



**STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION FOR
POST REPACK CONSTRUCTION PERMIT
WOSU-TV - COLUMBUS, OHIO
DTV - CH. 16 - 311 kW - 329 m HAAT**

Prepared for: THE OHIO STATE UNIVERSITY

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 THE OHIO STATE UNIVERSITY, licensee of WOSU-TV, channel 38, facility ID number 66185, licensed to Columbus, Ohio, to prepare this statement, FCC Form 2100, Schedule A, its technical sections, and the associated exhibits in support of an application for construction permit, in accordance with the Incentive Auction Closing and Channel Reassignment Public Notice, DA 17-314, and the technical information provided in the confidential reassignment letter from the FCC announcing the substitution for DTV channel 38 with new DTV channel 16 to be used by WOSU-TV for its post-reassignment broadcasting.

OMNI-DIRECTIONAL ANTENNA

The applicant proposes to install a new ERI model ATW15H3-HTO-16H horizontally polarized omni-directional transmitting antenna with its center of radiation located at a height above ground of 330.8 meters, and a height above average terrain of 329 meters. The antenna 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 2.

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 (38.94 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Columbus, Ohio.

ALLOCATION CONSIDERATIONS

Post-Transition DTV Considerations

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

International DTV Considerations

The WOSU-TV site is located 169.9 kilometers from the nearest point on the US-Canadian border and more than 2,000 kilometers from the nearest point on the US-Mexican border. The study includes Canadian facilities within the coordination distance, however, none is predicted to be affected by the WOSU-TV 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 WOSU-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 by 1.5, and is similarly determined for a "controlled" environment by dividing the operating

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frequency in MHZ by 0.3.

The predicted emissions of WOSU-TV must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WOSU-TV, which will operate on television Channel 16 (482-488 MHZ), the MPE is 323.33 microwatts per centimeter squared ($\mu\text{W}/\text{cm}^2$) in an "uncontrolled" environment and 1,616.7 $\mu\text{W}/\text{cm}^2$ in a "controlled" environment. The proposed WOSU-TV facility will operate with a maximum ERP of 311 kW from a horizontally polarized omni-directional transmitting antenna with a centerline height of 330.8 meters above ground level (AGL). Considering a conservative predicted vertical plane relative field factor of 0.300 the WOSU-TV facility is predicted to produce a power density at two meters above ground level of 8.65 $\mu\text{W}/\text{cm}^2$, which is 2.68% of the FCC guideline value for an "uncontrolled" environment, and 0.536% of the FCC's guideline value for "controlled" environments. There are no other broadcast facilities located at the WOSU-TV site. Therefore the total estimated percentage of the ANSI value at the proposed site is only that contributed by WOSU-TV: 2.68% of the limit applicable to "uncontrolled" environments, and 0.536% of the limit for "controlled" environments. (See Appendix A)

OCCUPATIONAL SAFETY

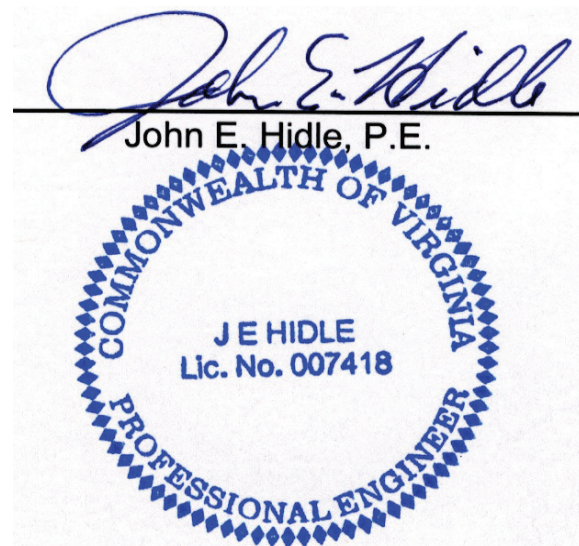
The licensee of WOSU-TV is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WOSU-TV antenna, and is committed to reducing power or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure protection to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

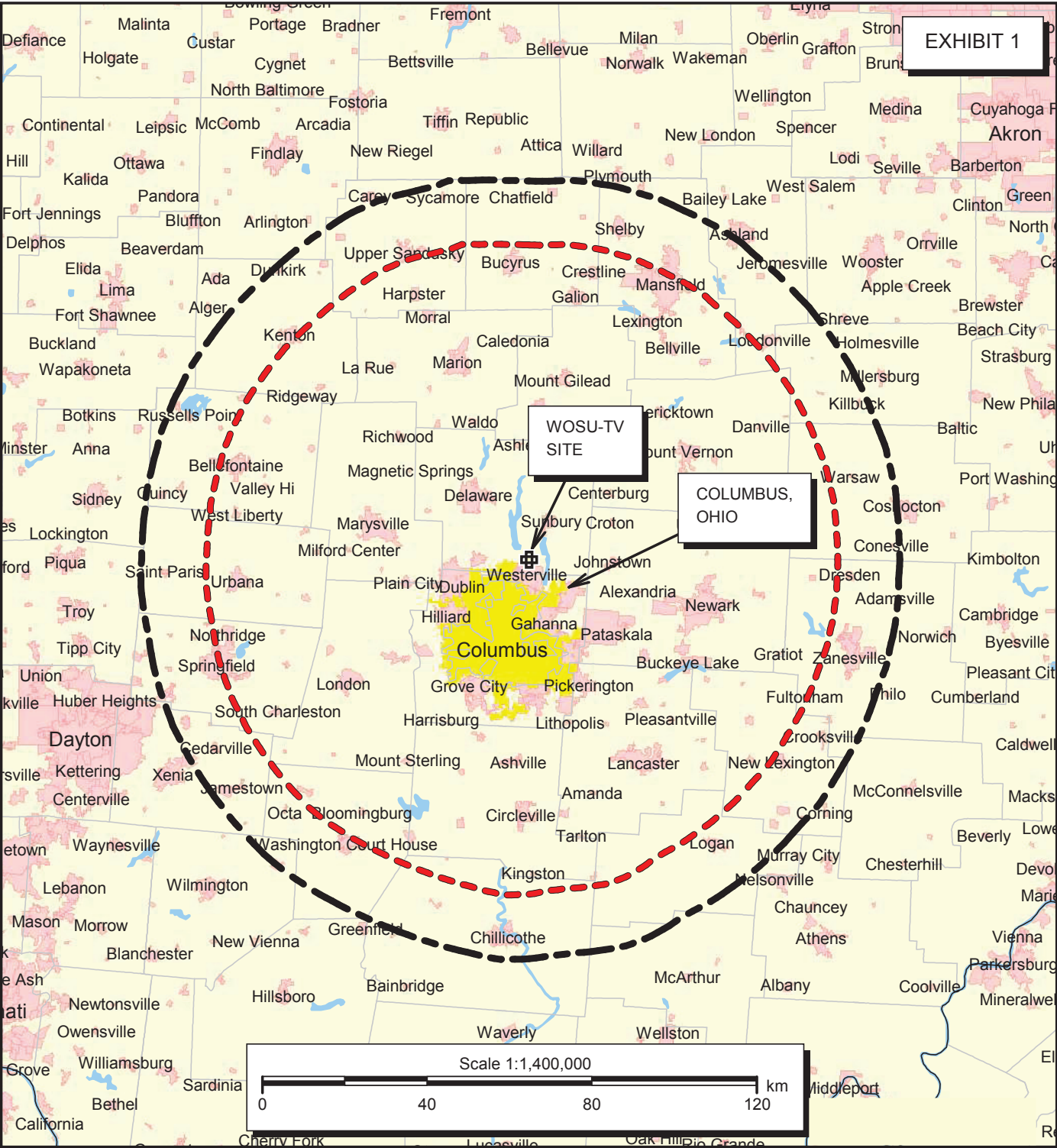
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SUMMARY

It is submitted that the instant application for construction permit to change WOSU-TV from channel 38 to channel 16, 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: June 13, 2017





PREDICTED COVERAGE CONTOURS

WOSU-TV - COLUMBUS, OHIO
DTV Channel 16 - 311 kW ERP - 329 M HAAT
JUNE, 2017

Predicted Noise Limited 38.94 dBu
F(50,90) Coverage Contour

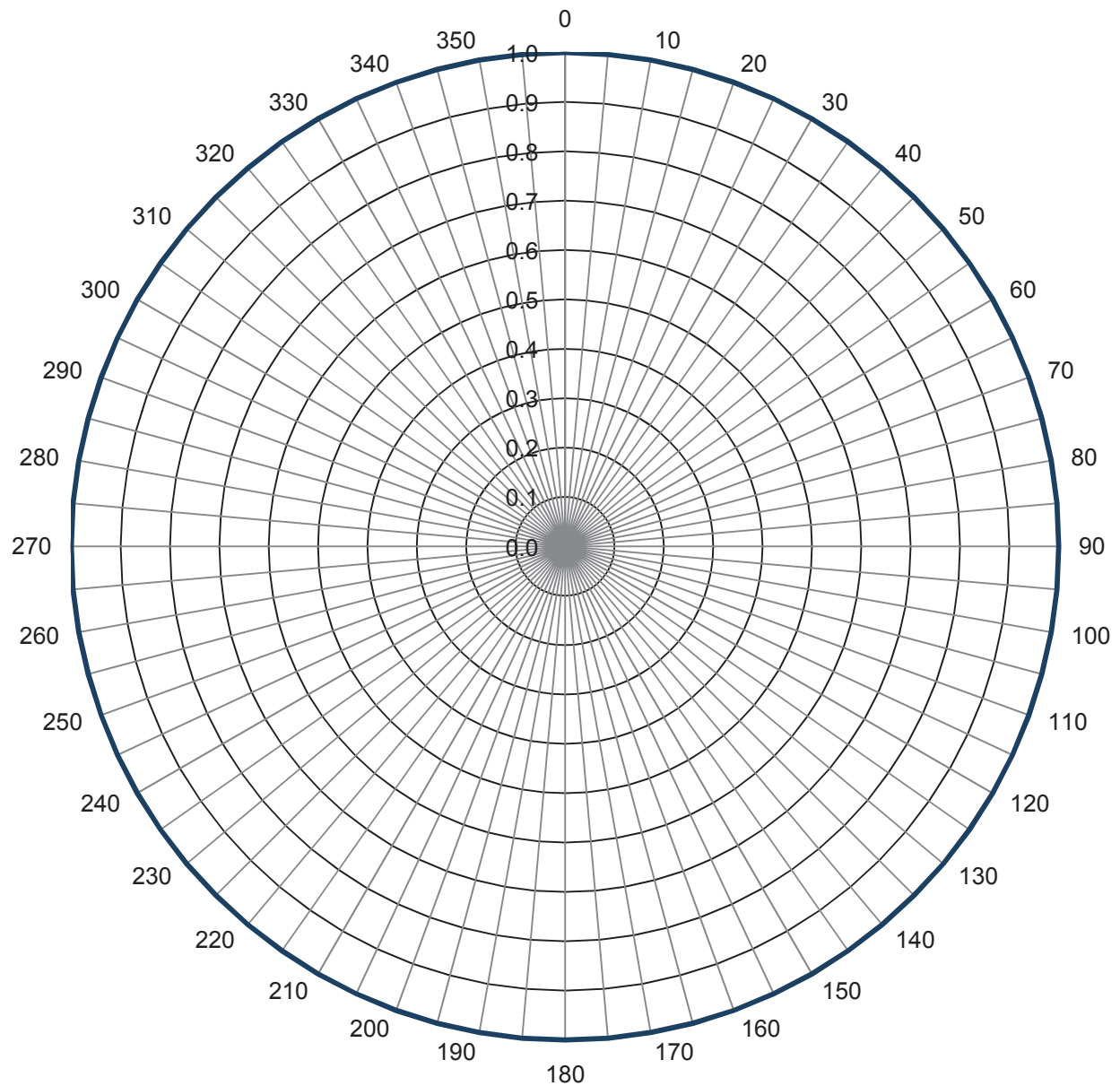


Predicted Principal Community 48 dBu
F(50,90) Coverage Contour

Azimuth Pattern

Type:	ATW-O	Polarization:	Horizontal
Directivity:	1.00 numeric (0.00 dB)	Frequency:	16 (ATSC)
Peak(s) at:		Location:	Columbus, OH
		NOTE: Pattern shape and directivity may vary with channel and mounting configuration.	

Relative Field



Tabulated Data for Azimuth Pattern

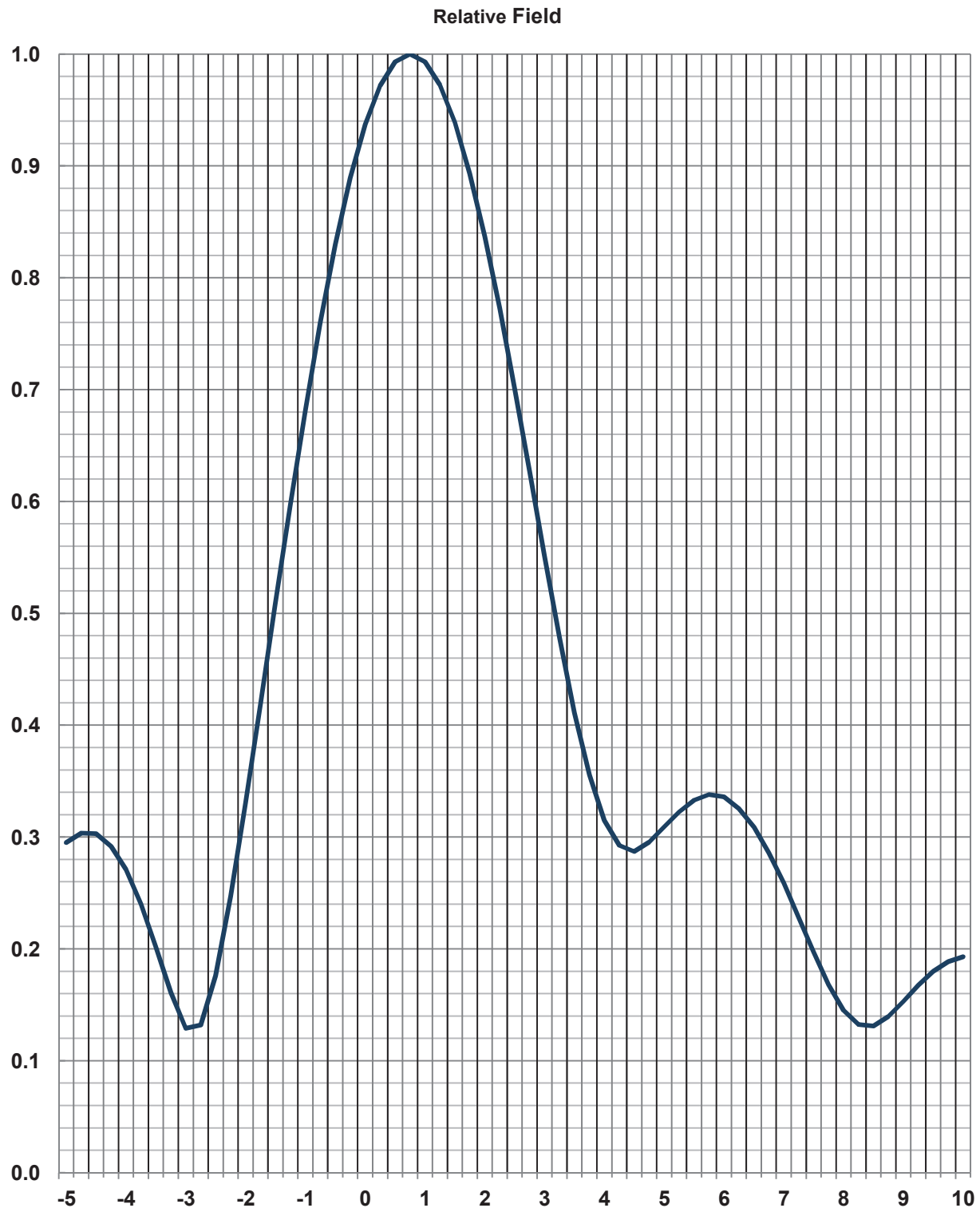
Type:

ATW-O

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
0	1.000	0.00	100	1.000	0.00	200	1.000	0.00	300	1.000	0.00
2	1.000	0.00	102	1.000	0.00	202	1.000	0.00	302	1.000	0.00
4	1.000	0.00	104	1.000	0.00	204	1.000	0.00	304	1.000	0.00
6	1.000	0.00	106	1.000	0.00	206	1.000	0.00	306	1.000	0.00
8	1.000	0.00	108	1.000	0.00	208	1.000	0.00	308	1.000	0.00
10	1.000	0.00	110	1.000	0.00	210	1.000	0.00	310	1.000	0.00
12	1.000	0.00	112	1.000	0.00	212	1.000	0.00	312	1.000	0.00
14	1.000	0.00	114	1.000	0.00	214	1.000	0.00	314	1.000	0.00
16	1.000	0.00	116	1.000	0.00	216	1.000	0.00	316	1.000	0.00
18	1.000	0.00	118	1.000	0.00	218	1.000	0.00	318	1.000	0.00
20	1.000	0.00	120	1.000	0.00	220	1.000	0.00	320	1.000	0.00
22	1.000	0.00	122	1.000	0.00	222	1.000	0.00	322	1.000	0.00
24	1.000	0.00	124	1.000	0.00	224	1.000	0.00	324	1.000	0.00
26	1.000	0.00	126	1.000	0.00	226	1.000	0.00	326	1.000	0.00
28	1.000	0.00	128	1.000	0.00	228	1.000	0.00	328	1.000	0.00
30	1.000	0.00	130	1.000	0.00	230	1.000	0.00	330	1.000	0.00
32	1.000	0.00	132	1.000	0.00	232	1.000	0.00	332	1.000	0.00
34	1.000	0.00	134	1.000	0.00	234	1.000	0.00	334	1.000	0.00
36	1.000	0.00	136	1.000	0.00	236	1.000	0.00	336	1.000	0.00
38	1.000	0.00	138	1.000	0.00	238	1.000	0.00	338	1.000	0.00
40	1.000	0.00	140	1.000	0.00	240	1.000	0.00	340	1.000	0.00
42	1.000	0.00	142	1.000	0.00	242	1.000	0.00	342	1.000	0.00
44	1.000	0.00	144	1.000	0.00	244	1.000	0.00	344	1.000	0.00
46	1.000	0.00	146	1.000	0.00	246	1.000	0.00	346	1.000	0.00
48	1.000	0.00	148	1.000	0.00	248	1.000	0.00	348	1.000	0.00
50	1.000	0.00	150	1.000	0.00	250	1.000	0.00	350	1.000	0.00
52	1.000	0.00	152	1.000	0.00	252	1.000	0.00	352	1.000	0.00
54	1.000	0.00	154	1.000	0.00	254	1.000	0.00	354	1.000	0.00
56	1.000	0.00	156	1.000	0.00	256	1.000	0.00	356	1.000	0.00
58	1.000	0.00	158	1.000	0.00	258	1.000	0.00	358	1.000	0.00
60	1.000	0.00	160	1.000	0.00	260	1.000	0.00	360	1.000	0.00
62	1.000	0.00	162	1.000	0.00	262	1.000	0.00			
64	1.000	0.00	164	1.000	0.00	264	1.000	0.00			
66	1.000	0.00	166	1.000	0.00	266	1.000	0.00			
68	1.000	0.00	168	1.000	0.00	268	1.000	0.00			
70	1.000	0.00	170	1.000	0.00	270	1.000	0.00			
72	1.000	0.00	172	1.000	0.00	272	1.000	0.00			
74	1.000	0.00	174	1.000	0.00	274	1.000	0.00			
76	1.000	0.00	176	1.000	0.00	276	1.000	0.00			
78	1.000	0.00	178	1.000	0.00	278	1.000	0.00			
80	1.000	0.00	180	1.000	0.00	280	1.000	0.00			
82	1.000	0.00	182	1.000	0.00	282	1.000	0.00			
84	1.000	0.00	184	1.000	0.00	284	1.000	0.00			
86	1.000	0.00	186	1.000	0.00	286	1.000	0.00			
88	1.000	0.00	188	1.000	0.00	288	1.000	0.00			
90	1.000	0.00	190	1.000	0.00	290	1.000	0.00			
92	1.000	0.00	192	1.000	0.00	292	1.000	0.00			
94	1.000	0.00	194	1.000	0.00	294	1.000	0.00			
96	1.000	0.00	196	1.000	0.00	296	1.000	0.00			
98	1.000	0.00	198	1.000	0.00	298	1.000	0.00			

Elevation Pattern

Type:	15H3H	Polarization:	Horizontal
Directivity:		Frequency:	16 (ATSC)
Main Lobe:	15.00 numeric (11.76 dB)	Location:	Columbus, OH
Horizontal:	13.17 numeric (11.20 dB)	Beam Tilt:	0.75 degrees



Tabulated Data for Elevation Pattern

Type: 15H3H

-5 to 10 degrees in 0.25 degree increments.

10 to 90 degrees in 0.50 degree increments.

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-5.00	0.295	-10.60	7.25	0.228	-12.84	29.00	0.037	-28.64	53.50	0.058	-24.73	78.00	0.043	-27.33
-4.75	0.304	-10.36	7.50	0.197	-14.11	29.50	0.044	-27.13	54.00	0.048	-26.38	78.50	0.047	-26.56
-4.50	0.303	-10.37	7.75	0.168	-15.49	30.00	0.057	-24.88	54.50	0.037	-28.64	79.00	0.050	-26.02
-4.25	0.292	-10.71	8.00	0.145	-16.77	30.50	0.068	-23.35	55.00	0.028	-31.06	79.50	0.053	-25.51
-4.00	0.271	-11.34	8.25	0.133	-17.56	31.00	0.074	-22.62	55.50	0.026	-31.70	80.00	0.055	-25.19
-3.75	0.240	-12.40	8.50	0.131	-17.65	31.50	0.073	-22.73	56.00	0.032	-29.90	80.50	0.057	-24.88
-3.50	0.202	-13.89	8.75	0.140	-17.11	32.00	0.065	-23.74	56.50	0.042	-27.54	81.00	0.057	-24.88
-3.25	0.161	-15.86	9.00	0.153	-16.31	32.50	0.053	-25.51	57.00	0.053	-25.51	81.50	0.057	-24.88
-3.00	0.129	-17.79	9.25	0.168	-15.52	33.00	0.039	-28.18	57.50	0.063	-24.01	82.00	0.057	-24.88
-2.75	0.132	-17.59	9.50	0.180	-14.89	33.50	0.033	-29.63	58.00	0.070	-23.10	82.50	0.056	-25.04
-2.50	0.176	-15.09	9.75	0.189	-14.49	34.00	0.039	-28.18	58.50	0.075	-22.50	83.00	0.054	-25.35
-2.25	0.247	-12.15	10.00	0.193	-14.29	34.50	0.051	-25.85	59.00	0.077	-22.27	83.50	0.052	-25.68
-2.00	0.330	-9.63	10.50	0.185	-14.66	35.00	0.062	-24.15	59.50	0.077	-22.27	84.00	0.050	-26.02
-1.75	0.419	-7.56	11.00	0.159	-15.97	35.50	0.069	-23.22	60.00	0.073	-22.73	84.50	0.047	-26.56
-1.50	0.509	-5.87	11.50	0.123	-18.20	36.00	0.070	-23.10	60.50	0.067	-23.48	85.00	0.044	-27.13
-1.25	0.598	-4.47	12.00	0.091	-20.82	36.50	0.065	-23.74	61.00	0.058	-24.73	85.50	0.040	-27.96
-1.00	0.682	-3.32	12.50	0.084	-21.51	37.00	0.055	-25.19	61.50	0.048	-26.38	86.00	0.036	-28.87
-0.75	0.760	-2.38	13.00	0.103	-19.74	37.50	0.043	-27.33	62.00	0.037	-28.64	86.50	0.032	-29.90
-0.50	0.830	-1.62	13.50	0.125	-18.06	38.00	0.033	-29.63	62.50	0.027	-31.37	87.00	0.028	-31.06
-0.25	0.889	-1.02	14.00	0.136	-17.33	38.50	0.031	-30.17	63.00	0.021	-33.56	87.50	0.024	-32.40
0.00	0.937	-0.57	14.50	0.133	-17.52	39.00	0.040	-27.96	63.50	0.023	-32.77	88.00	0.019	-34.42
0.25	0.972	-0.25	15.00	0.117	-18.64	39.50	0.052	-25.68	64.00	0.032	-29.90	88.50	0.014	-37.08
0.50	0.993	-0.06	15.50	0.091	-20.82	40.00	0.062	-24.15	64.50	0.043	-27.33	89.00	0.010	-40.00
0.75	1.000	0.00	16.00	0.068	-23.35	40.50	0.067	-23.48	65.00	0.054	-25.35	89.50	0.005	-46.02
1.00	0.993	-0.06	16.50	0.062	-24.15	41.00	0.068	-23.35	65.50	0.064	-23.88	90.00	0.000	---
1.25	0.973	-0.24	17.00	0.077	-22.27	41.50	0.063	-24.01	66.00	0.073	-22.73			
1.50	0.939	-0.55	17.50	0.096	-20.35	42.00	0.055	-25.19	66.50	0.080	-21.94			
1.75	0.893	-0.98	18.00	0.107	-19.41	42.50	0.043	-27.33	67.00	0.086	-21.31			
2.00	0.837	-1.55	18.50	0.107	-19.41	43.00	0.033	-29.63	67.50	0.089	-21.01			
2.25	0.773	-2.24	19.00	0.096	-20.35	43.50	0.029	-30.75	68.00	0.091	-20.82			
2.50	0.701	-3.09	19.50	0.077	-22.27	44.00	0.035	-29.12	68.50	0.091	-20.82			
2.75	0.627	-4.06	20.00	0.057	-24.88	44.50	0.046	-26.74	69.00	0.089	-21.01			
3.00	0.551	-5.18	20.50	0.049	-26.20	45.00	0.057	-24.88	69.50	0.086	-21.31			
3.25	0.478	-6.41	21.00	0.060	-24.44	45.50	0.064	-23.88	70.00	0.081	-21.83			
3.50	0.411	-7.72	21.50	0.076	-22.38	46.00	0.068	-23.35	70.50	0.075	-22.50			
3.75	0.356	-8.98	22.00	0.088	-21.11	46.50	0.067	-23.48	71.00	0.068	-23.35			
4.00	0.315	-10.03	22.50	0.091	-20.82	47.00	0.062	-24.15	71.50	0.060	-24.44			
4.25	0.293	-10.68	23.00	0.085	-21.41	47.50	0.054	-25.35	72.00	0.052	-25.68			
4.50	0.287	-10.84	23.50	0.071	-22.97	48.00	0.043	-27.33	72.50	0.043	-27.33			
4.75	0.296	-10.59	24.00	0.054	-25.35	48.50	0.033	-29.63	73.00	0.034	-29.37			
5.00	0.309	-10.20	24.50	0.042	-27.54	49.00	0.027	-31.37	73.50	0.024	-32.40			
5.25	0.323	-9.83	25.00	0.046	-26.74	49.50	0.031	-30.17	74.00	0.015	-36.48			
5.50	0.333	-9.55	25.50	0.060	-24.44	50.00	0.041	-27.74	74.50	0.007	-43.10			
5.75	0.338	-9.42	26.00	0.073	-22.73	50.50	0.052	-25.68	75.00	0.005	-46.02			
6.00	0.336	-9.47	26.50	0.080	-21.94	51.00	0.062	-24.15	75.50	0.012	-38.42			
6.25	0.326	-9.75	27.00	0.080	-21.94	51.50	0.068	-23.35	76.00	0.019	-34.42			
6.50	0.309	-10.20	27.50	0.071	-22.97	52.00	0.071	-22.97	76.50	0.026	-31.70			
6.75	0.286	-10.87	28.00	0.058	-24.73	52.50	0.070	-23.10	77.00	0.032	-29.90			
7.00	0.259	-11.73	28.50	0.043	-27.33	53.00	0.066	-23.61	77.50	0.038	-28.40			

SUMMARY OF RADIOFREQUENCY

RADIATION STUDY

WOSU-TV, Columbus, OH

Channel 16, 311 kW, 329 m HAAT

June, 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>
WOSU-TV	DT	16	485	H	330.8	311.000	0.300	8.650	323.33	2.68%
TOTAL PERCENTAGE OF FCC GUIDELINE VALUE =										
										2.68%

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



WOSU-TV - COLUMBUS, OHIO Longley-Rice Interference Analysis

tvstudy v2.2.2

Database: localhost, Study: WOSU_16_329H_311K, Model: Longley-Rice
Start: 2017.06.12 14:32:00

Study created: 2017.06.12 14:31:51

Study build station data: LMS TV 2017-06-07 (14)

Proposal: WOSU-TV D16 DT APP COLUMBUS, OH
File number: WOSU_16_329H_311K
Facility ID: 66185
Station data: User record
Record ID: 589
Country: U.S.
Zone: I

Non-U.S. records included

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WXIX-TV	D15	DT	BL	NEWPORT, KY	DTVBL39738	180.6 km
WEWS-TV	D15	DT	LIC	CLEVELAND, OH	BLCDT20091211ACS	168.9
WOHL-CD	D15	DC	BL	LIMA, OH	DTVBL68549	121.4
WQCW	D15	DT	BL	PORTSMOUTH, OH	DTVBL65130	193.7
WFWC-CD	D16	DC	BL	FORT WAYNE, IN	DTVBL67485	214.6
WDNI-CD	D16	DC	BL	INDIANAPOLIS, IN	DTVBL28199	271.6
WMYO	D16	DT	BL	SALEM, IN	DTVBL34167	322.2
WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	301.8
WSMH	D16	DT	LIC	FLINT, MI	BLCDT20090804ABG	354.0
WINP-TV	D16	DT	BL	PITTSBURGH, PA	DTVBL41314	252.8
WAPK-CD	D16	DC	BL	BRISTOL VA/KINGSPORT, TN	DTVBL77677	419.9
WBNX-TV	D17	DT	BL	AKRON, OH	DTVBL72958	170.9
WCET	D17	DT	BL	CINCINNATI, OH	DTVBL65666	178.7
CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	223.9
CITY-DT-2	D16	DT	LIC	WOODSTOCK, ON	BLANKCANADA246	367.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D16
Latitude: 40 9 33.00 N (NAD83)
Longitude: 82 55 23.00 W
Height AMSL: 611.5 m
HAAT: 329.0 m
Peak ERP: 311 kW
Antenna: Omnidirectional

38.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	311 kW	315.0 m	92.3 km

Appendix B - Interference Analysis
WOSU-TV - Columbus, Ohio
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45.0	311	308.4	91.5
90.0	311	294.6	89.6
135.0	311	313.0	92.0
180.0	311	360.5	96.6
225.0	311	348.6	95.6
270.0	311	333.0	94.2
315.0	311	330.8	94.0

Database HAAT does not agree with computed HAAT
 Database HAAT: 329 m Computed HAAT: 325 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: 169.9 km

Distance to Mexican border: 2027.8 km

Conditions at FCC monitoring station: Allegan MI
 Bearing: 318.1 degrees Distance: 371.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 277.2 degrees Distance: 1889.6 km

**Proposal fails distance check to land mobile station: Detroit MI ch. 16, 241.5 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%

 Interference to DTVBL39738 BL, scenario 1
 Proposal causes no interference.

 Interference to BLCDT20091211ACS LIC, scenario 1
 Proposal causes no interference.

 Interference to DTVBL68549 BL, scenario 1
 Proposal causes no interference.

 Interference to DTVBL65130 BL, scenario 1
 Proposal causes no interference.

 Interference to DTVBL67485 BL, scenario 1
 Proposal causes no interference.

 Interference to DTVBL28199 BL, scenario 1
 Proposal causes no interference.

 Interference to DTVBL34167 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMYO	D16	DT	BL	SALEM, IN	DTVBL34167	
Undesireds:	WOSU-TV	D16	DT	BL	COLUMBUS, OH	DTVBL66185	322.2 km
	WOSU-TV	D16	DT	APP	COLUMBUS, OH	WOSU_16_329H_311K	322.2
	WYYW-CD	D15	DC	LIC	EVANSVILLE, IN	BLDTA20130109AGB	130.5

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Channel 16 - 311 kW - Page 3

WTTK	D15	DT	BL	KOKOMO, IN	DTVBL56526	173.7
WLCU-CD	D15	DC	BL	CAMPBELLSVILLE, KY	DTVBL8500	119.8
WXIX-TV	D15	DT	BL	NEWPORT, KY	DTVBL39738	141.7
WPBM-CD	D15	DC	BL	SCOTTSVILLE, KY	DTVBL30580	169.8
WRSP-TV	D16	DT	BL	SPRINGFIELD, IL	DTVBL62009	349.7
WFWC-CD	D16	DC	BL	FORT WAYNE, IN	DTVBL67485	311.4
WDNI-CD	D16	DC	BL	INDIANAPOLIS, IN	DTVBL28199	162.4
WAPK-CD	D16	DC	BL	BRISTOL VA/KINGSPORT, TN	DTVBL77677	391.0
WHTN	D16	DT	BL	MURFREESBORO, TN	DTVBL11117	257.2
WALV-CD	D17	DC	BL	INDIANAPOLIS, IN	DTVBL70161	177.8
WKOH	D17	DT	BL	OWENSBORO, KY	DTVBL34205	140.8
WKSO-TV	D17	DT	BL	SOMERSET, KY	DTVBL34222	159.3
WCET	D17	DT	BL	CINCINNATI, OH	DTVBL65666	143.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
33460.7 1,983,916	32901.5 1,974,408	32379.9 1,949,656	32375.8 1,949,594	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WOSU-TV D16 DT BL	84.1 1,070	64.2 814	
WOSU-TV D16 DT APP	88.2 1,132		68.2 876
WYYW-CD D15 DC LIC	174.0 12,353	166.1 9,830	166.1 9,830
WLCU-CD D15 DC BL	35.9 412	27.9 338	27.9 338
WXIX-TV D15 DT BL	64.0 1,527	0.0 0	0.0 0
WRSP-TV D16 DT BL	28.1 384	24.1 359	24.1 359
WDNI-CD D16 DC BL	59.9 7,820	47.9 7,629	47.9 7,629
WHTN D16 DT BL	79.5 3,134	59.7 512	59.7 512
WCET D17 DT BL	108.0 2,645	40.0 1,017	40.0 1,017

Interference to DTVBL67001 BL, scenario 1
Proposal causes no interference.

Interference to BLCDT20090804ABG LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSMH	D16	DT	LIC	FLINT, MI	BLCDT20090804ABG	
Undesireds:	WOSU-TV	D16	DT	BL	COLUMBUS, OH	DTVBL66185	354.0 km
	WOSU-TV	D16	DT	APP	COLUMBUS, OH	WOSU_16_329H_311K	354.0
	WDCQ-TV	D15	DT	LIC	BAD AXE, MI	BLEDT20030922ABG	48.7
	W33BY-D	D15	DC	BL	DETROIT, MI	DTVBL25722	121.2
	WXSP-CD	D15	DC	LIC	GRAND RAPIDS, MI	BLDTA20100714AAG	137.0
	WFWC-CD	D16	DC	BL	FORT WAYNE, IN	DTVBL67485	252.2
	WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	136.9
	WTOM-TV	D16	DT	BL	CHEBOYGAN, MI	DTVBL21254	270.4
	WOTV	D17	DT	BL	BATTLE CREEK, MI	DTVBL10212	134.7
	CHII-DT-4	D16	DT	LIC	OWEN SOUND, ON	BLANKCANADA208	281.5
	CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	179.5
	CITY-DT-2	D16	DT	LIC	WOODSTOCK, ON	BLANKCANADA246	269.0
	CHWI-DT-60D17	D17	DT	LIC	WINDSOR, ON	BLANKCANADA243	131.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24428.4 2,339,224	24392.3 2,327,660	23101.9 2,255,055	23101.9 2,255,055	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WOSU-TV D16 DT BL	16.1 4,522	0.0 0	
WOSU-TV D16 DT APP	16.1 4,522		0.0 0
WDCQ-TV D15 DT LIC	1122.1 13,516	1122.1 13,516	1122.1 13,516
WOBC-CD D16 DC BL	4.0 100	4.0 100	4.0 100
WOTV D17 DT BL	8.0 143	8.0 143	8.0 143

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CIIT-DT-4 D16 DT LIC	8.0	226	0.0	0	0.0	0
CHWI-DT D16 DT LIC	152.3	58,752	136.3	54,192	136.3	54,192
CITY-DT-2 D16 DT LIC	8.0	4,430	0.0	0	0.0	0

Interference to DTVBL41314 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WINP-TV	D16	DT	BL	PITTSBURGH, PA	DTVBL41314	
Undesireds:	WOSU-TV	D16	DT	BL	COLUMBUS, OH	DTVBL66185	252.8 km
	WOSU-TV	D16	DT	APP	COLUMBUS, OH	WOSU_16_329H_311K	252.8
	WPSU-TV	D15	DD	LIC	CLEARFIELD, PA	BLDT20130614ACC	148.5
	WNYO-TV	D16	DT	BL	BUFFALO, NY	DTVBL67784	288.3
	W16AX-D	D16	DC	LIC	ITHACA, NY	BLANK0000001083	363.4
	WNEP-TV	D16	DT	BL	SCRANTON, PA	DTVBL73318	353.9
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	53.7
	CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	280.2
	CITY-DT-2	D16	DT	LIC	WOODSTOCK, ON	BLANKCANADA246	296.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
19933.9 2,807,854	19149.6 2,765,197	18925.5 2,743,090	18929.5 2,743,203	-0.02 -0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WOSU-TV D16 DT BL	152.4 19,583	152.4 19,583	
WOSU-TV D16 DT APP	148.5 19,470		148.5 19,470
WNYO-TV D16 DT BL	4.0 104	0.0 0	0.0 0
WNEP-TV D16 DT BL	4.0 104	0.0 0	0.0 0
WJMB-CD D17 DC LIC	67.6 2,420	67.6 2,420	67.6 2,420

Interference to DTVBL41314 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WINP-TV	D16	DT	BL	PITTSBURGH, PA	DTVBL41314	
Undesireds:	WOSU-TV	D16	DT	BL	COLUMBUS, OH	DTVBL66185	252.8 km
	WOSU-TV	D16	DT	APP	COLUMBUS, OH	WOSU_16_329H_311K	252.8
	WPSU-TV	D15	DD	LIC	CLEARFIELD, PA	BLDT20130614ACC	148.5
	WNYO-TV	D16	DT	BL	BUFFALO, NY	DTVBL67784	288.3
	W16AX-D	D16	DC	LIC	ITHACA, NY	BLANK0000001083	363.4
	WNEP-TV	D16	DT	BL	SCRANTON, PA	DTVBL73318	353.9
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	53.7
	CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	280.2
	CITY-DT-2	D16	DT	LIC	WOODSTOCK, ON	BLANKCANADA246	296.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
19933.9 2,807,854	19149.6 2,765,197	18925.5 2,743,090	18929.5 2,743,203	-0.02 -0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WOSU-TV D16 DT BL	152.4 19,583	152.4 19,583	
WOSU-TV D16 DT APP	148.5 19,470		148.5 19,470
WNYO-TV D16 DT BL	4.0 104	0.0 0	0.0 0
WNEP-TV D16 DT BL	4.0 104	0.0 0	0.0 0
WJMB-CD D17 DC LIC	67.6 2,420	67.6 2,420	67.6 2,420

Interference to DTVBL77677 BL, scenario 1

Proposal causes no interference.

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Interference to DTVBL77677 BL, scenario 2
 Proposal causes no interference.

Interference to DTVBL77677 BL, scenario 3
 Proposal causes no interference.

Interference to DTVBL77677 BL, scenario 4
 Proposal causes no interference.

Interference to DTVBL72958 BL, scenario 1
 Proposal causes no interference.

Interference to DTVBL65666 BL, scenario 1
 Proposal causes no interference.

Interference to BLANKCANADA241 LIC, scenario 1
 Proposal causes no interference.

Interference to BLANKCANADA246 LIC, scenario 1
 Proposal causes no interference.

Interference to proposal, scenario 1
 0.93% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WOSU-TV	D16	DT	APP	COLUMBUS, OH	WOSU_16_329H_311K	
Undesireds:	WXIX-TV	D15	DT	BL	NEWPORT, KY	DTVBL39738	180.6 km
	WEWS-TV	D15	DT	LIC	CLEVELAND, OH	BLCDT20091211ACS	168.9
	WOHL-CD	D15	DC	BL	LIMA, OH	DTVBL68549	121.4
	WQCW	D15	DT	BL	PORTSMOUTH, OH	DTVBL65130	193.7
	WFWC-CD	D16	DC	BL	FORT WAYNE, IN	DTVBL67485	214.6
	WDNI-CD	D16	DC	BL	INDIANAPOLIS, IN	DTVBL28199	271.6
	WMYO	D16	DT	BL	SALEM, IN	DTVBL34167	322.2
	WOBC-CD	D16	DC	BL	BATTLE CREEK, MI	DTVBL67001	301.8
	WSMH	D16	DT	LIC	FLINT, MI	BLCDT20090804ABG	354.0
	WINP-TV	D16	DT	BL	PITTSBURGH, PA	DTVBL41314	252.8
	WBNX-TV	D17	DT	BL	AKRON, OH	DTVBL72958	170.9
	WCET	D17	DT	BL	CINCINNATI, OH	DTVBL65666	178.7
	CHWI-DT	D16	DT	LIC	WHEATLEY, ON	BLANKCANADA241	223.9
	CITY-DT-2	D16	DT	LIC	WOODSTOCK, ON	BLANKCANADA246	367.5

Service area	Terrain-limited	IX-free	Percent IX
27319.4 2,649,544	26851.9 2,620,777	26230.7 2,596,363	2.31 0.93

Undesired	Total IX	Unique IX	Prcnt Unique IX
WOHL-CD D15 DC BL 256.3	9,945 248.3	9,843 0.92	0.38
WMYO D16 DT BL 116.9	6,176 108.9	6,074 0.41	0.23
WSMH D16 DT LIC 11.9	157 0.0	0 0.00	0.00
WINP-TV D16 DT BL 256.0	8,395 244.1	8,238 0.91	0.31