



**STATEMENT OF JOHN E. HIDLE, P.E.  
IN SUPPORT OF AN AMENDMENT  
TO AN APPLICATION FOR  
POST REPACK CONSTRUCTION PERMIT  
FILE # 0000025689  
WKEF - DAYTON, OHIO  
DTV - CH. 34 - 747 kW - 351 m HAAT**

Prepared for: WKEF LICENSEE L.P.

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 WKEF LICENSEE L.P., licensee of WKEF, channel 18, facility ID number 73155, licensed to Dayton, Ohio, 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 of DTV channel 18 for DTV channel 34 to be used by WKEF for its post-reassignment broadcasting. The instant amendment corrects a typographical error in the relative field section of Form 2100, Schedule A.

## **DIRECTIONAL ANTENNA**

The applicant proposes to install a new Dielectric model TFU-24GTH/VP-R 6T140 elliptically polarized directional transmitting antenna with its center of radiation located at a height above ground of 343 meters, and a height above average terrain of 351 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 (40.68 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Dayton, Ohio.

## **ALLOCATION CONSIDERATIONS**

### ***Post-Transition DTV Considerations***

A new updated 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 amended 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 WKEF's proposed service area is within the baseline plus 1%.

### ***International DTV Considerations***

The WKEF site is located 254.4 kilometers from the nearest point on the US-Canadian border and more than 1,900 kilometers from the nearest point on the US-Mexican border. The new updated study also included Canadian facilities that are located within the coordination distance, however, none is predicted to be affected by the WKEF proposal. (See Appendix B)

## **BLANKETING AND INTERMODULATION INTERFERENCE**

Other broadcast and non-broadcast facilities are either co-located with, or located within 10 km of the proposed WKEF 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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**WKEF - Dayton, Ohio**  
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frequency in MHZ by 0.3.

The predicted emissions of WKEF must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WKEF, which will operate on television Channel 34 (590-596 MHZ), the MPE is 395.33 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) in an "uncontrolled" environment and 1,976.7  $\mu\text{W}/\text{cm}^2$  in a "controlled" environment. The proposed WKEF facility will operate with a maximum ERP of 747 kW from an elliptically polarized directional transmitting antenna with a centerline height of 343 meters above ground level (AGL). Considering a conservative predicted vertical plane relative field factor of 0.300 the WKEF facility is predicted to produce a power density at two meters above ground level of 38.633  $\mu\text{W}/\text{cm}^2$ , which is 9.77% of the FCC guideline value for an "uncontrolled" environment, and 1.954% of the FCC's guideline value for "controlled" environments. There are two other full-power DTV facilities, two LPTV DTV facilities and one FM station that are located at the WKEF 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 26.29% of the limit applicable to "uncontrolled" environments, and 5.258% of the limit for "controlled" environments. (See Appendix A)

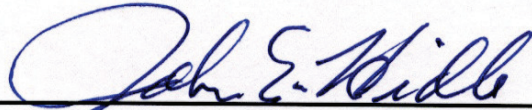
**OCCUPATIONAL SAFETY**


The licensee of WKEF is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WKEF 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.

**SUMMARY**

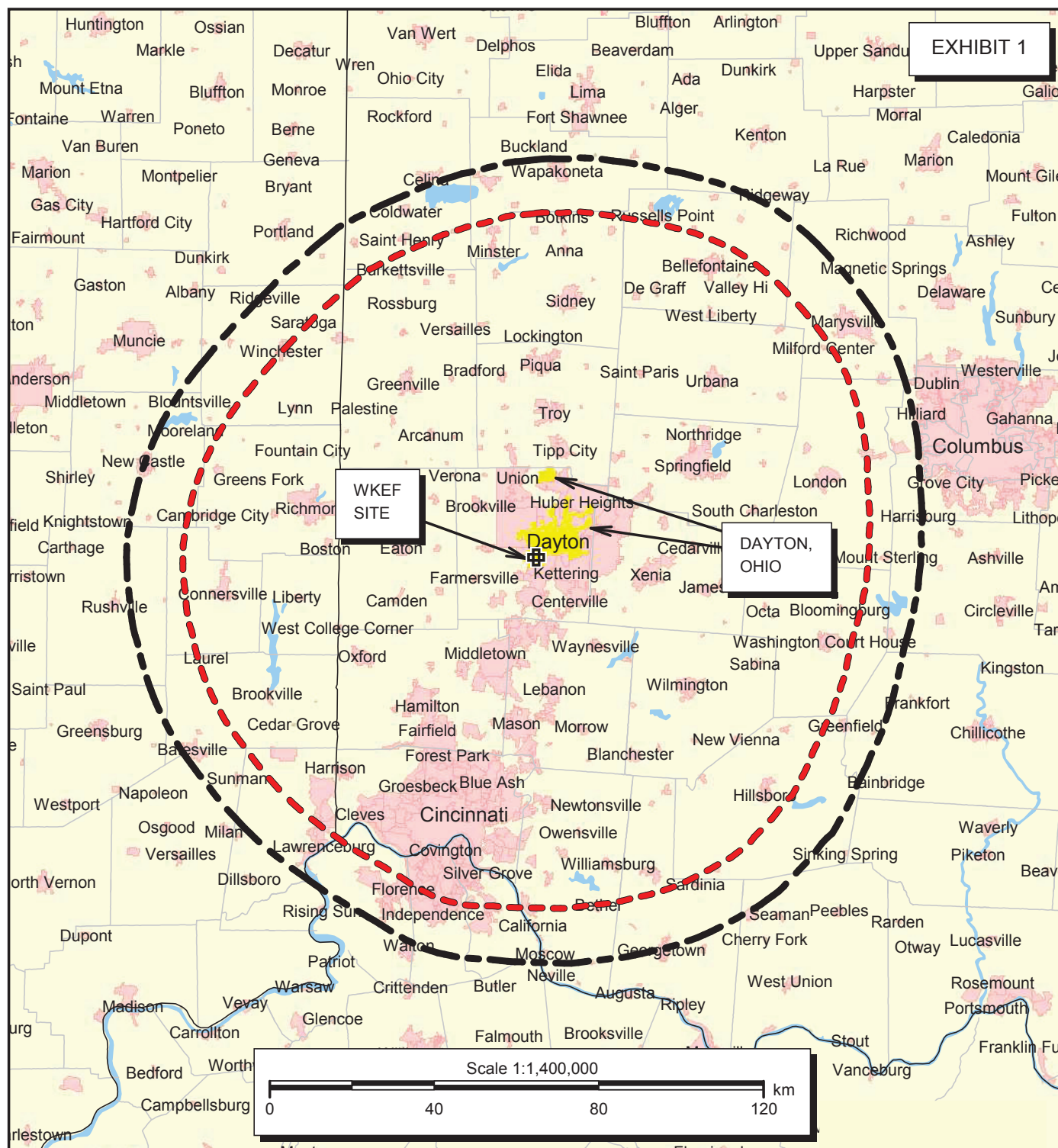
It is submitted that the instant amendment to an application for construction permit to change WKEF from channel 18 to channel 34, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement, FCC Form 2100, its technical sections, 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 20, 2017

  
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John E. Hidle, P.E.







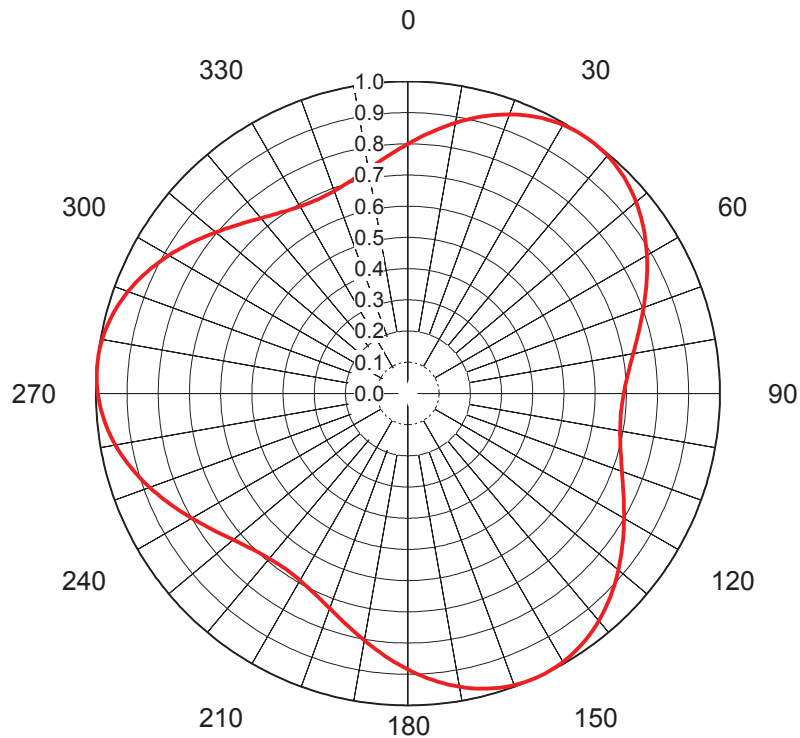
## PREDICTED COVERAGE CONTOURS

**WKEF - DAYTON, OHIO**  
**DTV Channel 34 - 747 kW ERP - 351 M HAAT**  
**JULY, 2017**

Predicted Noise Limited 40.68 dBu  
 F(50,90) Coverage Contour



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



## AZIMUTH PATTERN Horizontal Polarization

Proposal No. **C-70007**  
 Date **10-Mar-17**  
 Call Letters **WKEF**  
 Channel **34**  
 Frequency **593 MHz**  
 Antenna Type **TFU-24GTH/VP-R 6T140**  
 Gain **1.38 (1.41dB)**  
**Calculated**

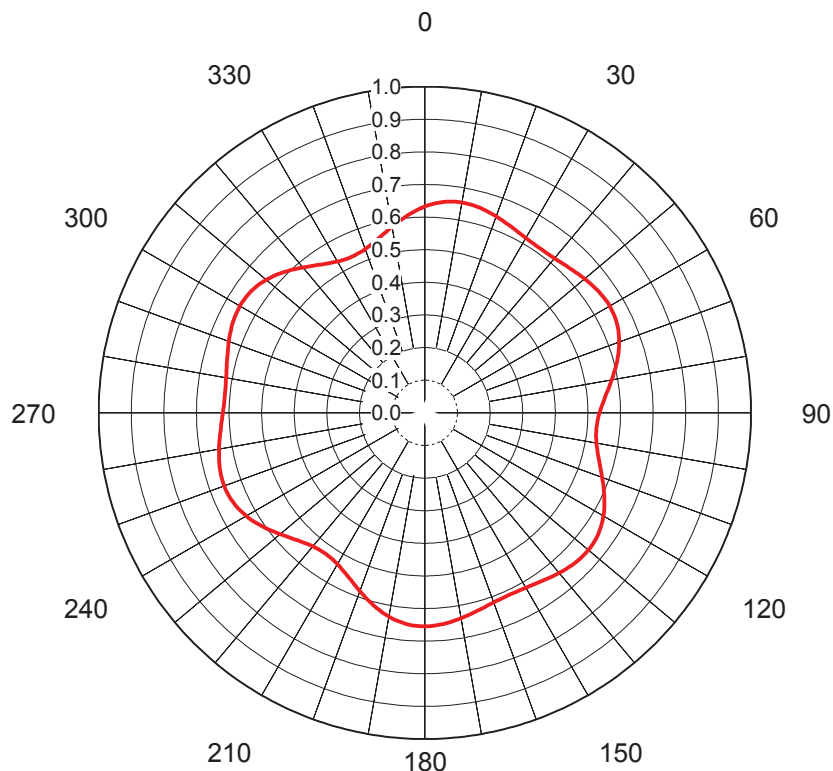
Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.800	36	1.000	72	0.788	108	0.720	144	0.973	180	0.885	216	0.686	252	0.896	288	0.966
1	0.808	37	0.999	73	0.781	109	0.725	145	0.978	181	0.877	217	0.687	253	0.904	289	0.960
2	0.816	38	0.998	74	0.773	110	0.730	146	0.982	182	0.869	218	0.688	254	0.912	290	0.955
3	0.824	39	0.997	75	0.766	111	0.736	147	0.985	183	0.861	219	0.689	255	0.919	291	0.949
4	0.832	40	0.995	76	0.759	112	0.742	148	0.989	184	0.852	220	0.691	256	0.926	292	0.943
5	0.840	41	0.993	77	0.752	113	0.749	149	0.992	185	0.844	221	0.693	257	0.933	293	0.936
6	0.848	42	0.990	78	0.746	114	0.756	150	0.994	186	0.836	222	0.696	258	0.939	294	0.929
7	0.857	43	0.987	79	0.739	115	0.762	151	0.996	187	0.828	223	0.699	259	0.946	295	0.922
8	0.865	44	0.984	80	0.733	116	0.770	152	0.998	188	0.820	224	0.702	260	0.952	296	0.915
9	0.873	45	0.980	81	0.728	117	0.777	153	0.999	189	0.812	225	0.706	261	0.958	297	0.908
10	0.881	46	0.975	82	0.722	118	0.784	154	1.000	190	0.804	226	0.710	262	0.963	298	0.900
11	0.889	47	0.971	83	0.717	119	0.792	155	1.000	191	0.796	227	0.715	263	0.968	299	0.893
12	0.896	48	0.966	84	0.712	120	0.800	156	1.000	192	0.788	228	0.720	264	0.973	300	0.885
13	0.904	49	0.960	85	0.708	121	0.808	157	0.999	193	0.781	229	0.725	265	0.978	301	0.877
14	0.912	50	0.955	86	0.704	122	0.816	158	0.998	194	0.773	230	0.730	266	0.982	302	0.869
15	0.919	51	0.949	87	0.700	123	0.824	159	0.997	195	0.766	231	0.736	267	0.985	303	0.861
16	0.926	52	0.943	88	0.697	124	0.832	160	0.995	196	0.759	232	0.742	268	0.989	304	0.852
17	0.933	53	0.936	89	0.694	125	0.840	161	0.993	197	0.752	233	0.749	269	0.992	305	0.844
18	0.939	54	0.929	90	0.692	126	0.848	162	0.990	198	0.746	234	0.756	270	0.994	306	0.836
19	0.946	55	0.922	91	0.690	127	0.857	163	0.987	199	0.739	235	0.762	271	0.996	307	0.828
20	0.952	56	0.915	92	0.688	128	0.865	164	0.984	200	0.733	236	0.770	272	0.998	308	0.820
21	0.958	57	0.908	93	0.687	129	0.873	165	0.980	201	0.728	237	0.777	273	0.999	309	0.812
22	0.963	58	0.900	94	0.686	130	0.881	166	0.975	202	0.722	238	0.784	274	1.000	310	0.804
23	0.968	59	0.893	95	0.686	131	0.889	167	0.971	203	0.717	239	0.792	275	1.000	311	0.796
24	0.973	60	0.885	96	0.686	132	0.896	168	0.966	204	0.712	240	0.800	276	1.000	312	0.788
25	0.978	61	0.877	97	0.687	133	0.904	169	0.960	205	0.708	241	0.808	277	0.999	313	0.781
26	0.982	62	0.869	98	0.688	134	0.912	170	0.955	206	0.704	242	0.816	278	0.998	314	0.773
27	0.985	63	0.861	99	0.689	135	0.919	171	0.949	207	0.700	243	0.824	279	0.997	315	0.766
28	0.989	64	0.852	100	0.691	136	0.926	172	0.943	208	0.697	244	0.832	280	0.995	316	0.759
29	0.992	65	0.844	101	0.693	137	0.933	173	0.936	209	0.694	245	0.840	281	0.993	317	0.752
30	0.994	66	0.836	102	0.696	138	0.939	174	0.929	210	0.692	246	0.848	282	0.990	318	0.746
31	0.996	67	0.828	103	0.699	139	0.946	175	0.922	211	0.690	247	0.857	283	0.987	319	0.739
32	0.998	68	0.820	104	0.702	140	0.952	176	0.915	212	0.688	248	0.865	284	0.984	320	0.733
33	0.999	69	0.812	105	0.706	141	0.958	177	0.908	213	0.687	249	0.873	285	0.980	321	0.728
34	1.000	70	0.804	106	0.710	142	0.963	178	0.900	214	0.686	250	0.881	286	0.975	322	0.722
35	1.000	71	0.796	107	0.715	143	0.968	179	0.893	215	0.686	251	0.889	287	0.971	323	0.717

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## AZIMUTH PATTERN Vertical Polarization

Proposal No. **C-70007**  
 Date **10-Mar-17**  
 Call Letters **WKEF**  
 Channel **34**  
 Frequency **593 MHz**  
 Antenna Type **TFU-24GTH/VP-R 6T140**  
 Gain **1.15 (0.59dB)**  
**Calculated**



Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.632	36	0.616	72	0.626	108	0.568	144	0.631	180	0.655	216	0.529	252	0.654	288	0.635
1	0.636	37	0.616	73	0.621	109	0.573	145	0.629	181	0.655	217	0.529	253	0.653	289	0.637
2	0.640	38	0.616	74	0.616	110	0.579	146	0.626	182	0.654	218	0.530	254	0.652	290	0.639
3	0.643	39	0.617	75	0.610	111	0.585	147	0.624	183	0.653	219	0.532	255	0.651	291	0.642
4	0.646	40	0.619	76	0.605	112	0.590	148	0.622	184	0.652	220	0.534	256	0.649	292	0.644
5	0.649	41	0.620	77	0.599	113	0.596	149	0.621	185	0.650	221	0.537	257	0.647	293	0.646
6	0.651	42	0.622	78	0.593	114	0.602	150	0.619	186	0.648	222	0.540	258	0.645	294	0.648
7	0.652	43	0.623	79	0.588	115	0.607	151	0.618	187	0.645	223	0.544	259	0.643	295	0.650
8	0.654	44	0.625	80	0.582	116	0.613	152	0.617	188	0.642	224	0.548	260	0.641	296	0.652
9	0.654	45	0.627	81	0.576	117	0.618	153	0.616	189	0.638	225	0.553	261	0.638	297	0.653
10	0.655	46	0.630	82	0.571	118	0.623	154	0.616	190	0.634	226	0.557	262	0.636	298	0.654
11	0.655	47	0.632	83	0.565	119	0.628	155	0.615	191	0.630	227	0.563	263	0.633	299	0.654
12	0.654	48	0.635	84	0.560	120	0.632	156	0.616	192	0.626	228	0.568	264	0.631	300	0.655
13	0.653	49	0.637	85	0.555	121	0.636	157	0.616	193	0.621	229	0.573	265	0.629	301	0.655
14	0.652	50	0.639	86	0.550	122	0.640	158	0.616	194	0.616	230	0.579	266	0.626	302	0.654
15	0.651	51	0.642	87	0.546	123	0.643	159	0.617	195	0.610	231	0.585	267	0.624	303	0.653
16	0.649	52	0.644	88	0.542	124	0.646	160	0.619	196	0.605	232	0.590	268	0.622	304	0.652
17	0.647	53	0.646	89	0.539	125	0.649	161	0.620	197	0.599	233	0.596	269	0.621	305	0.650
18	0.645	54	0.648	90	0.536	126	0.651	162	0.622	198	0.593	234	0.602	270	0.619	306	0.648
19	0.643	55	0.650	91	0.533	127	0.652	163	0.623	199	0.588	235	0.607	271	0.618	307	0.645
20	0.641	56	0.652	92	0.531	128	0.654	164	0.625	200	0.582	236	0.613	272	0.617	308	0.642
21	0.638	57	0.653	93	0.530	129	0.654	165	0.627	201	0.576	237	0.618	273	0.616	309	0.638
22	0.636	58	0.654	94	0.529	130	0.655	166	0.630	202	0.571	238	0.623	274	0.616	310	0.634
23	0.633	59	0.654	95	0.528	131	0.655	167	0.632	203	0.565	239	0.628	275	0.615	311	0.630
24	0.631	60	0.655	96	0.529	132	0.654	168	0.635	204	0.560	240	0.632	276	0.616	312	0.626
25	0.629	61	0.655	97	0.529	133	0.653	169	0.637	205	0.555	241	0.636	277	0.616	313	0.621
26	0.626	62	0.654	98	0.530	134	0.652	170	0.639	206	0.550	242	0.640	278	0.616	314	0.616
27	0.624	63	0.653	99	0.532	135	0.651	171	0.642	207	0.546	243	0.643	279	0.617	315	0.610
28	0.622	64	0.652	100	0.534	136	0.649	172	0.644	208	0.542	244	0.646	280	0.619	316	0.605
29	0.621	65	0.650	101	0.537	137	0.647	173	0.646	209	0.539	245	0.649	281	0.620	317	0.599
30	0.619	66	0.648	102	0.540	138	0.645	174	0.648	210	0.536	246	0.651	282	0.622	318	0.593
31	0.618	67	0.645	103	0.544	139	0.643	175	0.650	211	0.533	247	0.652	283	0.623	319	0.588
32	0.617	68	0.642	104	0.548	140	0.641	176	0.652	212	0.531	248	0.654	284	0.625	320	0.582
33	0.616	69	0.638	105	0.553	141	0.638	177	0.653	213	0.530	249	0.654	285	0.627	321	0.576
34	0.616	70	0.634	106	0.557	142	0.636	178	0.654	214	0.529	250	0.655	286	0.630	322	0.571
35	0.615	71	0.630	107	0.562	143	0.633	179	0.654	215	0.528	251	0.655	287	0.632	323	0.565

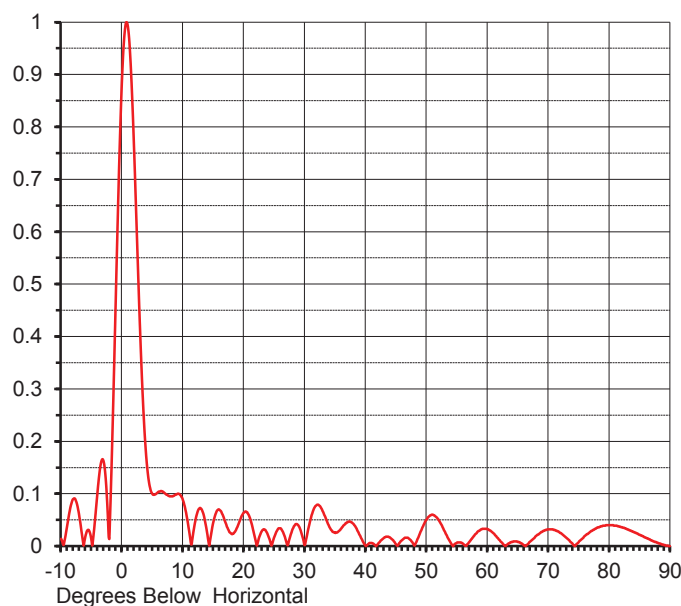
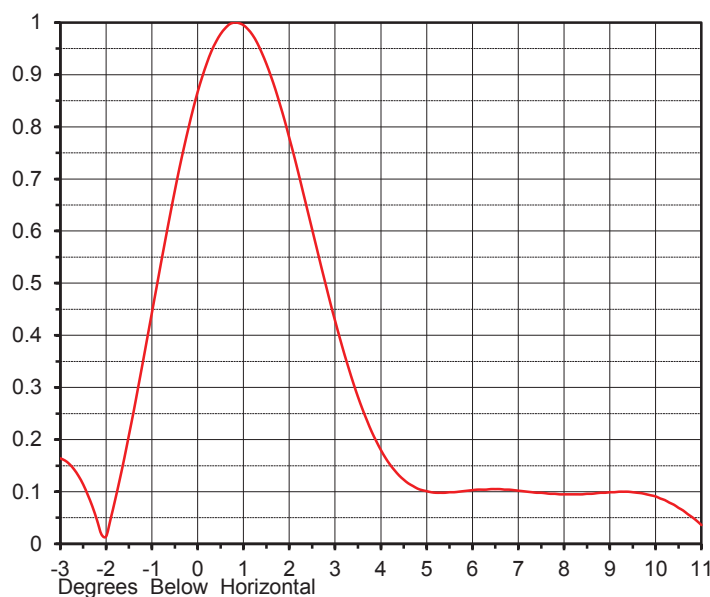
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## ELEVATION PATTERN

Proposal No. **C-70007**  
 Date **10-Mar-17**  
 Call Letters **WKEF**  
 Channel **34**  
 Frequency **593 MHz**  
 Antenna Type **TFU-24GTH/VP-R 6T140**

RMS Directivity at Main Lobe **21.5 ( 13.32 dB )**  
 RMS Directivity at Horizontal **16.2 ( 12.10 dB )**  
**Calculated**

Beam Tilt **0.75 deg**  
 Drawing Number **24G215075**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.014	10.0	0.087	30.0	0.002	50.0	0.051	70.0	0.032
-9.0	0.040	11.0	0.029	31.0	0.054	51.0	0.060	71.0	0.031
-8.0	0.090	12.0	0.047	32.0	0.079	52.0	0.049	72.0	0.025
-7.0	0.055	13.0	0.071	33.0	0.065	53.0	0.027	73.0	0.015
-6.0	0.020	14.0	0.022	34.0	0.037	54.0	0.005	74.0	0.003
-5.0	0.009	15.0	0.047	35.0	0.025	55.0	0.007	75.0	0.009
-4.0	0.108	16.0	0.069	36.0	0.034	56.0	0.004	76.0	0.020
-3.0	0.160	17.0	0.044	37.0	0.046	57.0	0.008	77.0	0.029
-2.0	0.048	18.0	0.023	38.0	0.042	58.0	0.023	78.0	0.035
-1.0	0.491	19.0	0.039	39.0	0.021	59.0	0.032	79.0	0.039
0.0	0.896	20.0	0.064	40.0	0.000	60.0	0.032	80.0	0.040
1.0	0.987	21.0	0.053	41.0	0.006	61.0	0.024	81.0	0.039
2.0	0.746	22.0	0.006	42.0	0.004	62.0	0.011	82.0	0.036
3.0	0.396	23.0	0.030	43.0	0.016	63.0	0.001	83.0	0.032
4.0	0.165	24.0	0.019	44.0	0.016	64.0	0.008	84.0	0.027
5.0	0.099	25.0	0.018	45.0	0.003	65.0	0.008	85.0	0.021
6.0	0.104	26.0	0.034	46.0	0.012	66.0	0.001	86.0	0.016
7.0	0.101	27.0	0.006	47.0	0.015	67.0	0.009	87.0	0.010
8.0	0.095	28.0	0.033	48.0	0.001	68.0	0.020	88.0	0.006
9.0	0.099	29.0	0.038	49.0	0.028	69.0	0.028	89.0	0.002
								90.0	0.000

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## SUMMARY OF RADIOFREQUENCY

### RADIATION STUDY

WKEF, Dayton, OH

Channel 34, 747 kW, 351 m HAAT

July, 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 (<math>\mu\text{W}/\text{cm}^2</math>)</u>	<u>FCC UNCONTROLLED LIMIT (<math>\mu\text{W}/\text{cm}^2</math>)</u>	<u>PERCENT OF UNCONTROLLED LIMIT</u>
WKEF	DT	34	593	H & V	343	747.000	0.300	38.633	395.33	9.77%
WLWD-LD	DT	20	509	H	250	5.000	0.300	0.244	339.33	0.07%
WBDT	DT	26	545	H	341	770.000	0.300	20.147	363.33	5.55%
WRGT-TV	DT	36	605	H & V	343	563.000	0.300	29.117	403.33	7.22%
WRCX-LP	DT	40	629	H	280	0.320	0.300	0.012	419.33	0.00%
WKCD	FM	212	90.3	H & V	283	8.700	1.000	7.362	200.00	3.68%
<b>TOTAL PERCENTAGE OF FCC GUIDELINE VALUE =</b>										<b>26.29%</b>

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



## WKEF - DAYTON, OHIO

### Amended Longley-Rice Interference Analysis

tvstudy v2.2.2

Database: localhost, Study: WKEF\_34\_351\_747K\_ANT, Model: Longley-Rice  
Start: 2017.07.20 10:51:54

Study created: 2017.07.20 10:51:42

Study build station data: LMS TV 2017-06-21 (26)

Proposal: WKEF D34 DT APP DAYTON, OH  
File number: WKEF\_34\_351\_747K\_ANT  
Facility ID: 73155  
Station data: User record  
Record ID: 927  
Country: U.S.  
Zone: I

Non-U.S. records included

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	202.9 km
WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	1.2
WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	360.1
WCPX-TV	D34	DT	BL	CHICAGO, IL	DTVBL10981	371.8
WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	172.2
WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	203.2
WKBD-TV	D34	DT	BL	DETROIT, MI	DTVBL51570	316.7
WVLT-TV	D34	DT	CP	KNOXVILLE, TN	BLANK0000025085	415.3
WVLT-TV	D34	DT	BL	KNOXVILLE, TN	DTVBL35908	415.3
WLSL-TV	D34	DT	BL	ROANOKE, VA	DTVBL57840	454.3
WNPB-TV	D34	DT	BL	MORGANTOWN, WV	DTVBL71676	384.1
WKLE	D35	DT	BL	LEXINGTON, KY	DTVBL34207	205.2
WPTD	D35	DT	BL	DAYTON, OH	DTVBL25067	0.6
WTAP-TV	D35	DT	BL	PARKERSBURG, WV	DTVBL4685	234.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D34  
Latitude: 39 43 28.00 N (NAD83)  
Longitude: 84 15 18.00 W  
Height AMSL: 616.1 m  
HAAT: 351.0 m  
Peak ERP: 747 kW  
Antenna: DIE-TFU-24-GTH/VP-R 6T140 0.0 deg

40.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	478 kW	354.3 m	96.4 km
45.0	710	379.2	101.8
90.0	358	346.6	93.4
135.0	627	347.2	98.1
180.0	585	355.2	98.2
225.0	377	380.4	96.5
270.0	738	345.4	99.3
315.0	441	326.0	93.1

# Amended Appendix B - Interference Analysis

## WKEF - Dayton, Ohio

### Channel 34 - 747 kW - Page 2

Database HAAT does not agree with computed HAAT  
Database HAAT: 351 m Computed HAAT: 354 m

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

\*\*Proposal is within coordination distance of Canadian border  
Distance to Canadian border: 254.4 km

Distance to Mexican border: 1905.9 km

Conditions at FCC monitoring station: Allegan MI  
Bearing: 336.6 degrees Distance: 350.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 278.3 degrees Distance: 1783.6 km

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 DTVBL66536 BL, scenario 1  
Proposal causes no interference.

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Interference to DTVBL66536 BL, scenario 2  
Proposal causes no interference.

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Interference to DTVBL41458 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	1.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	1.2
	WANE-TV	D32	DT	BL	FORT WAYNE, IN	DTVBL39270	170.5
	WOUB-TV	D32	DT	APP	ATHENS, OH	BLANK0000025156	185.8
	WOCB-CD	D32	DC	CP	MARION, OH	BLANK0000024957	120.5
	WMAQ-TV	D33	DT	BL	CHICAGO, IL	DTVBL47905	371.6
	WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	203.8
	WKHA	D33	DT	BL	HAZARD, KY	DTVBL34196	297.1
	WKAR-TV	D33	DT	BL	EAST LANSING, MI	DTVBL6104	330.2
	WOHO-CD	D33	DC	LIC	HOLLAND, MI	BLDTA20120316ACT	371.1
	WOKZ-CD	D33	DC	BL	KALAMAZOO, MI	DTVBL36841	307.9
	WFMJ-TV	D33	DT	CP	YOUNGSTOWN, OH	BLANK0000024782	340.0
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	171.5
	CIII-DT-22D33	DT	LIC		STEVENSON, ON	BLANKCANADA222	298.1

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	32224.8	3,878,500	31941.1	3,869,319	31548.9
					3,850,646
					31548.9
					3,850,646
					0.00
					0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	19.9	671	15.9
WKEF D34 DT APP	19.9	671	15.9
WOCB-CD D32 DC CP	56.3	1,106	52.3
WTIU D33 DT BL	175.7	15,174	131.6
WKHA D33 DT BL	12.0	113	12.0
WKAR-TV D33 DT BL	72.1	843	4.0
WFMJ-TV D33 DT CP	168.4	2,195	100.3

**Amended Appendix B - Interference Analysis**  
**WKEF - Dayton, Ohio**  
**Channel 34 - 747 kW - Page 3**

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Interference to DTVBL41458 BL, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	1.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	1.2
	WANE-TV	D32	DT	BL	FORT WAYNE, IN	DTVBL39270	170.5
	WOUB-TV	D32	DT	APP	ATHENS, OH	BLANK0000025156	185.8
	WOCB-CD	D32	DC	BL	MARION, OH	DTVBL9939	120.5
	WMAQ-TV	D33	DT	BL	CHICAGO, IL	DTVBL47905	371.6
	WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	203.8
	WKHA	D33	DT	BL	HAZARD, KY	DTVBL34196	297.1
	WKAR-TV	D33	DT	BL	EAST LANSING, MI	DTVBL6104	330.2
	WOHO-CD	D33	DC	LIC	HOLLAND, MI	BLDTA20120316ACT	371.1
	WOKZ-CD	D33	DC	BL	KALAMAZOO, MI	DTVBL36841	307.9
	WFMJ-TV	D33	DT	CP	YOUNGSTOWN, OH	BLANK0000024782	340.0
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	171.5
	CIII-DT-22D33	DT	LIC		STEVENSON, ON	BLANKCANADA222	298.1
-----							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	32224.8	3,878,500	31941.1	3,869,319	31548.9	3,850,646	0.00 0.00
-----							
Undesired			Total IX	Unique IX, before		Unique IX, after	
WKEF D34 DT BL			19.9	671	15.9	529	
WKEF D34 DT APP			19.9	671		15.9 529	
WOCB-CD D32 DC BL			60.3	1,128	52.3	1,044	52.3 1,044
WTIU D33 DT BL			175.7	15,174	131.6	14,514	131.6 14,514
WKHA D33 DT BL			12.0	113	12.0	113	12.0 113
WKAR-TV D33 DT BL			72.1	843	4.0	89	4.0 89
WFMJ-TV D33 DT CP			168.4	2,195	96.2	1,404	96.2 1,404

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Interference to DTVBL41458 BL, scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	1.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	1.2
	WANE-TV	D32	DT	BL	FORT WAYNE, IN	DTVBL39270	170.5
	WOUB-TV	D32	DT	APP	ATHENS, OH	BLANK0000025156	185.8
	WOCB-CD	D32	DC	CP	MARION, OH	BLANK0000024957	120.5
	WMAQ-TV	D33	DT	BL	CHICAGO, IL	DTVBL47905	371.6
	WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	203.8
	WKHA	D33	DT	BL	HAZARD, KY	DTVBL34196	297.1
	WKAR-TV	D33	DT	BL	EAST LANSING, MI	DTVBL6104	330.2
	WOHO-CD	D33	DC	LIC	HOLLAND, MI	BLDTA20120316ACT	371.1
	WOKZ-CD	D33	DC	BL	KALAMAZOO, MI	DTVBL36841	307.9
	WFMJ-TV	D33	DT	BL	YOUNGSTOWN, OH	DTVBL72062	340.0
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	171.5
	CIII-DT-22D33	DT	LIC		STEVENSON, ON	BLANKCANADA222	298.1
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	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	32224.8	3,878,500	31941.1	3,869,319	31544.9	3,850,392	0.00 0.00
-----							
Undesired			Total IX	Unique IX, before		Unique IX, after	
WKEF D34 DT BL			19.9	671	15.9	529	
WKEF D34 DT APP			19.9	671		15.9 529	
WOCB-CD D32 DC CP			56.3	1,106	52.3	1,044	52.3 1,044
WTIU D33 DT BL			175.7	15,174	131.6	14,514	131.6 14,514
WKHA D33 DT BL			12.0	113	12.0	113	12.0 113
WKAR-TV D33 DT BL			72.1	843	4.0	89	4.0 89
WFMJ-TV D33 DT BL			172.4	2,449	104.3	1,680	104.3 1,680

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**Amended Appendix B - Interference Analysis**  
**WKEF - Dayton, Ohio**  
**Channel 34 - 747 kW - Page 4**

Interference to DTVBL41458 BL, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	1.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	1.2
	WANE-TV	D32	DT	BL	FORT WAYNE, IN	DTVBL39270	170.5
	WOUB-TV	D32	DT	APP	ATHENS, OH	BLANK0000025156	185.8
	WOCB-CD	D32	DC	BL	MARION, OH	DTVBL9939	120.5
	WMAQ-TV	D33	DT	BL	CHICAGO, IL	DTVBL47905	371.6
	WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	203.8
	WKHA	D33	DT	BL	HAZARD, KY	DTVBL34196	297.1
	WKAR-TV	D33	DT	BL	EAST LANSING, MI	DTVBL6104	330.2
	WOHO-CD	D33	DC	LIC	HOLLAND, MI	BLDTA20120316ACT	371.1
	WOKZ-CD	D33	DC	BL	KALAMAZOO, MI	DTVBL36841	307.9
	WFMJ-TV	D33	DT	BL	YOUNGSTOWN, OH	DTVBL72062	340.0
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	171.5
	CIII-DT-22D33	DT	LIC		STEVENSON, ON	BLANKCANADA222	298.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32224.8 3,878,500	31941.1 3,869,319	31544.9 3,850,392	31544.9 3,850,392	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL 19.9	671	15.9 529	
WKEF D34 DT APP 19.9	671	15.9 529	
WOCB-CD D32 DC BL 60.3	1,128	52.3 1,044	52.3 1,044
WTIU D33 DT BL 175.7	15,174	131.6 14,514	131.6 14,514
WKHA D33 DT BL 12.0	113	12.0 113	12.0 113
WKAR-TV D33 DT BL 72.1	843	4.0 89	4.0 89
WFMJ-TV D33 DT BL 172.4	2,449	100.3 1,658	100.3 1,658

Interference to DTVBL41458 BL, scenario 5

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	1.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	1.2
	WANE-TV	D32	DT	BL	FORT WAYNE, IN	DTVBL39270	170.5
	WOUB-TV	D32	DT	BL	ATHENS, OH	DTVBL50147	185.8
	WOCB-CD	D32	DC	CP	MARION, OH	BLANK0000024957	120.5
	WMAQ-TV	D33	DT	BL	CHICAGO, IL	DTVBL47905	371.6
	WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	203.8
	WKHA	D33	DT	BL	HAZARD, KY	DTVBL34196	297.1
	WKAR-TV	D33	DT	BL	EAST LANSING, MI	DTVBL6104	330.2
	WOHO-CD	D33	DC	LIC	HOLLAND, MI	BLDTA20120316ACT	371.1
	WOKZ-CD	D33	DC	BL	KALAMAZOO, MI	DTVBL36841	307.9
	WFMJ-TV	D33	DT	CP	YOUNGSTOWN, OH	BLANK0000024782	340.0
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	171.5
	CIII-DT-22D33	DT	LIC		STEVENSON, ON	BLANKCANADA222	298.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32224.8 3,878,500	31941.1 3,869,319	31548.9 3,850,646	31548.9 3,850,646	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL 19.9	671	15.9 529	
WKEF D34 DT APP 19.9	671	15.9 529	
WOCB-CD D32 DC CP 56.3	1,106	52.3 1,044	52.3 1,044
WTIU D33 DT BL 175.7	15,174	131.6 14,514	131.6 14,514
WKHA D33 DT BL 12.0	113	12.0 113	12.0 113
WKAR-TV D33 DT BL 72.1	843	4.0 89	4.0 89
WFMJ-TV D33 DT CP 168.4	2,195	100.3 1,426	100.3 1,426

Interference to DTVBL41458 BL, scenario 6

**Amended Appendix B - Interference Analysis**  
**WKEF - Dayton, Ohio**  
**Channel 34 - 747 kW - Page 5**

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	1.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	1.2
	WANE-TV	D32	DT	BL	FORT WAYNE, IN	DTVBL39270	170.5
	WOUB-TV	D32	DT	BL	ATHENS, OH	DTVBL50147	185.8
	WOCB-CD	D32	DC	BL	MARION, OH	DTVBL9939	120.5
	WMAQ-TV	D33	DT	BL	CHICAGO, IL	DTVBL47905	371.6
	WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	203.8
	WKHA	D33	DT	BL	HAZARD, KY	DTVBL34196	297.1
	WKAR-TV	D33	DT	BL	EAST LANSING, MI	DTVBL6104	330.2
	WOHO-CD	D33	DC	LIC	HOLLAND, MI	BLDTA20120316ACT	371.1
	WOKZ-CD	D33	DC	BL	KALAMAZOO, MI	DTVBL36841	307.9
	WFMJ-TV	D33	DT	CP	YOUNGSTOWN, OH	BLANK0000024782	340.0
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	171.5
	CIII-DT-22D33	DT	LIC		STEVENSON, ON	BLANKCANADA222	298.1

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	32224.8	3,878,500	31941.1	3,850,646	0.00
Undesired			Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	19.9		671	15.9	529
WKEF D34 DT APP	19.9		671		529
WOCB-CD D32 DC BL	60.3		1,128	52.3	1,044
WTIU D33 DT BL	175.7		15,174	131.6	14,514
WKHA D33 DT BL	12.0		113	12.0	113
WKAR-TV D33 DT BL	72.1		843	4.0	89
WFMJ-TV D33 DT CP	168.4		2,195	96.2	1,404

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Interference to DTVBL41458 BL, scenario 7

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	1.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	1.2
	WANE-TV	D32	DT	BL	FORT WAYNE, IN	DTVBL39270	170.5
	WOUB-TV	D32	DT	BL	ATHENS, OH	DTVBL50147	185.8
	WOCB-CD	D32	DC	CP	MARION, OH	BLANK0000024957	120.5
	WMAQ-TV	D33	DT	BL	CHICAGO, IL	DTVBL47905	371.6
	WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	203.8
	WKHA	D33	DT	BL	HAZARD, KY	DTVBL34196	297.1
	WKAR-TV	D33	DT	BL	EAST LANSING, MI	DTVBL6104	330.2
	WOHO-CD	D33	DC	LIC	HOLLAND, MI	BLDTA20120316ACT	371.1
	WOKZ-CD	D33	DC	BL	KALAMAZOO, MI	DTVBL36841	307.9
	WFMJ-TV	D33	DT	BL	YOUNGSTOWN, OH	DTVBL72062	340.0
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	171.5
	CIII-DT-22D33	DT	LIC		STEVENSON, ON	BLANKCANADA222	298.1

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	32224.8	3,878,500	31941.1	3,850,392	0.00
Undesired			Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	19.9		671	15.9	529
WKEF D34 DT APP	19.9		671		529
WOCB-CD D32 DC CP	56.3		1,106	52.3	1,044
WTIU D33 DT BL	175.7		15,174	131.6	14,514
WKHA D33 DT BL	12.0		113	12.0	113
WKAR-TV D33 DT BL	72.1		843	4.0	89
WFMJ-TV D33 DT BL	172.4		2,449	104.3	1,680

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Interference to DTVBL41458 BL, scenario 8

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	

**Amended Appendix B - Interference Analysis**  
**WKEF - Dayton, Ohio**  
**Channel 34 - 747 kW - Page 6**

Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	1.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	1.2
	WANE-TV	D32	DT	BL	FORT WAYNE, IN	DTVBL39270	170.5
	WOUB-TV	D32	DT	BL	ATHENS, OH	DTVBL50147	185.8
	WOCB-CD	D32	DC	BL	MARION, OH	DTVBL9939	120.5
	WMAQ-TV	D33	DT	BL	CHICAGO, IL	DTVBL47905	371.6
	WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	203.8
	WKHA	D33	DT	BL	HAZARD, KY	DTVBL34196	297.1
	WKAR-TV	D33	DT	BL	EAST LANSING, MI	DTVBL6104	330.2
	WOHO-CD	D33	DC	LIC	HOLLAND, MI	BLDTA20120316ACT	371.1
	WOKZ-CD	D33	DC	BL	KALAMAZOO, MI	DTVBL36841	307.9
	WFMJ-TV	D33	DT	BL	YOUNGSTOWN, OH	DTVBL72062	340.0
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	171.5
	CIII-DT-22D33	DT	LIC	STEVENSON, ON	BLANKCANADA222		298.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32224.8 3,878,500	31941.1 3,869,319	31544.9 3,850,392	31544.9 3,850,392	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	19.9 671	15.9 529	
WKEF D34 DT APP	19.9 671		15.9 529
WOCB-CD D32 DC BL	60.3 1,128	52.3 1,044	52.3 1,044
WTIU D33 DT BL	175.7 15,174	131.6 14,514	131.6 14,514
WKHA D33 DT BL	12.0 113	12.0 113	12.0 113
WKAR-TV D33 DT BL	72.1 843	4.0 89	4.0 89
WFMJ-TV D33 DT BL	172.4 2,449	100.3 1,658	100.3 1,658

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Interference to DTVBL42124 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	360.1 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	360.1
	WAOE	D33	DT	BL	PEORIA, IL	DTVBL52280	109.7
	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	210.7
	WCPX-TV	D34	DT	BL	CHICAGO, IL	DTVBL10981	208.6
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	279.4
	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	243.7
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	297.0
	WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	296.9
	WWSR-TV	D34	DT	BL	MAYVILLE, WI	DTVBL68547	370.2
	WTVP	D35	DT	BL	PEORIA, IL	DTVBL28311	111.2
	WTWO	D35	DT	BL	TERRE HAUTE, IN	DTVBL20426	131.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
23544.2 796,609	23540.2 796,599	22834.2 790,336	22834.2 790,336	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	4.0 1,140	0.0 0	
WKEF D34 DT APP	4.0 1,140		0.0 0
WAOE D33 DT BL	20.0 396	0.0 0	0.0 0
KQIN D34 DT LIC	12.0 343	0.0 0	0.0 0
WCPX-TV D34 DT BL	498.6 4,629	478.5 3,047	478.5 3,047
WSIL-TV D34 DT LIC	67.6 310	43.7 234	43.7 234
WISE-TV D34 DT BL	8.1 1,214	4.0 74	4.0 74
WTVP D35 DT BL	104.1 1,437	84.1 1,041	84.1 1,041
WTWO D35 DT BL	67.5 195	43.7 119	43.7 119

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Interference to DTVBL42124 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	360.1 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	360.1

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WAOE	D33	DT	BL	PEORIA, IL	DTVBL52280	109.7
KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	210.7
WCPX-TV	D34	DT	BL	CHICAGO, IL	DTVBL10981	208.6
WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	279.4
WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	243.7
WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	297.0
WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	296.9
WWSR-TV	D34	DT	BL	MAYVILLE, WI	DTVBL68547	370.2
WTVP	D35	DT	BL	PEORIA, IL	DTVBL28311	111.2
WTWO	D35	DT	BL	TERRE HAUTE, IN	DTVBL20426	131.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
23544.2 796,609	23540.2 796,599	22834.2 790,336	22834.2 790,336	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	4.0 1,140	0.0 0	
WKEF D34 DT APP	4.0 1,140		0.0 0
WAOE D33 DT BL	20.0 396	0.0 0	0.0 0
KQIN D34 DT LIC	12.0 343	0.0 0	0.0 0
WCPX-TV D34 DT BL	498.6 4,629	478.5 3,047	478.5 3,047
WSIL-TV D34 DT LIC	67.6 310	43.7 234	43.7 234
WISE-TV D34 DT BL	8.1 1,214	4.0 74	4.0 74
WTVP D35 DT BL	104.1 1,437	84.1 1,041	84.1 1,041
WTWO D35 DT BL	67.5 195	43.7 119	43.7 119

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Interference to DTVBL42124 BL, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	360.1 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	360.1
	WAOE	D33	DT	BL	PEORIA, IL	DTVBL52280	109.7
	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	210.7
	WCPX-TV	D34	DT	BL	CHICAGO, IL	DTVBL10981	208.6
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	279.4
	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	243.7
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	297.0
	WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	296.9
	WWSR-TV	D34	DT	BL	MAYVILLE, WI	DTVBL68547	370.2
	WTVP	D35	DT	BL	PEORIA, IL	DTVBL28311	111.2
	WTWO	D35	DT	BL	TERRE HAUTE, IN	DTVBL20426	131.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
23544.2 796,609	23540.2 796,599	22834.2 790,336	22834.2 790,336	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	4.0 1,140	0.0 0	
WKEF D34 DT APP	4.0 1,140		0.0 0
WAOE D33 DT BL	20.0 396	0.0 0	0.0 0
KQIN D34 DT LIC	12.0 343	0.0 0	0.0 0
WCPX-TV D34 DT BL	498.6 4,629	478.5 3,047	478.5 3,047
WSIL-TV D34 DT LIC	67.6 310	43.7 234	43.7 234
WISE-TV D34 DT BL	8.1 1,214	4.0 74	4.0 74
WTVP D35 DT BL	104.1 1,437	84.1 1,041	84.1 1,041
WTWO D35 DT BL	67.5 195	43.7 119	43.7 119

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Interference to DTVBL42124 BL, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	360.1 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	360.1
	WAOE	D33	DT	BL	PEORIA, IL	DTVBL52280	109.7
	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	210.7

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WCPX-TV	D34	DT	BL	CHICAGO, IL	DTVBL10981	208.6
WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	279.4
WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	243.7
WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	297.0
WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	296.9
WWSR-TV	D34	DT	BL	MAYVILLE, WI	DTVBL68547	370.2
WTVP	D35	DT	BL	PEORIA, IL	DTVBL28311	111.2
WTWO	D35	DT	BL	TERRE HAUTE, IN	DTVBL20426	131.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
23544.2 796,609	23540.2 796,599	22834.2 790,336	22834.2 790,336	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL 4.0	1,140	0.0 0	
WKEF D34 DT APP 4.0	1,140		0.0 0
WAOE D33 DT BL 20.0	396	0.0 0	0.0 0
KQIN D34 DT LIC 12.0	343	0.0 0	0.0 0
WCPX-TV D34 DT BL 498.6	4,629	478.5 3,047	478.5 3,047
WSIL-TV D34 DT LIC 67.6	310	43.7 234	43.7 234
WISE-TV D34 DT BL 8.1	1,214	4.0 74	4.0 74
WTVP D35 DT BL 104.1	1,437	84.1 1,041	84.1 1,041
WTWO D35 DT BL 67.5	195	43.7 119	43.7 119

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Interference to DTVBL10981 BL, scenario 1  
Proposal causes no interference.

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Interference to DTVBL10981 BL, scenario 2  
Proposal causes no interference.

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Interference to DTVBL13960 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	172.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	172.2
	WOKZ-CD	D33	DC	BL	KALAMAZOO, MI	DTVBL36841	138.1
	WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	171.5
	WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	297.0
	WCPX-TV	D34	DT	BL	CHICAGO, IL	DTVBL10981	221.6
	WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	309.0
	WKBD-TV	D34	DT	BL	DETROIT, MI	DTVBL51570	218.3
	WWSR-TV	D34	DT	BL	MAYVILLE, WI	DTVBL68547	377.9
	WOLP-CD	D35	DC	BL	GRAND RAPIDS, MI	DTVBL167892	178.2
	WPTD	D35	DT	BL	DAYTON, OH	DTVBL25067	172.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
20465.5 1,089,665	20465.5 1,089,665	20281.0 1,077,394	20281.0 1,077,394	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL 184.5	12,271	168.5 11,858	
WKEF D34 DT APP 184.5	12,271		168.5 11,858
WCIA D34 DT BL 12.0	161	0.0 0	0.0 0
WCPX-TV D34 DT BL 4.0	252	0.0 0	0.0 0

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Interference to DTVBL13960 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	172.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	172.2
	WOKZ-CD	D33	DC	BL	KALAMAZOO, MI	DTVBL36841	138.1
	WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	171.5

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WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	297.0
WCPX-TV	D34	DT	BL	CHICAGO, IL	DTVBL10981	221.6
WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	309.0
WKBD-TV	D34	DT	BL	DETROIT, MI	DTVBL51570	218.3
WWSR-TV	D34	DT	BL	MAYVILLE, WI	DTVBL68547	377.9
WOLP-CD	D35	DC	BL	GRAND RAPIDS, MI	DTVBL167892	178.2
WPTD	D35	DT	BL	DAYTON, OH	DTVBL25067	172.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
20465.5 1,089,665	20465.5 1,089,665	20281.0 1,077,394	20281.0 1,077,394	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	184.5 12,271	168.5 11,858	
WKEF D34 DT APP	184.5 12,271		168.5 11,858
WCIA D34 DT BL	12.0 161	0.0 0	0.0 0
WCPX-TV D34 DT BL	4.0 252	0.0 0	0.0 0

-----  
Interference to DTVBL34195 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	203.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	203.2
	WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	103.6
	WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	296.9
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	279.2
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	309.0
	WVLT-TV	D34	DT	CP	KNOXVILLE, TN	BLANK0000025085	311.5
	WKLE	D35	DT	BL	LEXINGTON, KY	DTVBL34207	142.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
13960.6 1,426,739	13665.5 1,418,474	13254.2 1,409,894	13254.2 1,409,848	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	355.5 7,762	243.6 5,032	
WKEF D34 DT APP	351.5 7,803		243.6 5,078
WTIU D33 DT BL	4.0 32	0.0 0	0.0 0
WCIA D34 DT BL	80.3 2,189	8.0 20	8.0 20
WSIL-TV D34 DT LIC	111.6 2,823	35.7 535	39.8 540
WISE-TV D34 DT BL	32.1 1,281	0.0 0	0.0 0
WVLT-TV D34 DT CP	19.8 383	3.9 226	3.9 226

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Interference to DTVBL34195 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	203.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	203.2
	WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	103.6
	WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	296.9
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	279.2
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	309.0
	WVLT-TV	D34	DT	BL	KNOXVILLE, TN	DTVBL35908	311.5
	WKLE	D35	DT	BL	LEXINGTON, KY	DTVBL34207	142.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
13960.6 1,426,739	13665.5 1,418,474	13254.2 1,409,894	13254.2 1,409,848	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	355.5 7,762	243.6 5,032	
WKEF D34 DT APP	351.5 7,803		243.6 5,078
WTIU D33 DT BL	4.0 32	0.0 0	0.0 0
WCIA D34 DT BL	80.3 2,189	8.0 20	8.0 20
WSIL-TV D34 DT LIC	111.6 2,823	35.7 535	39.8 540



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WISE-TV D34 DT BL	32.1	1,281	0.0	0	0.0	0
WVLT-TV D34 DT BL	19.8	383	3.9	226	3.9	226

-----  
Interference to DTVBL34195 BL, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	203.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	203.2
	WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	103.6
	WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	296.9
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	279.2
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	309.0
	WVLT-TV	D34	DT	CP	KNOXVILLE, TN	BLANK0000025085	311.5
	WKLE	D35	DT	BL	LEXINGTON, KY	DTVBL34207	142.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
13960.6 1,426,739	13665.5 1,418,474	13254.2 1,409,894	13254.2 1,409,848	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	355.5 7,762	243.6 5,032	
WKEF D34 DT APP	351.5 7,803		243.6 5,078
WTIU D33 DT BL	4.0 32	0.0 0	0.0 0
WCIA D34 DT BL	80.3 2,189	8.0 20	8.0 20
WSIL-TV D34 DT LIC	111.6 2,823	35.7 535	39.8 540
WISE-TV D34 DT BL	32.1 1,281	0.0 0	0.0 0
WVLT-TV D34 DT CP	19.8 383	3.9 226	3.9 226

-----  
Interference to DTVBL34195 BL, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	203.2 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	203.2
	WTIU	D33	DT	BL	BLOOMINGTON, IN	DTVBL66536	103.6
	WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	296.9
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	279.2
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	309.0
	WVLT-TV	D34	DT	BL	KNOXVILLE, TN	DTVBL35908	311.5
	WKLE	D35	DT	BL	LEXINGTON, KY	DTVBL34207	142.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
13960.6 1,426,739	13665.5 1,418,474	13254.2 1,409,894	13254.2 1,409,848	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	355.5 7,762	243.6 5,032	
WKEF D34 DT APP	351.5 7,803		243.6 5,078
WTIU D33 DT BL	4.0 32	0.0 0	0.0 0
WCIA D34 DT BL	80.3 2,189	8.0 20	8.0 20
WSIL-TV D34 DT LIC	111.6 2,823	35.7 535	39.8 540
WISE-TV D34 DT BL	32.1 1,281	0.0 0	0.0 0
WVLT-TV D34 DT BL	19.8 383	3.9 226	3.9 226

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Interference to DTVBL51570 BL, scenario 1  
Proposal causes no interference.

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Interference to BLANK0000025085 CP, scenario 1  
Proposal causes no interference.

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Interference to BLANK0000025085 CP, scenario 2  
Proposal causes no interference.

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-----  
Interference to BLANK0000025085 CP, scenario 3  
Proposal causes no interference.

-----  
Interference to BLANK0000025085 CP, scenario 4  
Proposal causes no interference.

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Interference to BLANK0000025085 CP, scenario 5  
Proposal causes no interference.

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Interference to BLANK0000025085 CP, scenario 6  
Proposal causes no interference.

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Interference to BLANK0000025085 CP, scenario 7  
Proposal causes no interference.

-----  
Interference to BLANK0000025085 CP, scenario 8  
Proposal causes no interference.

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Interference to DTVBL35908 BL, scenario 1  
Proposal causes no interference.

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Interference to DTVBL35908 BL, scenario 2  
Proposal causes no interference.

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Interference to DTVBL35908 BL, scenario 3  
Proposal causes no interference.

-----  
Interference to DTVBL35908 BL, scenario 4  
Proposal causes no interference.

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Interference to DTVBL35908 BL, scenario 5  
Proposal causes no interference.

-----  
Interference to DTVBL35908 BL, scenario 6  
Proposal causes no interference.

-----  
Interference to DTVBL35908 BL, scenario 7  
Proposal causes no interference.

-----  
Interference to DTVBL35908 BL, scenario 8  
Proposal causes no interference.

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Interference to DTVBL57840 BL, scenario 1  
Proposal causes no interference.

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Interference to DTVBL57840 BL, scenario 2  
Proposal causes no interference.

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Interference to DTVBL57840 BL, scenario 3  
Proposal causes no interference.

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Interference to DTVBL57840 BL, scenario 4  
Proposal causes no interference.

-----  
Interference to DTVBL57840 BL, scenario 5  
Proposal causes no interference.

-----  
Interference to DTVBL57840 BL, scenario 6  
Proposal causes no interference.

-----  
Interference to DTVBL57840 BL, scenario 7  
Proposal causes no interference.

-----  
Interference to DTVBL57840 BL, scenario 8  
Proposal causes no interference.

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Interference to DTVBL71676 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNPB-TV	D34	DT	BL	MORGANTOWN, WV	DTVBL71676	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	384.1 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	384.1
	WFMJ-TV	D33	DT	CP	YOUNGSTOWN, OH	BLANK0000024782	170.9
	WRC-TV	D34	DT	BL	WASHINGTON, DC	DTVBL47904	245.3
	WKBW-TV	D34	DT	BL	BUFFALO, NY	DTVBL54176	340.6
	WSLS-TV	D34	DT	BL	ROANOKE, VA	DTVBL57840	279.3
	WJAC-TV	D35	DT	BL	JOHNSTOWN, PA	DTVBL73120	100.2
	WTAP-TV	D35	DT	BL	PARKERSBURG, WV	DTVBL4685	159.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
23447.4 1,578,663	20964.5 1,441,860	20667.5 1,428,228	20667.5 1,428,228	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL 4.0 146	4.0 146	4.0 146	
WKEF D34 DT APP 4.0 146		4.0 146	
WRC-TV D34 DT BL 115.9 1,542	103.8 1,328	103.8 1,328	
WKBW-TV D34 DT BL 28.1 7,716	24.1 7,554	24.1 7,554	
WSLS-TV D34 DT BL 8.0 0	8.0 0	8.0 0	
WJAC-TV D35 DT BL 153.1 4,604	137.0 4,228	137.0 4,228	
WTAP-TV D35 DT BL 4.0 0	4.0 0	4.0 0	

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Interference to DTVBL71676 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNPB-TV	D34	DT	BL	MORGANTOWN, WV	DTVBL71676	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	384.1 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	384.1
	WFMJ-TV	D33	DT	CP	YOUNGSTOWN, OH	BLANK0000024782	170.9
	WRC-TV	D34	DT	BL	WASHINGTON, DC	DTVBL47904	245.3
	WKBW-TV	D34	DT	BL	BUFFALO, NY	DTVBL54176	340.6
	WSLS-TV	D34	DT	BL	ROANOKE, VA	DTVBL57840	279.3
	WJAC-TV	D35	DT	BL	JOHNSTOWN, PA	DTVBL73120	100.2
	WTAP-TV	D35	DT	BL	PARKERSBURG, WV	DTVBL4685	159.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
23447.4 1,578,663	20964.5 1,441,860	20667.5 1,428,228	20667.5 1,428,228	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL 4.0 146	4.0 146	4.0 146	
WKEF D34 DT APP 4.0 146		4.0 146	

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WRC-TV D34 DT BL	115.9	1,542	103.8	1,328	103.8	1,328
WKBW-TV D34 DT BL	28.1	7,716	24.1	7,554	24.1	7,554
WSLS-TV D34 DT BL	8.0	0	8.0	0	8.0	0
WJAC-TV D35 DT BL	153.1	4,604	137.0	4,228	137.0	4,228
WTAP-TV D35 DT BL	4.0	0	4.0	0	4.0	0

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Interference to DTVBL71676 BL, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNPB-TV	D34	DT	BL	MORGANTOWN, WV	DTVBL71676	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	384.1 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	384.1
	WFMJ-TV	D33	DT	BL	YOUNGSTOWN, OH	DTVBL72062	170.9
	WRC-TV	D34	DT	BL	WASHINGTON, DC	DTVBL47904	245.3
	WKBW-TV	D34	DT	BL	BUFFALO, NY	DTVBL54176	340.6
	WSLS-TV	D34	DT	BL	ROANOKE, VA	DTVBL57840	279.3
	WJAC-TV	D35	DT	BL	JOHNSTOWN, PA	DTVBL73120	100.2
	WTAP-TV	D35	DT	BL	PARKERSBURG, WV	DTVBL4685	159.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
23447.4 1,578,663		20964.5 1,441,860		20667.5 1,428,228		20667.5 1,428,228	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	4.0 146	4.0 146	
WKEF D34 DT APP	4.0 146		4.0 146
WRC-TV D34 DT BL	115.9 1,542	103.8 1,328	103.8 1,328
WKBW-TV D34 DT BL	28.1 7,716	24.1 7,554	24.1 7,554
WSLS-TV D34 DT BL	8.0 0	8.0 0	8.0 0
WJAC-TV D35 DT BL	153.1 4,604	137.0 4,228	137.0 4,228
WTAP-TV D35 DT BL	4.0 0	4.0 0	4.0 0

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Interference to DTVBL71676 BL, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNPB-TV	D34	DT	BL	MORGANTOWN, WV	DTVBL71676	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	384.1 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	384.1
	WFMJ-TV	D33	DT	BL	YOUNGSTOWN, OH	DTVBL72062	170.9
	WRC-TV	D34	DT	BL	WASHINGTON, DC	DTVBL47904	245.3
	WKBW-TV	D34	DT	BL	BUFFALO, NY	DTVBL54176	340.6
	WSLS-TV	D34	DT	BL	ROANOKE, VA	DTVBL57840	279.3
	WJAC-TV	D35	DT	BL	JOHNSTOWN, PA	DTVBL73120	100.2
	WTAP-TV	D35	DT	BL	PARKERSBURG, WV	DTVBL4685	159.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
23447.4 1,578,663		20964.5 1,441,860		20667.5 1,428,228		20667.5 1,428,228	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	4.0 146	4.0 146	
WKEF D34 DT APP	4.0 146		4.0 146
WRC-TV D34 DT BL	115.9 1,542	103.8 1,328	103.8 1,328
WKBW-TV D34 DT BL	28.1 7,716	24.1 7,554	24.1 7,554
WSLS-TV D34 DT BL	8.0 0	8.0 0	8.0 0
WJAC-TV D35 DT BL	153.1 4,604	137.0 4,228	137.0 4,228
WTAP-TV D35 DT BL	4.0 0	4.0 0	4.0 0

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Interference to DTVBL34207 BL, scenario 1  
Proposal causes no interference.

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Interference to DTVBL34207 BL, scenario 2  
Proposal causes no interference.

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Interference to DTVBL25067 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPTD	D35	DT	BL	DAYTON, OH	DTVBL25067	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	0.6 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	0.6
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	172.7
	WGBO-DT	D35	DT	APP	JOLIET, IL	BLANK0000025108	372.9
	WTWO	D35	DT	BL	TERRE HAUTE, IN	DTVBL20426	274.7
	WKLE	D35	DT	BL	LEXINGTON, KY	DTVBL34207	204.8
	WOLP-CD	D35	DC	BL	GRAND RAPIDS, MI	DTVBL167892	346.1
	WVIZ	D35	DT	BL	CLEVELAND, OH	DTVBL18753	284.6
	WTAP-TV	D35	DT	BL	PARKERSBURG, WV	DTVBL4685	233.8
	WBXI-CD	D36	DC	APP	INDIANAPOLIS, IN	BLANK0000025132	163.1
	WRGT-TV	D36	DT	BL	DAYTON, OH	DTVBL411	0.6
	CIII-DT-29D35	DT	LIC		SARNIAOIL SPRINGS, ON	BLANKCANADA217	376.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
25491.2 3,423,417	25327.5 3,411,581	24963.6 3,385,026	24963.5 3,384,939	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	72.0 9,153	43.8 5,578	
WKEF D34 DT APP	72.1 9,240		43.9 5,665
WTWO D35 DT BL	148.1 10,114	127.9 8,764	127.9 8,764
WKLE D35 DT BL	12.0 1,023	4.0 211	4.0 211
WVIZ D35 DT BL	40.1 523	8.0 104	8.0 104
WTAP-TV D35 DT BL	147.9 7,655	107.9 6,597	107.9 6,597
WRGT-TV D36 DT BL	20.1 3,462	0.0 0	0.0 0

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Interference to DTVBL25067 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPTD	D35	DT	BL	DAYTON, OH	DTVBL25067	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	0.6 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	0.6
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	172.7
	WGBO-DT	D35	DT	APP	JOLIET, IL	BLANK0000025108	372.9
	WTWO	D35	DT	BL	TERRE HAUTE, IN	DTVBL20426	274.7
	WKLE	D35	DT	BL	LEXINGTON, KY	DTVBL34207	204.8
	WOLP-CD	D35	DC	BL	GRAND RAPIDS, MI	DTVBL167892	346.1
	WVIZ	D35	DT	BL	CLEVELAND, OH	DTVBL18753	284.6
	WTAP-TV	D35	DT	BL	PARKERSBURG, WV	DTVBL4685	233.8
	WBXI-CD	D36	DC	BL	INDIANAPOLIS, IN	DTVBL70416	163.1
	WRGT-TV	D36	DT	BL	DAYTON, OH	DTVBL411	0.6
	CIII-DT-29D35	DT	LIC		SARNIAOIL SPRINGS, ON	BLANKCANADA217	376.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
25491.2 3,423,417	25327.5 3,411,581	24963.6 3,385,026	24963.5 3,384,939	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WKEF D34 DT BL	72.0 9,153	43.8 5,578	
WKEF D34 DT APP	72.1 9,240		43.9 5,665
WTWO D35 DT BL	148.1 10,114	127.9 8,764	127.9 8,764
WKLE D35 DT BL	12.0 1,023	4.0 211	4.0 211
WVIZ D35 DT BL	40.1 523	8.0 104	8.0 104
WTAP-TV D35 DT BL	147.9 7,655	107.9 6,597	107.9 6,597
WRGT-TV D36 DT BL	20.1 3,462	0.0 0	0.0 0

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Interference to DTVBL25067 BL, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPTD	D35	DT	BL	DAYTON, OH	DTVBL25067	

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Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	0.6 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	0.6
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	172.7
	WGBO-DT	D35	DT	BL	JOLIET, IL	DTVBL12498	372.9
	WTWO	D35	DT	BL	TERRE HAUTE, IN	DTVBL20426	274.7
	WKLE	D35	DT	BL	LEXINGTON, KY	DTVBL34207	204.8
	WOLP-CD	D35	DC	BL	GRAND RAPIDS, MI	DTVBL167892	346.1
	WVIZ	D35	DT	BL	CLEVELAND, OH	DTVBL18753	284.6
	WTAP-TV	D35	DT	BL	PARKERSBURG, WV	DTVBL4685	233.8
	WBXI-CD	D36	DC	APP	INDIANAPOLIS, IN	BLANK0000025132	163.1
	WRGT-TV	D36	DT	BL	DAYTON, OH	DTVBL411	0.6
	CIII-DT-29D35	DT	LIC		SARNIAOIL SPRINGS, ON	BLANKCANADA217	376.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent	New IX
25491.2	3,423,417	25327.5	3,411,581	24963.6	3,385,026	24963.5	3,384,939	0.00	0.00
Undesired				Total IX		Unique IX, before		Unique IX, after	
WKEF D34 DT BL		72.0	9,153	43.8		5,578			
WKEF D34 DT APP		72.1	9,240			43.9		5,665	
WTWO D35 DT BL		148.1	10,114	127.9		8,764		127.9	
WKLE D35 DT BL		12.0	1,023	4.0		211		4.0	
WVIZ D35 DT BL		40.1	523	8.0		104		8.0	
WTAP-TV D35 DT BL		147.9	7,655	107.9		6,597		107.9	
WRGT-TV D36 DT BL		20.1	3,462	0.0		0		0.0	

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Interference to DTVBL25067 BL, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPTD	D35	DT	BL	DAYTON, OH	DTVBL25067	
Undesireds:	WKEF	D34	DT	BL	DAYTON, OH	DTVBL73155	0.6 km
	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	0.6
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	172.7
	WGBO-DT	D35	DT	BL	JOLIET, IL	DTVBL12498	372.9
	WTWO	D35	DT	BL	TERRE HAUTE, IN	DTVBL20426	274.7
	WKLE	D35	DT	BL	LEXINGTON, KY	DTVBL34207	204.8
	WOLP-CD	D35	DC	BL	GRAND RAPIDS, MI	DTVBL167892	346.1
	WVIZ	D35	DT	BL	CLEVELAND, OH	DTVBL18753	284.6
	WTAP-TV	D35	DT	BL	PARKERSBURG, WV	DTVBL4685	233.8
	WBXI-CD	D36	DC	BL	INDIANAPOLIS, IN	DTVBL70416	163.1
	WRGT-TV	D36	DT	BL	DAYTON, OH	DTVBL411	0.6
	CIII-DT-29D35	DT	LIC		SARNIAOIL SPRINGS, ON	BLANKCANADA217	376.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent	New IX
25491.2	3,423,417	25327.5	3,411,581	24963.6	3,385,026	24963.5	3,384,939	0.00	0.00
Undesired				Total IX		Unique IX, before		Unique IX, after	
WKEF D34 DT BL		72.0	9,153	43.8		5,578			
WKEF D34 DT APP		72.1	9,240			43.9		5,665	
WTWO D35 DT BL		148.1	10,114	127.9		8,764		127.9	
WKLE D35 DT BL		12.0	1,023	4.0		211		4.0	
WVIZ D35 DT BL		40.1	523	8.0		104		8.0	
WTAP-TV D35 DT BL		147.9	7,655	107.9		6,597		107.9	
WRGT-TV D36 DT BL		20.1	3,462	0.0		0		0.0	

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Interference to DTVBL4685 BL, scenario 1  
Proposal causes no interference.

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Interference to DTVBL4685 BL, scenario 2  
Proposal causes no interference.

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Interference to proposal, scenario 1  
3.95% interference



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**WKEF - Dayton, Ohio**  
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	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	
Undesireds:	WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	1.2 km
	WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	360.1
	WCPX-TV	D34	DT	BL	CHICAGO, IL	DTVBL10981	371.8
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	172.2
	WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	203.2
	WKBD-TV	D34	DT	BL	DETROIT, MI	DTVBL51570	316.7
	WNPB-TV	D34	DT	BL	MORGANTOWN, WV	DTVBL71676	384.1
	WPTD	D35	DT	BL	DAYTON, OH	DTVBL25067	0.6

Service area	Terrain-limited	IX-free	Percent IX
29634.9 3,624,170	29399.0 3,616,838	26572.2 3,473,875	9.62 3.95

Undesired	Total IX	Unique IX	Prcnt Unique IX
WHIO-TV D33 DT BL	47.9 28,971	39.9 18,247	0.14 0.50
WCPX-TV D34 DT BL	4.0 77	0.0 0	0.00 0.00
WISE-TV D34 DT BL	2755.0 112,681	2650.9 110,434	9.02 3.05
WKMJ-TV D34 DT BL	31.9 1,876	15.9 968	0.05 0.03
WKBD-TV D34 DT BL	92.2 1,650	12.0 356	0.04 0.01
WPTD D35 DT BL	12.0 10,954	0.0 0	0.00 0.00

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Interference to proposal, scenario 2  
3.95% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKEF	D34	DT	APP	DAYTON, OH	WKEF_34_351_747K_ANT	
Undesireds:	WHIO-TV	D33	DT	BL	DAYTON, OH	DTVBL41458	1.2 km
	WCIA	D34	DT	BL	CHAMPAIGN, IL	DTVBL42124	360.1
	WCPX-TV	D34	DT	BL	CHICAGO, IL	DTVBL10981	371.8
	WISE-TV	D34	DT	BL	FORT WAYNE, IN	DTVBL13960	172.2
	WKMJ-TV	D34	DT	BL	LOUISVILLE, KY	DTVBL34195	203.2
	WKBD-TV	D34	DT	BL	DETROIT, MI	DTVBL51570	316.7
	WNPB-TV	D34	DT	BL	MORGANTOWN, WV	DTVBL71676	384.1
	WPTD	D35	DT	BL	DAYTON, OH	DTVBL25067	0.6

Service area	Terrain-limited	IX-free	Percent IX
29634.9 3,624,170	29399.0 3,616,838	26572.2 3,473,875	9.62 3.95

Undesired	Total IX	Unique IX	Prcnt Unique IX
WHIO-TV D33 DT BL	47.9 28,971	39.9 18,247	0.14 0.50
WCPX-TV D34 DT BL	4.0 77	0.0 0	0.00 0.00
WISE-TV D34 DT BL	2755.0 112,681	2650.9 110,434	9.02 3.05
WKMJ-TV D34 DT BL	31.9 1,876	15.9 968	0.05 0.03
WKBD-TV D34 DT BL	92.2 1,650	12.0 356	0.04 0.01
WPTD D35 DT BL	12.0 10,954	0.0 0	0.00 0.00