STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN AMENDMENT TO
APPLICATION FILE # 0000034499
FOR A MINOR MODIFICATION OF A
POST REPACK CONSTRUCTION PERMIT
FILE # 0000027773
WNUV - BALTIMORE, MARYLAND
APPLICATION FILE # 0000034499
DTV - CH. 25 - 920 kW - 381 m HAAT

Prepared for: BALTIMORE (WNUV-TV) LICENSEE, INC.

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

GENERAL

This office has been authorized by BALTIMORE (WNUV-TV) LICENSEE, INC., licensee of WNUV channel 40, facility ID number 7933, licensed to Baltimore, Maryland, 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 a minor modification of its post re-assignment construction permit, file # 0000027773, that authorizes WNUV to use channel 25 for its post-reassignment broadcasting. The instant application proposes to change ERP to 920 kW, to substitute a directional antenna and to update its allocation study, while using a 2 km cell and a 0.2 km increment, thereby eliminating unacceptable interference to any other pertinent facility. No other changes are proposed.

DIRECTIONAL ANTENNA

The applicant proposes to substitute a Dielectric model TFU-16GTH/VP-R O6SP elliptically polarized directional transmitting antenna with its center of radiation located at a height above ground of 383.6 meters, and a height above average terrain of 381 meters. The antenna manufacturer's horizontal plane azimuth radiation pattern for the horizontally polarized component is shown and tabulated in exhibit 2. The manufacturer's horizontal plane azimuth radiation pattern for the vertically polarized component is shown and tabulated in Exhibit 3. The manufacturer's vertical plane elevation radiation pattern, illustrating the antenna's radiation characteristics above and below the horizontal plane is shown and tabulated in Exhibit 4.

PREDICTED COVERAGE CONTOURS

The predicted coverage contours were calculated in accordance with the method described in Section 73.625(b) of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), proposed Effective Radiated Power, and antenna height above average terrain as determined for each profile radial. The average terrain on the eight cardinal radials from 3 kilometers to 16 kilometers from the site, was determined using the NED Three Second US Terrain Database as permitted in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. Exhibit 1 shows the predicted Noise Limited (39.85 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Baltimore, Maryland.

ALLOCATION CONSIDERATIONS

Post-Transition DTV Considerations

A study was performed, using the FCC's software, *tvstudy*, v. 2.2.5, while using a 2 km cell and a 0.2 km increment, to determine if the instant application for an amendment to an 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.

International DTV Considerations

The WNUV site is located 432.8 kilometers from the nearest point on the US-Canadian border. Canadian DTV facilities are included in the study, however no Canadian facility was predicted to be affected by the instant 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 WNUV 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 ($\mu W/cm^2$) for an "uncontrolled" environment, and is 1000 microwatts per centimeter squared ($\mu W/cm^2$) for a "controlled" environment. 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 for a "controlled" environment by dividing the operating frequency in MHZ by 0.3.

The predicted emissions of WNUV must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WNUV, which will operate on television Channel 25 (536-542 MHZ), the MPE is 359.33 microwatts per centimeter squared ($\mu W/cm^2$) in an "uncontrolled" environment and 1,796.7 $\mu W/cm^2$ in a "controlled" environment. The proposed WNUV facility will operate with a maximum ERP of 920 kW from an elliptically polarized directional transmitting antenna with a centerline height of 383.6 meters above ground level (AGL). Considering a conservative predicted vertical plane relative field factor of 0.300 the WNUV facility is predicted to produce a power density at two meters above ground level of 37.994 $\mu W/cm^2$, which is 10.57% of the FCC guideline value for an "uncontrolled" environment, and 2.114% of the FCC's guideline value for "controlled" environments. There are four other full-power DTV facilities, four LPFM facilities and three FM radio stations that are located at, or within relevant proximity of, the WNUV 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 54.16% of the limit applicable to "uncontrolled" environments, and 10.832% of the limit for "controlled" environments. (See Appendix A)

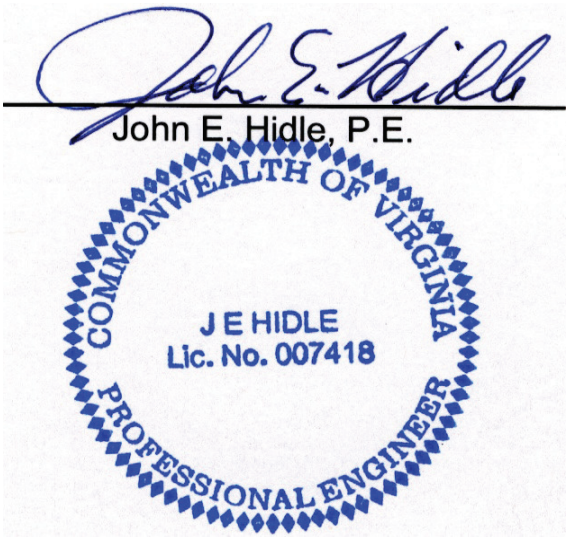
OCCUPATIONAL SAFETY

The licensee of WNUV is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WNUV 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 herein submitted that the instant amendment to WNUV's application, file # 0000034499, for minor modification of its post-reassignment channel 25 construction permit, file # 0000027773, to change its ERP to 920 kW, to substitute a directional antenna and to update its allocation study, using a 2 km cell and a 0.2 km increment, thereby insuring the elimination of all unacceptable interference to any other pertinent facility, 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 17, 2018



PREDICTED COVERAGE CONTOURS

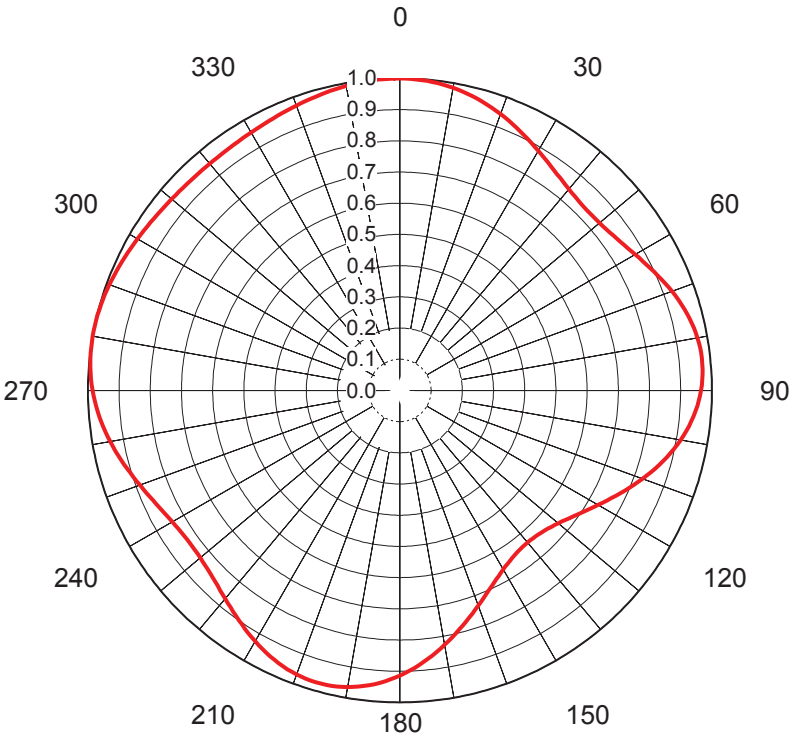
WNUV - BALTIMORE, MARYLAND
DTV Channel 25 - 920 kW ERP - 381 M HAAT
JULY, 2018

Predicted Noise Limited 39.85 dBu
F(50,90) Coverage Contour

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

Consulting Engineers
CTJC
CARL T. JONES CORPORATION

Dielectric®



AZIMUTH PATTERN Ex2
Horizontal Polarization

Proposal No.	**C-71188**
Date	**12-Jul-18**
Call Letters	**WNUV**
Channel	**25**
Frequency	**539 MHz**
Antenna Type	**TFU-16GTH/VP-R O6SP**
Gain	**1.24 (0.93dB)**
	Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	1.000	36	0.857	72	0.939	108	0.847	144	0.641	180	0.914	216	0.894	252	0.898	288	0.994	324	0.949
1	1.000	37	0.853	73	0.944	109	0.837	145	0.643	181	0.921	217	0.888	253	0.904	289	0.993	325	0.950
2	0.999	38	0.849	74	0.948	110	0.828	146	0.646	182	0.928	218	0.882	254	0.910	290	0.991	326	0.951
3	0.998	39	0.846	75	0.953	111	0.818	147	0.649	183	0.934	219	0.877	255	0.915	291	0.989	327	0.952
4	0.997	40	0.843	76	0.957	112	0.809	148	0.653	184	0.940	220	0.871	256	0.921	292	0.987	328	0.952
5	0.996	41	0.840	77	0.960	113	0.799	149	0.658	185	0.945	221	0.866	257	0.927	293	0.985	329	0.954
6	0.994	42	0.837	78	0.963	114	0.789	150	0.663	186	0.950	222	0.861	258	0.932	294	0.984	330	0.955
7	0.992	43	0.836	79	0.966	115	0.780	151	0.668	187	0.955	223	0.857	259	0.938	295	0.982	331	0.956
8	0.990	44	0.834	80	0.969	116	0.770	152	0.674	188	0.959	224	0.852	260	0.943	296	0.979	332	0.957
9	0.988	45	0.833	81	0.970	117	0.761	153	0.680	189	0.962	225	0.848	261	0.948	297	0.977	333	0.959
10	0.985	46	0.833	82	0.972	118	0.752	154	0.687	190	0.965	226	0.845	262	0.953	298	0.975	334	0.960
11	0.982	47	0.832	83	0.973	119	0.743	155	0.694	191	0.968	227	0.842	263	0.958	299	0.973	335	0.962
12	0.978	48	0.833	84	0.973	120	0.734	156	0.701	192	0.970	228	0.839	264	0.962	300	0.971	336	0.964
13	0.975	49	0.834	85	0.973	121	0.725	157	0.709	193	0.972	229	0.837	265	0.967	301	0.969	337	0.966
14	0.971	50	0.835	86	0.973	122	0.717	158	0.717	194	0.973	230	0.835	266	0.971	302	0.967	338	0.967
15	0.967	51	0.837	87	0.972	123	0.709	159	0.725	195	0.973	231	0.834	267	0.975	303	0.966	339	0.969
16	0.962	52	0.839	88	0.970	124	0.701	160	0.734	196	0.973	232	0.833	268	0.978	304	0.964	340	0.971
17	0.958	53	0.842	89	0.968	125	0.694	161	0.743	197	0.973	233	0.832	269	0.982	305	0.962	341	0.973
18	0.953	54	0.845	90	0.965	126	0.687	162	0.752	198	0.972	234	0.833	270	0.985	306	0.960	342	0.975
19	0.948	55	0.848	91	0.962	127	0.680	163	0.761	199	0.970	235	0.833	271	0.988	307	0.959	343	0.977
20	0.943	56	0.852	92	0.959	128	0.674	164	0.770	200	0.969	236	0.834	272	0.990	308	0.957	344	0.979
21	0.938	57	0.857	93	0.955	129	0.668	165	0.780	201	0.966	237	0.836	273	0.992	309	0.956	345	0.982
22	0.932	58	0.861	94	0.950	130	0.663	166	0.789	202	0.963	238	0.837	274	0.994	310	0.955	346	0.984
23	0.927	59	0.866	95	0.945	131	0.658	167	0.799	203	0.960	239	0.840	275	0.996	311	0.954	347	0.986
24	0.921	60	0.871	96	0.940	132	0.653	168	0.809	204	0.957	240	0.843	276	0.997	312	0.952	348	0.987
25	0.915	61	0.876	97	0.934	133	0.649	169	0.818	205	0.953	241	0.846	277	0.998	313	0.952	349	0.989
26	0.910	62	0.882	98	0.928	134	0.646	170	0.828	206	0.948	242	0.849	278	0.999	314	0.951	350	0.991
27	0.904	63	0.888	99	0.921	135	0.643	171	0.837	207	0.944	243	0.853	279	1.000	315	0.950	351	0.993
28	0.898	64	0.894	100	0.914	136	0.641	172	0.847	208	0.939	244	0.857	280	1.000	316	0.949	352	0.994
29	0.893	65	0.899	101	0.906	137	0.639	173	0.856	209	0.934	245	0.862	281	1.000	317	0.949	353	0.996
30	0.887	66	0.905	102	0.899	138	0.638	174	0.865	210	0.928	246	0.866	282	1.000	318	0.949	354	0.997
31	0.882	67	0.911	103	0.891	139	0.637	175	0.874	211	0.923	247	0.871	283	0.999	319	0.949	355	0.998
32	0.876	68	0.917	104	0.882	140	0.637	176	0.882	212	0.917	248	0.876	284	0.999	320	0.948	356	0.999
33	0.871	69	0.923	105	0.874	141	0.637	177	0.891	213	0.911	249	0.882	285	0.998	321	0.949	357	0.999
34	0.866	70	0.928	106	0.865	142	0.638	178	0.899	214	0.905	250	0.887	286	0.997	322	0.949	358	1.000
35	0.862	71	0.934	107	0.856	143	0.639	179	0.906	215	0.899	251	0.893	287	0.996	323	0.949	359	1.000

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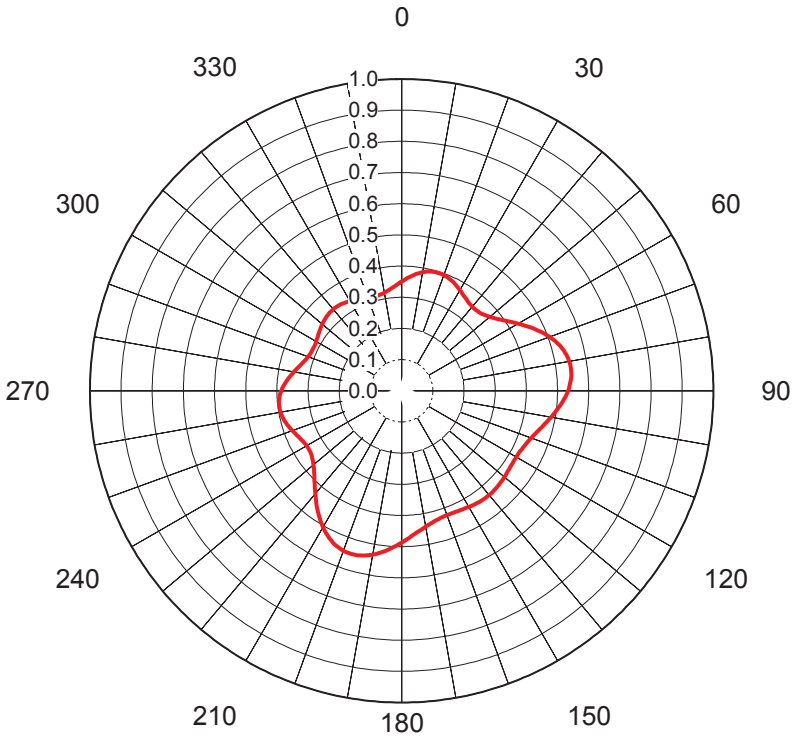


AZIMUTH PATTERN Ex3
Vertical Polarization

Proposal No.	**C-71188**
Date	**12-Jul-18**
Call Letters	**WNUV**
Channel	**25**
Frequency	**539 MHz**
Antenna Type	**TFU-16GTH/VP-R O6SP**
Gain	**1.73 (2.39dB)**
	Calculated

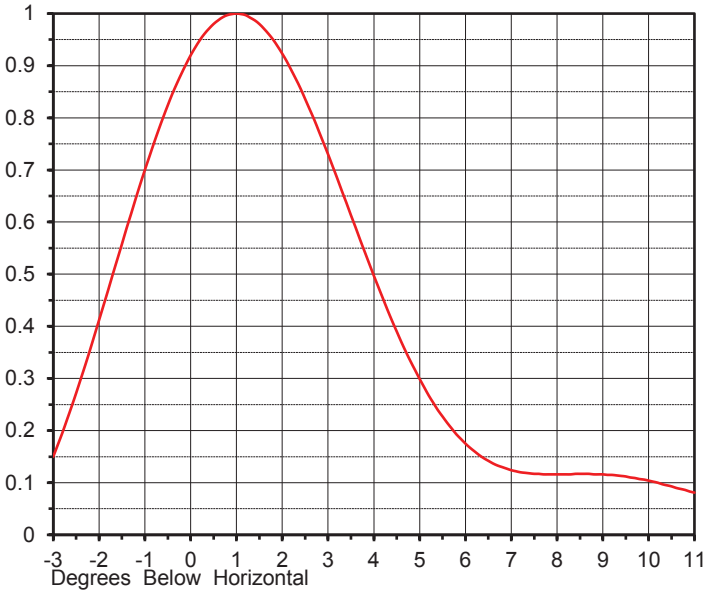
Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.350	36	0.358	72	0.517	108	0.450	144	0.435	180	0.487	216	0.462	252	0.379	288	0.324	324	0.340
1	0.354	37	0.356	73	0.522	109	0.446	145	0.435	181	0.492	217	0.454	253	0.382	289	0.321	325	0.339
2	0.358	38	0.354	74	0.527	110	0.443	146	0.434	182	0.497	218	0.446	254	0.384	290	0.320	326	0.338
3	0.362	39	0.353	75	0.532	111	0.439	147	0.433	183	0.502	219	0.439	255	0.387	291	0.318	327	0.337
4	0.366	40	0.352	76	0.536	112	0.437	148	0.432	184	0.507	220	0.431	256	0.389	292	0.317	328	0.335
5	0.370	41	0.352	77	0.539	113	0.434	149	0.431	185	0.512	221	0.424	257	0.391	293	0.316	329	0.334
6	0.374	42	0.352	78	0.542	114	0.432	150	0.430	186	0.517	222	0.416	258	0.392	294	0.315	330	0.332
7	0.377	43	0.352	79	0.544	115	0.430	151	0.429	187	0.522	223	0.409	259	0.394	295	0.315	331	0.331
8	0.380	44	0.353	80	0.546	116	0.428	152	0.428	188	0.526	224	0.402	260	0.395	296	0.314	332	0.329
9	0.383	45	0.354	81	0.547	117	0.427	153	0.427	189	0.530	225	0.396	261	0.396	297	0.315	333	0.327
10	0.386	46	0.356	82	0.548	118	0.426	154	0.426	190	0.534	226	0.390	262	0.396	298	0.315	334	0.326
11	0.389	47	0.359	83	0.548	119	0.425	155	0.426	191	0.537	227	0.384	263	0.396	299	0.316	335	0.324
12	0.391	48	0.362	84	0.547	120	0.425	156	0.425	192	0.540	228	0.379	264	0.396	300	0.317	336	0.322
13	0.392	49	0.365	85	0.546	121	0.424	157	0.425	193	0.542	229	0.374	265	0.395	301	0.318	337	0.321
14	0.394	50	0.369	86	0.545	122	0.424	158	0.424	194	0.545	230	0.369	266	0.394	302	0.319	338	0.319
15	0.395	51	0.374	87	0.542	123	0.425	159	0.424	195	0.546	231	0.365	267	0.392	303	0.321	339	0.318
16	0.396	52	0.379	88	0.540	124	0.425	160	0.425	196	0.547	232	0.362	268	0.391	304	0.322	340	0.317
17	0.396	53	0.384	89	0.537	125	0.426	161	0.425	197	0.548	233	0.359	269	0.389	305	0.324	341	0.316
18	0.396	54	0.390	90	0.534	126	0.426	162	0.426	198	0.548	234	0.356	270	0.386	306	0.326	342	0.315
19	0.396	55	0.396	91	0.530	127	0.427	163	0.427	199	0.547	235	0.354	271	0.383	307	0.327	343	0.315
20	0.395	56	0.402	92	0.526	128	0.428	164	0.428	200	0.546	236	0.353	272	0.380	308	0.329	344	0.314
21	0.394	57	0.409	93	0.522	129	0.429	165	0.430	201	0.544	237	0.352	273	0.377	309	0.331	345	0.315
22	0.392	58	0.416	94	0.517	130	0.430	166	0.432	202	0.542	238	0.352	274	0.374	310	0.332	346	0.315
23	0.391	59	0.424	95	0.512	131	0.431	167	0.434	203	0.539	239	0.352	275	0.370	311	0.334	347	0.316
24	0.389	60	0.431	96	0.507	132	0.432	168	0.437	204	0.536	240	0.352	276	0.366	312	0.335	348	0.317
25	0.387	61	0.439	97	0.502	133	0.433	169	0.439	205	0.532	241	0.353	277	0.362	313	0.337	349	0.318
26	0.384	62	0.446	98	0.497	134	0.434	170	0.443	206	0.527	242	0.354	278	0.358	314	0.338	350	0.320
27	0.382	63	0.454	99	0.492	135	0.435	171	0.446	207	0.522	243	0.356	279	0.354	315	0.339	351	0.321
28	0.379	64	0.462	100	0.487	136	0.435	172	0.450	208	0.517	244	0.358	280	0.350	316	0.340	352	0.324
29	0.376	65	0.470	101	0.482	137	0.436	173	0.454	209	0.511	245	0.360	281	0.347	317	0.340	353	0.326
30	0.373	66	0.477	102	0.477	138	0.436	174	0.458	210	0.505	246	0.362	282	0.343	318	0.341	354	0.329
31	0.370	67	0.484	103	0.472	139	0.436	175	0.462	211	0.498	247	0.365	283	0.339	319	0.341	355	0.332
32	0.368	68	0.492	104	0.467	140	0.437	176	0.467	212	0.492	248	0.368	284	0.336	320	0.341	356	0.336
33	0.365	69	0.498	105	0.462	141	0.436	177	0.472	213	0.484	249	0.370	285	0.332	321	0.341	357	0.339
34	0.362	70	0.505	106	0.458	142	0.436	178	0.477	214	0.477	250	0.373	286	0.329	322	0.341	358	0.343
35	0.360	71	0.511	107	0.454	143	0.436	179	0.482	215	0.470	251	0.376	287	0.326	323	0.340	359	0.347

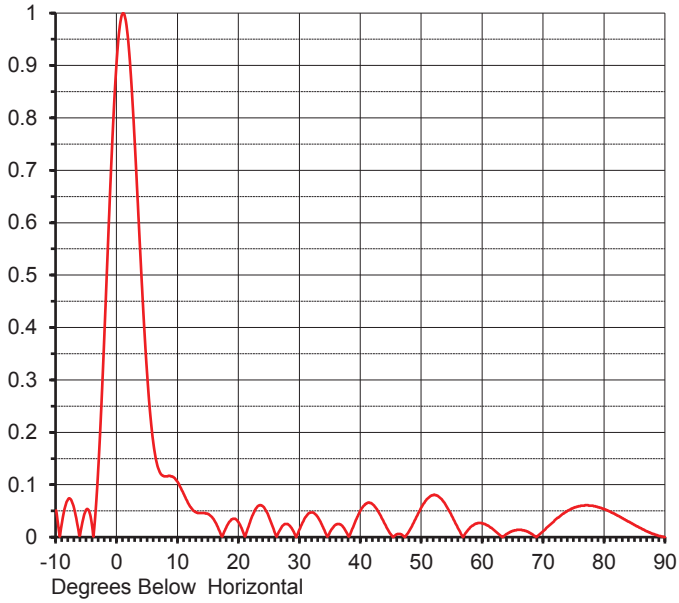
Dielectric®

ELEVATION PATTERN

Proposal No.	**C-71188**
Date	**12-Jul-18**
Call Letters	**WNUV**
Channel	**25**
Frequency	**539 MHz**
Antenna Type	**TFU-16GTH/VP-R O6SP**

RMS Directivity at Main Lobe	**14.0 (11.46 dB)**	Beam Tilt	**1.00 deg**
RMS Directivity at Horizontal	**11.8 (10.72 dB)**	Pattern Number	**16G140100**
	Calculated		





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.051	10.0	0.104	30.0	0.016	50.0	0.058	70.0	0.012
-9.0	0.031	11.0	0.081	31.0	0.039	51.0	0.074	71.0	0.023
-8.0	0.073	12.0	0.058	32.0	0.047	52.0	0.081	72.0	0.034
-7.0	0.052	13.0	0.047	33.0	0.037	53.0	0.075	73.0	0.043
-6.0	0.010	14.0	0.046	34.0	0.014	54.0	0.060	74.0	0.051
-5.0	0.053	15.0	0.044	35.0	0.011	55.0	0.039	75.0	0.056
-4.0	0.012	16.0	0.031	36.0	0.024	56.0	0.016	76.0	0.059
-3.0	0.150	17.0	0.006	37.0	0.021	57.0	0.004	77.0	0.061
-2.0	0.412	18.0	0.021	38.0	0.001	58.0	0.019	78.0	0.060
-1.0	0.700	19.0	0.035	39.0	0.027	59.0	0.026	79.0	0.057
0.0	0.920	20.0	0.027	40.0	0.052	60.0	0.026	80.0	0.053
1.0	1.000	21.0	0.001	41.0	0.065	61.0	0.021	81.0	0.048
2.0	0.923	22.0	0.035	42.0	0.062	62.0	0.012	82.0	0.042
3.0	0.730	23.0	0.058	43.0	0.046	63.0	0.002	83.0	0.036
4.0	0.497	24.0	0.058	44.0	0.024	64.0	0.006	84.0	0.029
5.0	0.299	25.0	0.036	45.0	0.004	65.0	0.012	85.0	0.023
6.0	0.175	26.0	0.005	46.0	0.006	66.0	0.014	86.0	0.017
7.0	0.124	27.0	0.019	47.0	0.002	67.0	0.012	87.0	0.011
8.0	0.116	28.0	0.025	48.0	0.013	68.0	0.006	88.0	0.006
9.0	0.116	29.0	0.010	49.0	0.035	69.0	0.002	89.0	0.002
								90.0	0.000

APPENDIX A

SUMMARY OF RADIOFREQUENCY RADIATION STUDY

WNUV, Baltimore, MD
Channel 25, 920 kW, 381 m HAAT
July, 2018

CALL	SERVICE	CHANNEL	FREQUENCY	POLAR-IZATION	ANTENNA HEIGHT	ERP (kW)	VERT. RELATIVE FIELD FACTOR	WORST-CASE PREDICTED POWER DENSITY (μW/cm²)	FCC UNCONTROLLED LIMIT (μW/cm²)	PERCENT OF UNCONTROLLED LIMIT
WNUV	DT	25	539	H & V	383.6	920.000	0.300	37.994	359.33	10.57%
WBFF	DT	26	545	H	374.8	440.000	0.300	9.520	363.33	2.62%
WJZ-TV	DT	11	201	H & V	295	30.000	0.300	2.102	200.00	1.05%
WBAL-TV	DT	12	207	H & V	295	27.200	0.300	1.905	200.00	0.95%
WMAR-TV	DT	27	551	H & V	294.6	830.000	0.300	58.301	367.33	15.87%
WTIZ-LP	FM	228	93.5	H	152	0.004	1.000	0.006	200.00	0.00%
W248AO	FM	248	97.5	H	210	0.250	1.000	0.193	200.00	0.10%
WIYY	FM	250	97.9	H & V	275	13.500	1.000	12.104	200.00	6.05%
WLIF (AUX)	FM	270	101.9	H & V	273	2.600	1.000	2.366	200.00	1.18%
WZFT	FM	282	104.3	H & V	296	13.000	1.000	10.050	200.00	5.02%
WJZ-FM (AUX)	FM	289	105.7	H & V	273	0.430	1.000	0.391	200.00	0.20%
W291BA	FM	291	106.1	H & V	273	0.250	1.000	0.227	200.00	0.11%
WWMX (AUX)	FM	293	106.5	H & V	210	13.500	1.000	20.850	200.00	10.43%
								TOTAL PERCENTAGE OF FCC GUIDELINE VALUE =		54.16%

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

Consulting Engineers
CTJC
CARL T. JONES CORPORATION

WNUV - BALTIMORE, MARYLAND
Longley-Rice Interference Analysis
July 2018

```
tvstudy v2.2.5 (4uoc83)
Database: localhost,  Study: WNUV TFU16 2Xp2 920 B,  Model: Longley-Rice
Start: 2018.07.16 11:25:29

Study created: 2018.07.16 11:25:28

Study build station data: LMS TV 2018-07-15

    Proposal: WNUV D25 DT APP BALTIMORE, MD
 File number: WNUV TFU16 2Xp2 920 B
 Facility ID: 7933
Station data: User record
   Record ID: 745
     Country: U.S.
        Zone: I

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
Yes	WDPB	D24	DT	CP	SEAFORD, DE	BLANK0000026250	117.4 km
Yes	WDPB	D24	DT	APP	SEAFORD, DE	BLANK0000034446	117.4
No	WNYE-TV	D24	DT	APP	NEW YORK, NY	BLANK0000035705	276.1
No	WNYE-TV	D24	DT	LIC	NEW YORK, NY	BLEDT20071228ABM	276.1
No	WTAJ-TV	D24	DT	CP	ALTOONA, PA	BLANK0000034754	205.0
No	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	144.1
No	WPHA-CD	D24	DC	CP	PHILADELPHIA, PA	BLANK0000036105	144.1
No	WRLH-TV	D24	DT	CP	RICHMOND, VA	BLANK0000034147	219.0
Yes	WDCO-CD	D24	DC	CP	Woodstock, VA	BLANK0000034546	71.3
No	WUNK-TV	D25	DT	CP	GREENVILLE, NC	BLANK0000025767	428.8
Yes	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	271.6
Yes	WSKA	D25	DT	CP	CORNING, NY	BLANK0000034484	313.9
No	WMHT	D25	DT	CP	SCHENECTADY, NY	BLANK0000028390	427.4
No	WMHT	D25	DT	APP	SCHENECTADY, NY	BLANK0000035673	427.4
No	WTVU-CD	D25	DC	CP	SYRACUSE, NY	BLANK0000034939	415.7
Yes	KDKA-TV	D25	DT	LIC	PITTSBURGH, PA	BLCDT20041004ACS	314.7
No	WLFB	D25	DT	CP	BLUEFIELD, WV	BLANK0000034862	465.6
Yes	WBFF	D26	DT	CP	BALTIMORE, MD	BLANK0000025699	0.0
No	WGPT	D26	DT	CP	OAKLAND, MD	BLANK0000034106	227.3
No	WQAV-CD	D26	DC	CP	GLASSBORO, NJ	BLANK0000034526	161.2
No	WFUT-DT	D26	DT	CP	NEWARK, NJ	BLANK0000034667	275.7
No	WHTJ	D26	DT	CP	CHARLOTTESVILLE, VA	BLANK0000034130	219.0
No	WAZT-CD	D26	DC	BL	WOODSTOCK, VA	DTVBL168449	150.8

```
No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D25
   Latitude:  39 20 10.40 N (NAD83)
  Longitude:  76 38 57.90 W
Height AMSL: 465.6 m
       HAAT: 381.0 m
   Peak ERP: 920 kW
    Antenna: DIE TFU16GTH VPR 06SP 0.0 deg
```

Appendix B - Interference Analysis
WNUV - Baltimore, Maryland
Channel 25 - 920 kW - Page 2

```
Elev Pattrn: Generic
  Elec Tilt: 1.00

39.9 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg    920 kW   363.8 m  104.6 km
 45.0        648      366.3    101.6
 90.0        857      421.4    109.2
135.0        389      455.1    104.2
180.0        769      433.8    109.2
225.0        669      352.9    100.8
270.0        893      337.0    101.9
315.0        833      314.8     99.2

Distance to Canadian border: 432.8 km

Distance to Mexican border: 2399.5 km

**Proposal is within coordination distance of FCC monitoring station
**Proposal exceeds field strength limit at FCC monitoring station
Conditions at FCC monitoring station: Laurel MD
Bearing: 217.9 degrees   Distance: 24.1 km
ERP: 717 kW   HAAT: 366.8 m  Field strength: 94.6 dBu, 53.6 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 281.3 degrees   Distance: 2433.3 km

Study cell size: 2.00 km
Profile point spacing: 0.20 km

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

-------------------------------------------------------------------------------------------------------
Interference to BLANK0000026250 CP scenario 1

             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     WDPB      D24   DT  CP      SEAFORD, DE              BLANK0000026250

Undesireds:  WNUV      D25   DT  BL      BALTIMORE, MD            DTVBL7933               117.4 km
             WNUV      D25   DT  APP     BALTIMORE, MD            WNUV TFU16 2Xp2 920 B   117.4
             WNYE-TV   D24   DT  APP     NEW YORK, NY             BLANK0000035705         271.8
             WPHA-CD   D24   DC  LIC     PHILADELPHIA, PA         BLDTA20130920ADK        157.6
             WRLH-TV   D24   DT  CP      RICHMOND, VA             BLANK0000034147         215.4
             WDCO-CD   D24   DC  CP      Woodstock, VA            BLANK0000034546         141.8

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
 11523.9     594,332   11523.9     594,332   11479.9     594,206   11463.9     594,189     0.14     0.00

Undesired                        Total IX     Unique IX, before      Unique IX, after
WNUV D25 DT BL            20.0          37      12.0          20
WNUV D25 DT APP           48.0         110                          28.0          37
WRLH-TV D24 DT CP          4.0          17       0.0           0       0.0           0
WDCO-CD D24 DC CP         32.0         106      24.0          89      12.0          33

-------------------------------------------------------------------------------------------------------
Interference to BLANK0000026250 CP scenario 2

             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     WDPB      D24   DT  CP      SEAFORD, DE              BLANK0000026250

Undesireds:  WNUV      D25   DT  BL      BALTIMORE, MD            DTVBL7933               117.4 km
             WNUV      D25   DT  APP     BALTIMORE, MD            WNUV TFU16 2Xp2 920 B   117.4
             WNYE-TV   D24   DT  APP     NEW YORK, NY             BLANK0000035705         271.8
             WPHA-CD   D24   DC  CP      PHILADELPHIA, PA         BLANK0000036105         157.6
             WRLH-TV   D24   DT  CP      RICHMOND, VA             BLANK0000034147         215.4
```

	WDCO-CD	D24	DC	CP	Woodstock, VA	BLANK0000034546		141.8	

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
11523.9	594,332	11523.9	594,332	11475.9	594,204	11459.9	594,187	0.14	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
WNUV D25 DT BL	20.0	37	12.0	20	
WNUV D25 DT APP	48.0	110		28.0	37
WPHA-CD D24 DC CP	4.0	2	4.0	2	4.0	2
WRLH-TV D24 DT CP	4.0	17	0.0	0	0.0	0
WDCO-CD D24 DC CP	32.0	106	24.0	89	12.0	33

Interference to BLANK0000034446 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDPB	D24	DT	APP	SEAFORD, DE	BLANK0000034446	
Undesireds:	WNUV	D25	DT	BL	BALTIMORE, MD	DTVBL7933	117.4 km
	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	117.4
	WNYE-TV	D24	DT	APP	NEW YORK, NY	BLANK0000035705	271.8
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	157.5
	WDCO-CD	D24	DC	CP	Woodstock, VA	BLANK0000034546	141.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
13172.9	653,240	13172.9	653,240	13037.1	651,172	12941.3	648,153	0.73	0.46

Undesired	Total IX	Unique IX, before		Unique IX, after	
WNUV D25 DT BL	115.8	1,319	51.9	948	
WNUV D25 DT APP	231.6	5,087		147.7	3,967
WDCO-CD D24 DC CP	83.9	1,120	20.0	749	0.0	0

Interference to BLANK0000034446 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDPB	D24	DT	APP	SEAFORD, DE	BLANK0000034446	
Undesireds:	WNUV	D25	DT	BL	BALTIMORE, MD	DTVBL7933	117.4 km
	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	117.4
	WNYE-TV	D24	DT	APP	NEW YORK, NY	BLANK0000035705	271.8
	WPHA-CD	D24	DC	CP	PHILADELPHIA, PA	BLANK0000036105	157.5
	WDCO-CD	D24	DC	CP	Woodstock, VA	BLANK0000034546	141.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
13172.9	653,240	13172.9	653,240	12921.7	633,971	12825.9	630,952	0.74	0.48

Undesired	Total IX	Unique IX, before		Unique IX, after	
WNUV D25 DT BL	115.8	1,319	51.9	948	
WNUV D25 DT APP	231.6	5,087		147.7	3,967
WPHA-CD D24 DC CP	115.4	17,201	115.4	17,201	115.4	17,201
WDCO-CD D24 DC CP	83.9	1,120	20.0	749	0.0	0

Interference to BLANK0000034546 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDCO-CD	D24	DC	CP	Woodstock, VA	BLANK0000034546	
Undesireds:	WNUV	D25	DT	BL	BALTIMORE, MD	DTVBL7933	71.3 km
	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	71.3
	WDPB	D24	DT	CP	SEAFORD, DE	BLANK0000026250	141.8
	WNYE-TV	D24	DT	APP	NEW YORK, NY	BLANK0000035705	346.5
	WTAJ-TV	D24	DT	CP	ALTOONA, PA	BLANK0000034754	215.0
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	214.3
	WRLH-TV	D24	DT	CP	RICHMOND, VA	BLANK0000034147	154.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX

5805.2	4,808,309	5757.2	4,803,315	5469.9	4,680,233	5449.9	4,675,126	0.37	0.11

Undesired		Total IX		Unique IX, before		Unique IX, after	
WNUV D25 DT BL	163.6	107,881	79.8	53,995			
WNUV D25 DT APP	187.6	113,952			99.8	59,102	
WTAJ-TV D24 DT CP	12.0	575	0.0	0	0.0	0	
WRLH-TV D24 DT CP	207.5	69,087	111.8	14,626	107.8	13,662	

Interference to BLANK0000034546 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDCO-CD	D24	DC	CP	Woodstock, VA	BLANK0000034546	
Undesireds:	WNUV	D25	DT	BL	BALTIMORE, MD	DTVBL7933	71.3 km
	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	71.3
	WDPB	D24	DT	APP	SEAFORD, DE	BLANK0000034446	141.9
	WNYE-TV	D24	DT	APP	NEW YORK, NY	BLANK0000035705	346.5
	WTAJ-TV	D24	DT	CP	ALTOONA, PA	BLANK0000034754	215.0
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	214.3
	WRLH-TV	D24	DT	CP	RICHMOND, VA	BLANK0000034147	154.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
5805.2	4,808,309	5757.2	4,803,315	5465.9	4,680,056	5445.9	4,674,949	0.37	0.11

Undesired		Total IX		Unique IX, before		Unique IX, after	
WNUV D25 DT BL	163.6	107,881	79.8	53,995			
WNUV D25 DT APP	187.6	113,952			99.8	59,102	
WDPB D24 DT APP	16.0	780	4.0	177	4.0	177	
WTAJ-TV D24 DT CP	12.0	575	0.0	0	0.0	0	
WRLH-TV D24 DT CP	207.5	69,087	107.8	14,405	103.8	13,441	

Interference to BLANK0000054140 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	
Undesireds:	WNUV	D25	DT	BL	BALTIMORE, MD	DTVBL7933	271.6 km
	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	271.6
	WNYE-TV	D24	DT	APP	NEW YORK, NY	BLANK0000035705	5.3
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	127.6
	WMHT	D25	DT	CP	SCHENECTADY, NY	BLANK0000028390	212.6
	WJAR	D25	DT	CP	PROVIDENCE, RI	BLANK0000034380	261.2
	WFUT-DT	D26	DT	CP	NEWARK, NJ	BLANK0000034667	4.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
25364.9	19,853,836	23971.7	19,614,553	23673.2	19,518,009	23420.0	19,491,287	1.07	0.14

Undesired		Total IX		Unique IX, before		Unique IX, after	
WNUV D25 DT BL	28.0	1,372	24.0	1,264			
WNUV D25 DT APP	297.4	31,378			277.2	27,986	
WNYE-TV D24 DT APP	12.1	5,145	0.0	0	0.0	0	
WMHT D25 DT CP	133.2	24,591	97.0	16,508	88.9	14,856	
WJAR D25 DT CP	125.2	56,420	97.0	48,445	97.0	48,445	
WFUT-DT D26 DT CP	48.2	22,244	32.2	17,099	32.2	17,099	

Interference to BLANK0000054140 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	
Undesireds:	WNUV	D25	DT	BL	BALTIMORE, MD	DTVBL7933	271.6 km
	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	271.6
	WNYE-TV	D24	DT	LIC	NEW YORK, NY	BLEDT20071228ABM	5.3
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	127.6
	WMHT	D25	DT	CP	SCHENECTADY, NY	BLANK0000028390	212.6

	WJAR	D25	DT	CP	PROVIDENCE, RI	BLANK0000034380	261.2
	WFUT-DT	D26	DT	CP	NEWARK, NJ	BLANK0000034667	4.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
25364.9	19,853,836	23971.7	19,614,553	23673.2	19,518,009	23420.0	19,491,287	1.07	0.14

Undesired	Total IX		Unique IX, before		Unique IX, after	
WNUV D25 DT BL	28.0	1,372	24.0	1,264		
WNUV D25 DT APP	297.4	31,378			277.2	27,986
WNYE-TV D24 DT LIC	12.1	5,145	0.0	0	0.0	0
WMHT D25 DT CP	133.2	24,591	97.0	16,508	88.9	14,856
WJAR D25 DT CP	125.2	56,420	97.0	48,445	97.0	48,445
WFUT-DT D26 DT CP	48.2	22,244	32.2	17,099	32.2	17,099

Interference to BLANK0000054140 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	
Undesireds:	WNUV	D25	DT	BL	BALTIMORE, MD	DTVBL7933	271.6 km
	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	271.6
	WNYE-TV	D24	DT	APP	NEW YORK, NY	BLANK0000035705	5.3
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	127.6
	WMHT	D25	DT	APP	SCHENECTADY, NY	BLANK0000035673	212.6
	WJAR	D25	DT	CP	PROVIDENCE, RI	BLANK0000034380	261.2
	WFUT-DT	D26	DT	CP	NEWARK, NJ	BLANK0000034667	4.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
25364.9	19,853,836	23971.7	19,614,553	23632.8	19,509,687	23383.6	19,483,463	1.05	0.13

Undesired	Total IX		Unique IX, before		Unique IX, after	
WNUV D25 DT BL	28.0	1,372	24.0	1,264		
WNUV D25 DT APP	297.4	31,378			273.2	27,488
WNYE-TV D24 DT APP	12.1	5,145	0.0	0	0.0	0
WMHT D25 DT APP	177.7	35,850	137.5	24,830	125.3	22,680
WJAR D25 DT CP	125.2	56,420	93.0	45,508	93.0	45,508
WFUT-DT D26 DT CP	48.2	22,244	32.2	17,099	32.2	17,099

Interference to BLANK0000054140 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	
Undesireds:	WNUV	D25	DT	BL	BALTIMORE, MD	DTVBL7933	271.6 km
	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	271.6
	WNYE-TV	D24	DT	LIC	NEW YORK, NY	BLEDT20071228ABM	5.3
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	127.6
	WMHT	D25	DT	APP	SCHENECTADY, NY	BLANK0000035673	212.6
	WJAR	D25	DT	CP	PROVIDENCE, RI	BLANK0000034380	261.2
	WFUT-DT	D26	DT	CP	NEWARK, NJ	BLANK0000034667	4.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
25364.9	19,853,836	23971.7	19,614,553	23632.8	19,509,687	23383.6	19,483,463	1.05	0.13

Undesired	Total IX		Unique IX, before		Unique IX, after	
WNUV D25 DT BL	28.0	1,372	24.0	1,264		
WNUV D25 DT APP	297.4	31,378			273.2	27,488
WNYE-TV D24 DT LIC	12.1	5,145	0.0	0	0.0	0
WMHT D25 DT APP	177.7	35,850	137.5	24,830	125.3	22,680
WJAR D25 DT CP	125.2	56,420	93.0	45,508	93.0	45,508
WFUT-DT D26 DT CP	48.2	22,244	32.2	17,099	32.2	17,099

Interference to BLANK0000034484 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance

Desired:	WSKA	D25	DT	CP	CORNING, NY	BLANK0000034484	
Undesireds:	WNUV	D25	DT	BL	BALTIMORE, MD	DTVBL7933	313.9 km
	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	313.9
	WPXJ-TV	D24	DT	CP	BATAVIA, NY	BLANK0000034885	113.6
	WMHT	D25	DT	CP	SCHENECTADY, NY	BLANK0000028390	257.5
	WTVU-CD	D25	DC	CP	SYRACUSE, NY	BLANK0000034939	126.2
	KDKA-TV	D25	DT	LIC	PITTSBURGH, PA	BLCDT20041004ACS	306.3
	WGCE-CD	D26	DC	CP	ROCHESTER, NY	BLANK0000033855	117.9
	CBLFT-DT	D25	DT	LIC	TORONTO, ON	BLANKCANADA235	251.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
17350.1	546,588	15350.9	445,045	15094.0	441,298	15090.0	441,298	0.03	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WNUV D25 DT BL		0.0	0	0.0	0		
WNUV D25 DT APP		4.0	0			4.0	0
WPXJ-TV D24 DT CP		44.2	622	16.1	100	16.1	100
WMHT D25 DT CP		48.1	1,165	16.0	519	16.0	519
WTVU-CD D25 DC CP		56.2	1,387	24.1	741	24.1	741
KDKA-TV D25 DT LIC		100.5	495	92.4	457	92.4	457
WGCE-CD D26 DC CP		8.0	67	4.0	0	4.0	0
CBLFT-DT D25 DT LIC		80.3	1,431	40.1	754	40.1	754

Interference to BLANK0000034484 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSKA	D25	DT	CP	CORNING, NY	BLANK0000034484	
Undesireds:	WNUV	D25	DT	BL	BALTIMORE, MD	DTVBL7933	313.9 km
	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	313.9
	WPXJ-TV	D24	DT	CP	BATAVIA, NY	BLANK0000034885	113.6
	WMHT	D25	DT	APP	SCHENECTADY, NY	BLANK0000035673	257.5
	WTVU-CD	D25	DC	CP	SYRACUSE, NY	BLANK0000034939	126.2
	KDKA-TV	D25	DT	LIC	PITTSBURGH, PA	BLCDT20041004ACS	306.3
	WGCE-CD	D26	DC	CP	ROCHESTER, NY	BLANK0000033855	117.9
	CBLFT-DT	D25	DT	LIC	TORONTO, ON	BLANKCANADA235	251.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
17350.1	546,588	15350.9	445,045	15041.9	437,590	15037.8	437,590	0.03	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WNUV D25 DT BL		0.0	0	0.0	0		
WNUV D25 DT APP		4.0	0			4.0	0
WPXJ-TV D24 DT CP		44.2	622	16.1	100	16.1	100
WMHT D25 DT APP		116.3	5,145	68.1	4,227	68.1	4,227
WTVU-CD D25 DC CP		56.2	1,387	8.1	469	8.1	469
KDKA-TV D25 DT LIC		100.5	495	92.4	457	92.4	457
WGCE-CD D26 DC CP		8.0	67	4.0	0	4.0	0
CBLFT-DT D25 DT LIC		80.3	1,431	40.1	754	40.1	754

Interference to BLCDT20041004ACS LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KDKA-TV	D25	DT	LIC	PITTSBURGH, PA	BLCDT20041004ACS	
Undesireds:	WNUV	D25	DT	BL	BALTIMORE, MD	DTVBL7933	314.7 km
	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	314.7
	WEAO	D24	DT	CP	AKRON, OH	BLANK0000034293	150.8
	WTAJ-TV	D24	DT	CP	ALTOONA, PA	BLANK0000034754	133.5
	WXYZ-TV	D25	DT	CP	DETROIT, MI	BLANK0000034678	347.3
	WGPT	D26	DT	CP	OAKLAND, MD	BLANK0000034106	136.0
	WOSC-CD	D26	DC	CP	PITTSBURGH, PA	BLANK0000029678	7.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
31466.0	3,611,796	30277.0	3,503,139	30181.0	3,496,085	30148.9	3,493,207	0.11	0.08

Undesired		Total IX	Unique IX, before		Unique IX, after	
WNUV D25 DT BL	12.0	507	12.0	507		
WNUV D25 DT APP	44.1	3,385			44.1	3,385
WEAO D24 DT CP	8.0	131	0.0	0	0.0	0
WTAJ-TV D24 DT CP	12.0	244	12.0	244	12.0	244
WXYZ-TV D25 DT CP	68.0	6,227	60.0	6,096	60.0	6,096
WGPT D26 DT CP	4.0	76	4.0	76	4.0	76

Interference to BLANK0000025699 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WBFF	D26	DT	CP	BALTIMORE, MD	BLANK0000025699	
Undesireds:	WNUV	D25	DT	BL	BALTIMORE, MD	DTVBL7933	0.0 km
	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	0.0
	WGPT	D26	DT	CP	OAKLAND, MD	BLANK0000034106	227.3
	WQAV-CD	D26	DC	CP	GLASSBORO, NJ	BLANK0000034526	161.2
	WFUT-DT	D26	DT	CP	NEWARK, NJ	BLANK0000034667	275.7
	WYLN-LP	D26+	DC	CP	HAZLETON, PA	BLANK0000034698	190.8
	WOSC-CD	D26	DC	CP	PITTSBURGH, PA	BLANK0000029678	308.4
	WHTJ	D26	DT	CP	CHARLOTTESVILLE, VA	BLANK0000034130	219.0
	WAZT-CD	D26	DC	BL	WOODSTOCK, VA	DTVBL168449	150.8
	WMAR-TV	D27	DT	CP	BALTIMORE, MD	BLANK0000026796	0.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26237.3	8,523,983	25415.9	8,368,253	24608.1	8,136,054	24592.0	8,135,439	0.07	0.01

Undesired		Total IX	Unique IX, before		Unique IX, after	
WNUV D25 DT BL	0.0	0	0.0	0		
WNUV D25 DT APP	20.1	1,367			16.1	615
WGPT D26 DT CP	12.1	658	4.0	126	4.0	126
WQAV-CD D26 DC CP	198.9	58,193	182.8	52,619	178.9	51,867
WFUT-DT D26 DT CP	40.3	12,947	8.1	1,060	8.1	1,060
WYLN-LP D26+ DC CP	20.2	2,042	0.0	0	0.0	0
WHTJ D26 DT CP	512.9	150,673	337.0	104,620	337.0	104,620
WAZT-CD D26 DC BL	255.7	62,807	91.9	26,461	91.9	26,461
WMAR-TV D27 DT CP	4.0	746	0.0	0	0.0	0

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	
Undesireds:	WDPB	D24	DT	CP	SEAFORD, DE	BLANK0000026250	117.4 km
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	144.1
	WDCO-CD	D24	DC	CP	Woodstock, VA	BLANK0000034546	71.3
	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	271.6
	KDKA-TV	D25	DT	LIC	PITTSBURGH, PA	BLCDT20041004ACS	314.7
	WAZT-CD	D26	DC	BL	WOODSTOCK, VA	DTVBL168449	150.8

Service area		Terrain-limited		IX-free		Percent IX	
33915.2	10,035,250	32354.7	9,717,546	32314.6	9,702,125	0.12	0.16

Undesired		Total IX	Unique IX		Prcnt Unique IX	
WDCO-CD D24 DC CP	12.0	10,795	12.0	10,795	0.04	0.11
WWOR-TV D25 DT LIC	4.0	152	4.0	152	0.01	0.00
KDKA-TV D25 DT LIC	12.1	3,293	12.1	3,293	0.04	0.03
WAZT-CD D26 DC BL	11.9	1,181	11.9	1,181	0.04	0.01

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNUV	D25	DT	APP	BALTIMORE, MD	WNUV TFU16 2Xp2 920 B	
Undesireds:	WDPB	D24	DT	APP	SEAFORD, DE	BLANK0000034446	117.4 km

Appendix B - Interference Analysis
WNUV - Baltimore, Maryland
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WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	144.1
WDCO-CD	D24	DC	CP	Woodstock, VA	BLANK0000034546	71.3
WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	271.6
KDKA-TV	D25	DT	LIC	PITTSBURGH, PA	BLCDT20041004ACS	314.7
WAZT-CD	D26	DC	BL	WOODSTOCK, VA	DTVBL168449	150.8

Service area		Terrain-limited		IX-free		Percent IX	
33915.2	10,035,250	32354.7	9,717,546	32254.5	9,698,626	0.31	0.19

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WDPB D24 DT APP	60.2	3,499	60.2	3,499	0.19	0.04
WDCO-CD D24 DC CP	12.0	10,795	12.0	10,795	0.04	0.11
WWOR-TV D25 DT LIC	4.0	152	4.0	152	0.01	0.00
KDKA-TV D25 DT LIC	12.1	3,293	12.1	3,293	0.04	0.03
WAZT-CD D26 DC BL	11.9	1,181	11.9	1,181	0.04	0.01