	85.0	0.013
6.0	0.092	26.0	0.035	46.0	0.173	66.0	0.012	86.0	0.012
7.0	0.108	27.0	0.023	47.0	0.223	67.0	0.011	87.0	0.011
8.0	0.049	28.0	0.010	48.0	0.134	68.0	0.007	88.0	0.010
9.0	0.060	29.0	0.019	49.0	0.064	69.0	0.012	89.0	0.009
								90.0	0.000

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**SUMMARY OF RADIOFREQUENCY
RADIATION STUDY**

WDKY-TV, Danville, KY
Channel 19, 1000 kW, 351.9 m HAAT
September, 2018

APPENDIX A

<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>
WDKY-TV	DT	19	503	H	343.2	1000.000	0.300	25.828	335.33	7.70%
WKLE	DT	35	599	H	240.2	40.000	0.300	2.120	399.33	0.53%
WEKU	FM	205	88.9	H & V	205	50.000	<note 1>	0.522	200.00	0.26%
WUKY	FM	217	91.3	H & V	221.6	100.000	<note 1>	0.892	200.00	0.45%
WVLK-FM	FM	268	101.5	H & V	149	9.000	1.000	27.830	200.00	13.91%
TOTAL PERCENTAGE OF FCC GUIDELINE VALUE =										22.85%

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

note 1: FM Model Antenna: EPA Type 3; ERI Rototiller Type, 8-bay, 0.5 wave spaced antenna,



WDKY-TV - DANVILLE, KENTUCKY Longley-Rice Interference Analysis September 2018

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WDKY 19 C4SP DA 1MW, Model: Longley-Rice
Start: 2018.09.10 13:04:26

Study created: 2018.09.10 13:04:26

Study build station data: LMS TV 2018-09-09

Proposal: WDKY-TV D19 DT CP DANVILLE, KY
File number: WDKY 19 C4SP DA 1MW
Facility ID: 64017
Station data: User record
Record ID: 457
Country: U.S.
Zone: II

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WKYU-TV	D18	DT	LIC	BOWLING GREEN, KY	BLEDT20040803AAG	207.4 km
No	WKYI-CD	D18	DC	CP	LOUISVILLE, KY	BLANK0000034220	143.3
Yes	WSTR-TV	D18	DT	CP	CINCINNATI, OH	BLANK0000034777	147.7
No	WPXK-TV	D18	DT	CP	JELICO, TN	BLANK0000026977	211.3
No	WLPX-TV	D18	DT	CP	CHARLESTON, WV	BLANK0000034886	231.8
Yes	WHNT-TV	D19	DT	LIC	HUNTSVILLE, AL	BLCDT20111118COZ	401.5
No	WGCL-TV	D19	DT	LIC	ATLANTA, GA	BLCDT20060113ACO	452.8
Yes	WIPB	D19	DT	CP	MUNCIE, IN	BLANK0000027189	262.8
No	WPSD-TV	D19	DT	CP	PADUCAH, KY	BLANK0000027223	417.8
No	WSOC-TV	D19	DT	CP	CHARLOTTE, NC	BLANK0000034695	433.2
No	WKYC	D19	DT	CP	CLEVELAND, OH	BLANK0000034823	450.0
No	WCLL-CD	D19	DC	LIC	COLUMBUS, OH	BLANK0000052505	257.8
No	WPDP-CD	D19	DC	BL	CLEVELAND, TN	DTVBL52078	306.4
Yes	WKPZ-CD	D19	DC	LIC	KINGSPORT, TN	BLANK0000001584	215.0
Yes	WKPZ-CD	D19	DC	LIC	KINGSPORT, TN	BLANK0000001597	215.0
Yes	WLWT	D20	DT	CP	CINCINNATI, OH	BLANK0000034539	139.3
No	WVPB-TV	D20	DT	BL	HUNTINGTON, WV	DTVBL71657	197.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D19
Latitude: 37 52 50.90 N (NAD83)
Longitude: 84 19 15.90 W
Height AMSL: 615.1 m
HAAT: 351.9 m
Peak ERP: 1000 kW
Antenna: TUA C4SP 14 24H 1 T 0.0 deg
Elev Pattern: Generic
Elec Tilt: 0.8

Appendix B - Interference Analysis **WDKY-TV - Danville, Kentucky** **Channel 19 - 1000 kW - Page 2**

39.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	411 kW	333.4 m	96.1 km
45.0	95.8	355.9	86.6
90.0	90.6	384.3	88.5
135.0	203	353.3	92.1
180.0	567	331.2	98.6
225.0	471	357.4	99.3
270.0	646	341.4	100.7
315.0	528	318.5	96.8

Database HAAT does not agree with computed HAAT

Database HAAT: 352 m Computed HAAT: 347 m

Distance to Canadian border: 444.6 km

Distance to Mexican border: 1775.4 km

Conditions at FCC monitoring station: Powder Springs GA

Bearing: 184.8 degrees Distance: 448.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 284.4 degrees Distance: 1818.5 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 BLANK0000034777 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSTR-TV	D18	DT	CP	CINCINNATI, OH	BLANK0000034777	
Undesireds:	WDKY-TV	D19	DT	BL	DANVILLE, KY	DTVBL64017	147.7 km
	WDKY-TV	D19	DT	CP	DANVILLE, KY	WDKY 19 C4SP DA 1MW	147.7
	WCET	D17	DT	CP	CINCINNATI, OH	BLANK0000026835	8.5
	WFWA	D18	DT	CP	FORT WAYNE, IN	BLANK0000057899	219.0
	WAWV-TV	D18	DT	CP	TERRE HAUTE, IN	BLANK0000028343	247.0
	WKYU-TV	D18	DT	LIC	BOWLING GREEN, KY	BLEDT20040803AAG	290.4
	WKYI-CD	D18	DC	CP	LOUISVILLE, KY	BLANK0000034220	147.1
	WCBZ-CD	D18	DC	CP	Columbus, OH	BLANK0000034600	166.5
	WPXK-TV	D18	DT	CP	JELICO, TN	BLANK0000026977	359.0
	WLPX-TV	D18	DT	CP	CHARLESTON, WV	BLANK0000034886	251.2
	WIPB	D19	DT	CP	MUNCIE, IN	BLANK0000027189	124.1

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	28044.2	3,297,280	27803.0	3,286,795	26298.7	3,246,326	26282.6 3,246,131 0.06 0.01
Undesired			Total IX		Unique IX, before		Unique IX, after
WDKY-TV D19 DT BL			56.5	1,212	56.5	1,212	
WDKY-TV D19 DT CP			76.6	1,420			72.6 1,407
WCET D17 DT CP			20.0	449	20.0	449	20.0 449
WFWA D18 DT CP			64.1	4,518	31.9	1,345	31.9 1,345
WAWV-TV D18 DT CP			191.8	8,986	79.7	3,723	79.7 3,723
WKYU-TV D18 DT LIC			4.0	35	0.0	0	0.0 0
WKYI-CD D18 DC CP			796.9	20,205	680.8	14,976	676.8 14,963
WCBZ-CD D18 DC CP			247.2	6,839	139.7	2,219	139.7 2,219
WPXK-TV D18 DT CP			20.1	160	0.0	0	0.0 0
WLPX-TV D18 DT CP			287.2	9,710	167.6	4,995	167.6 4,995

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WIPB D19 DT CP 88.4 1,564 80.4 1,491 80.4 1,491

Interference to BLCDT20111118COZ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHNT-TV	D19	DT	LIC	HUNTSVILLE, AL	BLCDT20111118COZ	
Undesireds:	WDKY-TV	D19	DT	BL	DANVILLE, KY	DTVBL64017	401.5 km
	WDKY-TV	D19	DT	CP	DANVILLE, KY	WDKY 19 C4SP DA 1MW	401.5
	WZDX	D18	DT	CP	HUNTSVILLE, AL	BLANK0000034779	0.2
	WIIQ	D19	DT	LIC	DEMOPOLIS, AL	BLEDT20090511AHE	291.9
	WIYC	D19	DT	CP	TROY, AL	BLANK0000034521	302.6
	WGCL-TV	D19	DT	LIC	ATLANTA, GA	BLCDT20060113ACO	226.5
	WPSD-TV	D19	DT	CP	PADUCAH, KY	BLANK0000027223	350.6
	WPDP-CD	D19	DC	BL	CLEVELAND, TN	DTVBL52078	179.5
	WABM	D20	DT	CP	BIRMINGHAM, AL	BLANK0000034382	141.7
	WDNN-CD	D20	DC	CP	DALTON, GA	BLANK0000028630	138.4
	WZTV	D20	DT	CP	NASHVILLE, TN	BLANK0000028847	171.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
36360.2 1,569,885	34222.1 1,487,578	32464.1 1,425,604	32460.1 1,425,515	0.01 0.01
Undesired	Total IX	Unique IX, before	Unique IX, after	
WDKY-TV D19 DT BL	8.1 194	8.1 194		
WDKY-TV D19 DT CP	12.1 283		12.1 283	
WZDX D18 DT CP	112.2 2,183	112.2 2,183	112.2 2,183	
WIIQ D19 DT LIC	604.9 20,807	324.3 6,081	324.3 6,081	
WIYC D19 DT CP	120.1 8,658	8.0 309	8.0 309	
WGCL-TV D19 DT LIC	988.1 41,500	711.9 26,512	711.9 26,512	
WPSD-TV D19 DT CP	100.8 2,921	88.6 2,695	88.6 2,695	
WPDP-CD D19 DC BL	23.9 144	7.9 0	7.9 0	
WABM D20 DT CP	260.8 10,860	72.2 2,892	72.2 2,892	
WDNN-CD D20 DC CP	35.8 215	0.0 0	0.0 0	
WZTV D20 DT CP	24.2 349	20.1 322	20.1 322	

Interference to BLANK0000027189 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIPB	D19	DT	CP	MUNCIE, IN	BLANK0000027189	
Undesireds:	WDKY-TV	D19	DT	BL	DANVILLE, KY	DTVBL64017	262.8 km
	WDKY-TV	D19	DT	CP	DANVILLE, KY	WDKY 19 C4SP DA 1MW	262.8
	WFWA	D18	DT	CP	FORT WAYNE, IN	BLANK0000057899	113.5
	WSTR-TV	D18	DT	CP	CINCINNATI, OH	BLANK0000034777	124.1
	WFFT-TV	D20	DT	CP	FORT WAYNE, IN	BLANK0000054642	114.1
	WLWT	D20	DT	CP	CINCINNATI, OH	BLANK0000034539	131.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
20483.6 1,965,353	20459.8 1,965,174	20288.7 1,961,461	20280.7 1,960,346	0.04 0.06
Undesired	Total IX	Unique IX, before	Unique IX, after	
WDKY-TV D19 DT BL	31.8 391	23.9 317		
WDKY-TV D19 DT CP	43.8 1,569		31.9 1,432	
WFWA D18 DT CP	8.0 275	0.0 0	0.0 0	
WSTR-TV D18 DT CP	39.6 892	7.9 80	4.0 17	
WFFT-TV D20 DT CP	91.7 2,300	83.7 2,025	83.7 2,025	
WLWT D20 DT CP	47.5 1,016	15.8 204	15.8 204	

Interference to BLANK0000001584 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKPZ-CD	D19	DC	LIC	KINGSPORT, TN	BLANK0000001584	
Undesireds:	WDKY-TV	D19	DT	BL	DANVILLE, KY	DTVBL64017	215.0 km
	WDKY-TV	D19	DT	CP	DANVILLE, KY	WDKY 19 C4SP DA 1MW	215.0

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WPXK-TV	D18	DT	CP	JELICO, TN	BLANK0000026977	134.7
WSOC-TV	D19	DT	CP	CHARLOTTE, NC	BLANK0000034695	218.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
11181.9 628,019	9060.1 563,338	9028.1 562,991	9028.1 562,991	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WDKY-TV D19 DT BL	16.0 157	8.0 157	
WDKY-TV D19 DT CP	16.0 157		8.0 157
WPXK-TV D18 DT CP	4.0 37	4.0 37	4.0 37
WSOC-TV D19 DT CP	20.0 153	12.0 153	12.0 153

Interference to BLANK0000001597 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WKPZ-CD	D19	DC	LIC	KINGSPORT, TN	BLANK0000001597	

Undesireds:	Call	Chan	Svc	Status	City, State	File Number	Distance
WDKY-TV	D19	DT	BL		DANVILLE, KY	DTVBL64017	215.0 km
WDKY-TV	D19	DT	CP		DANVILLE, KY	WDKY 19 C4SP DA 1MW	215.0
WPXK-TV	D18	DT	CP		JELICO, TN	BLANK0000026977	134.7
WSOC-TV	D19	DT	CP		CHARLOTTE, NC	BLANK0000034695	218.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
11181.9 628,019	9060.1 563,338	9028.1 562,991	9028.1 562,991	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WDKY-TV D19 DT BL	16.0 157	8.0 157	
WDKY-TV D19 DT CP	16.0 157		8.0 157
WPXK-TV D18 DT CP	4.0 37	4.0 37	4.0 37
WSOC-TV D19 DT CP	20.0 153	12.0 153	12.0 153

Interference to BLANK0000034539 CP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WLWT	D20	DT	CP	CINCINNATI, OH	BLANK0000034539	

Undesireds:	Call	Chan	Svc	Status	City, State	File Number	Distance
WDKY-TV	D19	DT	BL		DANVILLE, KY	DTVBL64017	139.3 km
WDKY-TV	D19	DT	CP		DANVILLE, KY	WDKY 19 C4SP DA 1MW	139.3
WIPB	D19	DT	CP		MUNCIE, IN	BLANK0000027189	131.0
WAND	D20	DT	CP		DECATUR, IL	BLANK0000034594	380.8
WFFT-TV	D20	DT	CP		FORT WAYNE, IN	BLANK0000054642	227.9
WTVS	D20	DT	CP		DETROIT, MI	BLANK0000027886	386.5
WVPB-TV	D20	DT	BL		HUNTINGTON, WV	DTVBL71657	212.8
WRLW-CD	D21-	DC	CP		SALEM, IN	BLANK0000034328	147.6
WKYT-TV	D21	DT	CP		LEXINGTON, KY	BLANK0000034282	121.0
WBNS-TV	D21	DT	LIC		COLUMBUS, OH	BLCDT20021025ABK	158.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32164.1 3,396,701	31779.7 3,384,704	30554.5 3,339,479	30554.5 3,339,814	-0.00 -0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
WDKY-TV D19 DT BL	240.6 14,876	11.8 1,279	
WDKY-TV D19 DT CP	284.1 15,887		11.8 944
WIPB D19 DT CP	60.1 492	12.0 112	12.0 112
WAND D20 DT CP	12.0 229	0.0 0	0.0 0
WFFT-TV D20 DT CP	291.9 12,673	219.8 9,458	219.8 9,458
WTVS D20 DT CP	12.1 2,606	0.0 0	0.0 0
WVPB-TV D20 DT BL	16.0 192	16.0 192	16.0 192
WRLW-CD D21- DC CP	4.0 50	0.0 0	0.0 0
WKYT-TV D21 DT CP	786.3 27,894	557.5 14,297	514.0 12,951
WBNS-TV D21 DT LIC	107.1 3,075	107.1 3,075	107.1 3,075

Interference to proposal scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	WDKY-TV	D19	DT	CP	DANVILLE, KY	WDKY 19 C4SP DA 1MW	
Undesireds:	WSTR-TV	D18	DT	CP	CINCINNATI, OH	BLANK0000034777	147.7 km
	WIPB	D19	DT	CP	MUNCIE, IN	BLANK0000027189	262.8
	WKPZ-CD	D19	DC	LIC	KINGSPORT, TN	BLANK0000001584	215.0
	WLWT	D20	DT	CP	CINCINNATI, OH	BLANK0000034539	139.3

	Service area		Terrain-limited		IX-free		Percent IX
28838.1	1,204,817	27729.1	1,173,579	27512.5	1,169,020	0.78	0.39
Undesired			Total IX		Unique IX	Prcnt	Unique IX
WSTR-TV D18 DT CP	16.1		125	0.0	0	0.00	0.00
WIPB D19 DT CP	88.1		1,371	68.0	878	0.25	0.07
WKPZ-CD D19 DC LIC	12.0		1,230	12.0	1,230	0.04	0.10
WLWT D20 DT CP	136.5		2,451	104.4	1,833	0.38	0.16

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDKY-TV	D19	DT	CP	DANVILLE, KY	WDKY 19 C4SP DA 1MW	
Undesireds:	WSTR-TV	D18	DT	CP	CINCINNATI, OH	BLANK0000034777	147.7 km
	WIPB	D19	DT	CP	MUNCIE, IN	BLANK0000027189	262.8
	WKPZ-CD	D19	DC	LIC	KINGSPORT, TN	BLANK0000001597	215.0
	WLWT	D20	DT	CP	CINCINNATI, OH	BLANK0000034539	139.3

	Service area		Terrain-limited		IX-free		Percent IX
28838.1	1,204,817	27729.1	1,173,579	27512.5	1,169,020	0.78	0.39
Undesired			Total IX		Unique IX	Prcnt	Unique IX
WSTR-TV D18 DT CP	16.1		125	0.0	0	0.00	0.00
WIPB D19 DT CP	88.1		1,371	68.0	878	0.25	0.07
WKPZ-CD D19 DC LIC	12.0		1,230	12.0	1,230	0.04	0.10
WLWT D20 DT CP	136.5		2,451	104.4	1,833	0.38	0.16