

ENGINEERING STATEMENT
RE DTV BROADCAST ENGINEERING DATA
FOR DISPLACEMENT APPLICATION
FOR MODIFICATION OF DIGITAL TRANSLATOR
LICENSE TO CHANGE CHANNEL
ON BEHALF OF WITF, INC.
W33CR-D, CHAMBERSBURG, PENNSYLVANIA
CHANNEL 35 7.3 KW ND ERP 719.9 METERS RC/AMSL
FACILITY ID 73081
APRIL 2018

COHEN, DIPPELL AND EVERIST, P.C.
CONSULTING ENGINEERS
RADIO AND TELEVISION
WASHINGTON, D.C.

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington)
) ss
District of Columbia)

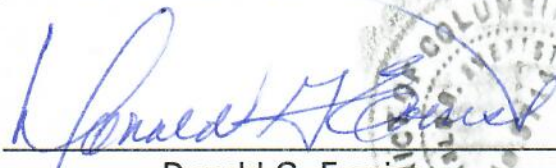
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President, Secretary and Treasurer of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1420 N Street, N.W., Suite One, Washington, D.C. 20005;

That his qualifications are a matter of record in the Federal Communications Commission;


That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.



Donald G. Everist
District of Columbia
Professional Engineer
Registration No. 5714

Subscribed and sworn to before me this 27th day of April, 2018.



Notary Public

My Commission Expires



COHEN, DIPPELL AND EVERIST, P.C.

DISPLACEMENT APPLICATION
W33CR-D, CHAMBERSBURG, PENNSYLVANIA

PAGE 1

This engineering statement has been prepared on behalf of WITF, Inc., licensee of WITF-DT, Harrisburg, Pennsylvania in support of a displacement application to change licensed channel 33 to channel 35. This displacement application is in accordance with the Special Displacement Window announced by the FCC in the Public Notice dated February 9, 2018.

Transmitter Site

The proposed DTV translator operation will be located on the same tower as now licensed.

The proposed Channel 35 antenna will be mounted on a pole extending from the deck of an existing observation tower with a total overall antenna height above ground of 28.0 meters (92 feet).

There is no change in overall height of the state-owned structure. The site is located at Blue Mountain (Clarks Knob) approximately 3.2 kilometers west of Upper Strasburg in Franklin County, Pennsylvania. Exhibit E-1 is a vertical sketch of the existing observation tower and the proposed translator transmitting antenna.

The geographic coordinates of the existing site are as follows:

North Latitude: 40° 03' 00"

West Longitude: 77° 44' 54"

NAD-27

North Latitude: 40° 03' 00.3"

West Longitude: 77° 44' 52.9"

NAD-83

COHEN, DIPPELL AND EVERIST, P.C.

DISPLACEMENT APPLICATION
W33CR-D, CHAMBERSBURG, PENNSYLVANIA

PAGE 2

Equipment Data

Transmitter:	Type-approved
Transmission Line:	Andrew, Type LDF5-50, 7/8 inch concentric copper length 30 feet
Antenna:	Scala, Model SL-8, non-directional antenna with 1.75° electrical beam tilt and no null fill
Out-of-Channel Emission Mask:	Full-Service

Power Data
(no ERP change)

Transmitter:	0.566 kW	-2.47 dBk
Transmission Line Loss: including connectors	93.5%	0.29 dB
Input Into Antenna:	0.529 kW	-2.76 dBk
Antenna Gain:	13.8	11.4 dB
Effective Radiated Power, Maximum	7.3 kW	8.63 dBk

Elevation Data

Vertical dimension of the Channel 35 antenna	6.1 meters 20 feet
Overall height above ground of the proposed antenna	28.0 meters 92.0 feet
Center of radiation of Channel 35 antenna above ground	25.1 meters 82.0 feet

COHEN, DIPPELL AND EVERIST, P.C.

DISPLACEMENT APPLICATION
W33CR-D, CHAMBERSBURG, PENNSYLVANIA

PAGE 3

Elevation of site above mean sea level	694.9 meters 2279.9 feet
Center of radiation of Channel 35 antenna above mean sea level	719.9 meters 2361.9 feet
Overall height above mean sea level of existing tower	722.9 meters 2371.7 feet

Note: Slight height differences may result due to conversion to metric.

As indicated above, the transmitter with typical power output of 0.566 kW will deliver 0.529 kW to the input of the antenna. The antenna, having a maximum power gain of 13.8 will produce a maximum ERP of 7.3 kW. A coverage map providing the normally protected contour of the proposed digital translator facility has been included as Exhibit E-4 of this report.

Other Broadcast Facilities

An analysis was completed to determine the presence of stations in the vicinity of the W33CR tower using the Consolidated Data Base Systems ("CDBS") data and within the Commission's Licensing and Management System ("LMS"). Within 0.2 km of the proposed site, there are no authorized FM radio or FM translator stations, no DTV and NTSC or TV translator television stations other than the licensed W33CR operation. There are no AM facilities within 3.22 km of the existing tower. Although no adverse technical effects are expected due to the proposed changes, the licensee will take measures to resolve any problems proven to be related to the changes proposed in this application.

Interference Analysis

A study of predicted interference caused by the proposed W33CR-D operation on Channel 35 digital operation has been performed using the Longley-Rice program for which the source data has been posted by the Commission on its website at fcc.gov/oet/tvstudy. Comparison of service/interference areas and population indicates this model closely matches the FCC's digital TVStudy 2.2 evaluation program. Best efforts have been made to use data and calculation identical to the FCC's program. The model employs the Longley-Rice propagation methodology and evaluates in grid cells of approximately 1 sq. km. Using one-second terrain data sampled approximately every 1.0 km at one-degree azimuth intervals with 2010 census centroids, all studies are based upon data in the Commission's current Licensing and Management System ("LMS") database update of the FCC's engineering database.

Contour Data

Utilizing the formula in Section 73.625(b)(2) for the effective heights along each radial, the depression angle A_h , for each azimuth has been calculated. The maximum radiation value has been used to calculate the ERP where the vertical radiation pattern field value at these angles is greater than 90% of the maximum.

Table I provides the distances calculated by TVStudy 2.2 along each radial spaced every ten degrees in azimuth to the predicted F(50,90) 51 dBu contour, the effective radiated power and the effective antenna heights. The predicted 51 dBu contour determined from these distances are shown on the attached map (Exhibit E-4).

Coverage

The average elevation data for 3.2 to 16.1 km along each radial are based upon the one-second NGDC profile data.

The F(50,90) DTV coverage contour has been computed using TVStudy 2.2 which has as its basis the propagation data for Channels 14-69, as published by the FCC in Figure 10b and Figure 10c, Section 73.699 of the FCC Rules and Regulations.

Table I includes the distances to the 51 dBu F(50,90) normally protected coverage contour, the average elevation 3.2 to 16.1 km, and the antenna height above average terrain along azimuth angles spaced every 10° starting from true north.

Radiofrequency Field LevelW33CR-D

Channel	35	Frequency: 596-602 MHz Range
		Total ERP = 7300 watts
		Polarization = Horizontal
		RCAGL-2 meters = 23.1 meters

The proposed Channel 35 proposes to use a Scala, Type SL-8 with a field factor less than 0.25 at any angle 20° to 90° below the horizontal in the vicinity of the existing tower site. A value of 0.25 will be used in the calculation.

$$S = \frac{33.4 (F^2) \text{ Total ERP}}{R^2}$$

Total ERP = 7300 watts (Horizontal Polarization)
R = 23.1 meters
F = 0.25 (field factor)

$$S = 29 \mu\text{W}/\text{cm}^2$$

The proposed Channel 35 contributes 29 $\mu\text{W}/\text{cm}^2$ at two meters above ground level. The limit for an uncontrolled environment is 399 $\mu\text{W}/\text{cm}^2$ and the limit for a controlled environment is 1997 $\mu\text{W}/\text{cm}^2$ for a station broadcasting in the 596-602 MHz range.

Therefore:

The proposed Channel 35 operation contributes less than 8% RFF for an uncontrolled environment two meters above ground in the vicinity of the existing tower site and less than 2% for the controlled environment.

Authorized personnel and rigging contractors will be alerted to the potential zone of high field levels on the tower, and if necessary, the proposed station will operate with reduced power or terminate the operation of the transmitter as appropriate when it is necessary for authorized personnel or contractors to perform work on the tower. Workers and the general public, therefore, will not be subjected to RFF levels in excess of the current FCC guidelines.

Environmental Assessment

An environmental assessment ("EA") is categorically excluded under Section 1.1306 of the FCC Rules and Regulations as the tower was constructed prior to the requirements specified in WT Docket No. 03-128 and the licensee indicates:

- (a)(1) The existing structure is not located in an officially designated wilderness area.
- (a)(2) The existing structure is not located in an officially designated wildlife preserve.
- (a)(3) The proposed facilities will not affect any listed threatened or endangered species or habitats.
- (a)(3)(ii) The proposed facilities will not jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats.

COHEN, DIPPELL AND EVERIST, P.C.

DISPLACEMENT APPLICATION
W33CR-D, CHAMBERSBURG, PENNSYLVANIA

PAGE 7

- (a)(4) The proposed facilities located on a structure which was built prior to the adoption of WT Docket No. 03-128 and is grandfathered and has not affected any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The existing structure is not located near any known Indian religious sites.
- (a)(6) The existing structure is not located in a flood plain.
- (a)(7) The installation of the DTV facilities on an existing structure will not involve a significant change in surface features of the ground in the vicinity of the tower.
- (a)(8) It is not proposed to equip the structure with high intensity white lights unless required by the FAA.
- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines contained in OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A.

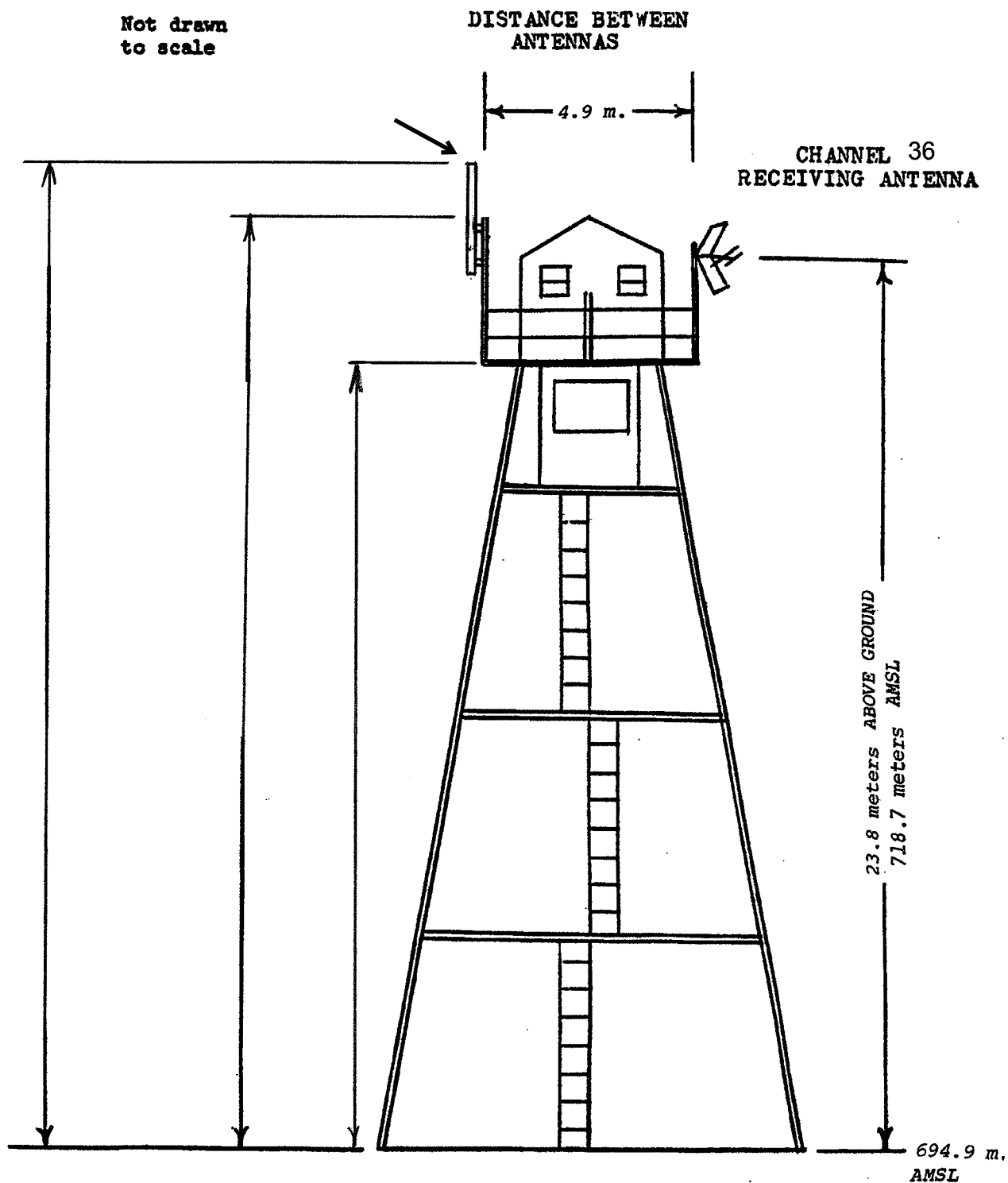
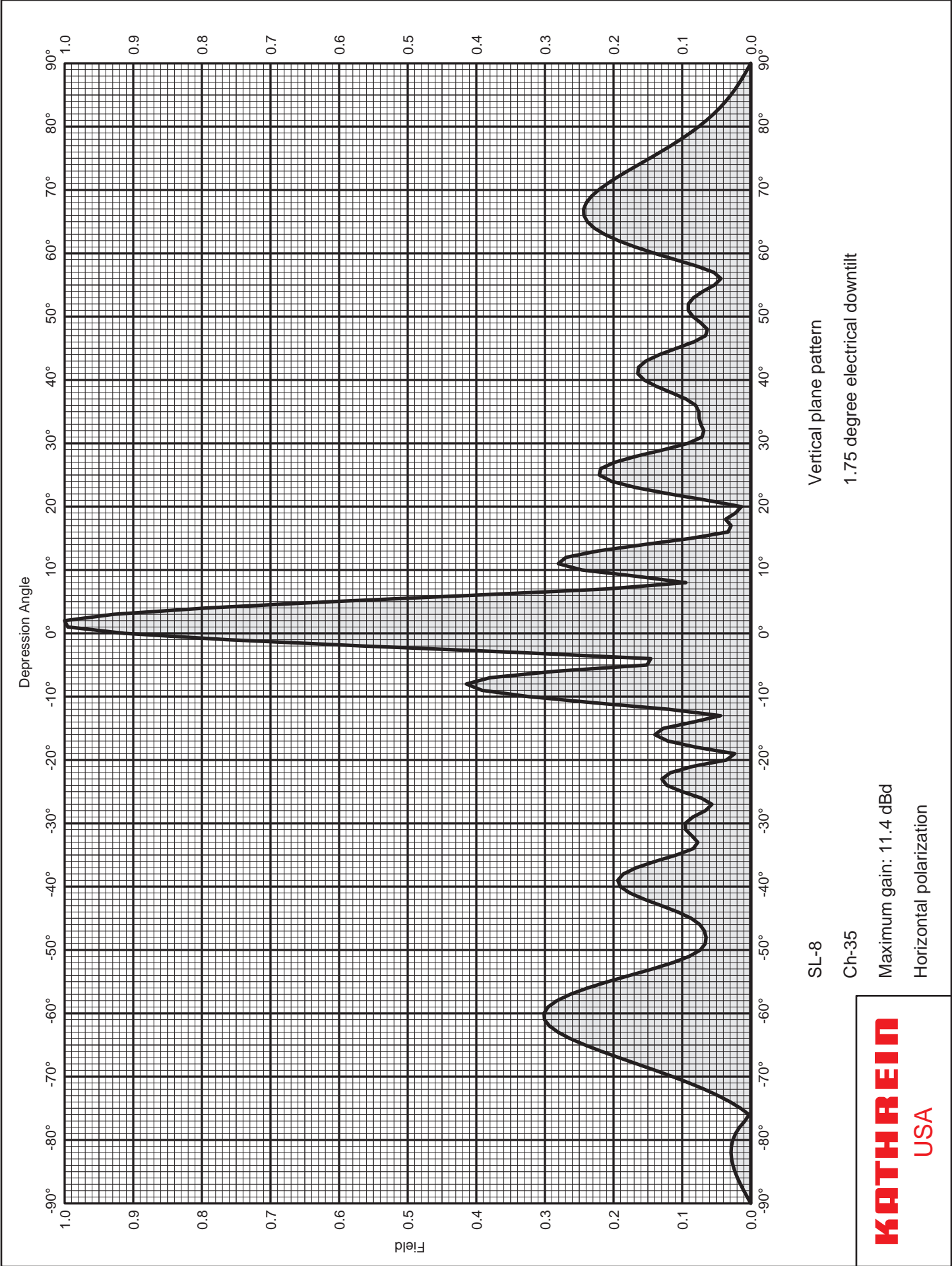


EXHIBIT E-1
VERTICAL SKETCH
FOR THE PROPOSED OPERATION OF
W33CR-D, CHAMBERSBURG, PENNSYLVANIA
OCTOBER 2009

EXHIBIT E-2

ANTENNA MANUFACTURER DATA



SL-8_Ch-35_H-pol_1.75dt_E1.txt

SL-8
Ch-35
Maximum gain: 11.4 dBd
Horizontal polarization
Vertical plane pattern
1.75 degree electrical downtilt

Angle	Rel.Field	Rel.dB	dBd	PwrMult
-----	-----	-----	-----	-----
-90	0.010	-40.00	-28.60	0.00
-89	0.010	-40.00	-28.60	0.00
-88	0.010	-39.82	-28.42	0.00
-87	0.015	-36.49	-25.09	0.00
-86	0.019	-34.29	-22.89	0.01
-85	0.023	-32.75	-21.35	0.01
-84	0.026	-31.71	-20.31	0.01
-83	0.028	-31.07	-19.67	0.01
-82	0.029	-30.81	-19.41	0.01
-81	0.028	-30.98	-19.58	0.01
-80	0.026	-31.65	-20.25	0.01
-79	0.022	-33.04	-21.64	0.01
-78	0.016	-35.66	-24.26	0.00
-77	0.010	-40.00	-28.60	0.00
-76	0.010	-40.00	-28.60	0.00
-75	0.015	-36.63	-25.23	0.00
-74	0.030	-30.49	-19.09	0.01
-73	0.048	-26.46	-15.06	0.03
-72	0.068	-23.41	-12.01	0.06
-71	0.090	-20.94	-9.54	0.11
-70	0.114	-18.88	-7.48	0.18
-69	0.139	-17.12	-5.72	0.27
-68	0.166	-15.62	-4.22	0.38
-67	0.192	-14.33	-2.93	0.51
-66	0.218	-13.24	-1.84	0.65
-65	0.242	-12.34	-0.94	0.81
-64	0.263	-11.60	-0.20	0.95
-63	0.281	-11.04	0.36	1.09
-62	0.293	-10.65	0.75	1.19
-61	0.301	-10.44	0.96	1.25
-60	0.301	-10.42	0.98	1.25
-59	0.295	-10.59	0.81	1.21
-58	0.282	-10.98	0.42	1.10
-57	0.263	-11.60	-0.20	0.95
-56	0.238	-12.47	-1.07	0.78

SL-8_Ch-35_H-pol_1.75dt_El.txt

-55	0.208	-13.63	-2.23	0.60
-54	0.176	-15.09	-3.69	0.43
-53	0.144	-16.86	-5.46	0.28
-52	0.114	-18.89	-7.49	0.18
-51	0.089	-20.97	-9.57	0.11
-50	0.074	-22.67	-11.27	0.07
-49	0.066	-23.57	-12.17	0.06
-48	0.065	-23.72	-12.32	0.06
-47	0.068	-23.40	-12.00	0.06
-46	0.074	-22.60	-11.20	0.08
-45	0.087	-21.23	-9.83	0.10
-44	0.106	-19.47	-8.07	0.16
-43	0.130	-17.70	-6.30	0.23
-42	0.155	-16.19	-4.79	0.33
-41	0.176	-15.08	-3.68	0.43
-40	0.190	-14.42	-3.02	0.50
-39	0.194	-14.25	-2.85	0.52
-38	0.186	-14.62	-3.22	0.48
-37	0.167	-15.56	-4.16	0.38
-36	0.139	-17.14	-5.74	0.27
-35	0.108	-19.31	-7.91	0.16
-34	0.084	-21.52	-10.12	0.10
-33	0.077	-22.25	-10.85	0.08
-32	0.086	-21.35	-9.95	0.10
-31	0.095	-20.45	-9.05	0.12
-30	0.095	-20.41	-9.01	0.13
-29	0.084	-21.48	-10.08	0.10
-28	0.066	-23.59	-12.19	0.06
-27	0.057	-24.94	-13.54	0.04
-26	0.072	-22.82	-11.42	0.07
-25	0.100	-19.99	-8.59	0.14
-24	0.122	-18.24	-6.84	0.21
-23	0.130	-17.75	-6.35	0.23
-22	0.117	-18.64	-7.24	0.19
-21	0.084	-21.50	-10.10	0.10
-20	0.035	-29.03	-17.63	0.02
-19	0.023	-32.62	-21.22	0.01
-18	0.079	-22.07	-10.67	0.09
-17	0.121	-18.33	-6.93	0.20
-16	0.140	-17.09	-5.69	0.27
-15	0.127	-17.90	-6.50	0.22
-14	0.084	-21.56	-10.16	0.10
-13	0.044	-27.11	-15.71	0.03
-12	0.119	-18.48	-7.08	0.20
-11	0.225	-12.95	-1.55	0.70
-10	0.323	-9.82	1.58	1.44
-9	0.392	-8.14	3.26	2.12
-8	0.414	-7.65	3.75	2.37

SL-8_Ch-35_H-pol_1.75dt_El.txt

-7	0.380	-8.41	2.99	1.99
-6	0.285	-10.89	0.51	1.12
-5	0.151	-16.41	-5.01	0.32
-4	0.146	-16.73	-5.33	0.29
-3	0.344	-9.27	2.13	1.63
-2	0.565	-4.96	6.44	4.41
-1	0.764	-2.34	9.06	8.05
0	0.913	-0.79	10.61	11.51
1	0.995	-0.04	11.36	13.68
2	1.000	0.00	11.40	13.80
3	0.929	-0.64	10.76	11.91
4	0.793	-2.01	9.39	8.69
5	0.611	-4.28	7.12	5.15
6	0.407	-7.81	3.59	2.29
7	0.211	-13.51	-2.11	0.62
8	0.095	-20.48	-9.08	0.12
9	0.166	-15.59	-4.19	0.38
10	0.246	-12.18	-0.78	0.84
11	0.281	-11.04	0.36	1.09
12	0.269	-11.40	0.00	1.00
13	0.223	-13.04	-1.64	0.69
14	0.157	-16.10	-4.70	0.34
15	0.087	-21.19	-9.79	0.10
16	0.033	-29.58	-18.18	0.02
17	0.029	-30.84	-19.44	0.01
18	0.037	-28.69	-17.29	0.02
19	0.022	-33.04	-21.64	0.01
20	0.014	-37.29	-25.89	0.00
21	0.064	-23.94	-12.54	0.06
22	0.118	-18.58	-7.18	0.19
23	0.167	-15.55	-4.15	0.38
24	0.203	-13.85	-2.45	0.57
25	0.221	-13.12	-1.72	0.67
26	0.219	-13.20	-1.80	0.66
27	0.199	-14.04	-2.64	0.54
28	0.165	-15.63	-4.23	0.38
29	0.126	-17.96	-6.56	0.22
30	0.091	-20.78	-9.38	0.12
31	0.071	-22.97	-11.57	0.07
32	0.068	-23.29	-11.89	0.06
33	0.073	-22.74	-11.34	0.07
34	0.075	-22.46	-11.06	0.08
35	0.076	-22.42	-11.02	0.08
36	0.080	-21.89	-10.49	0.09
37	0.094	-20.50	-9.10	0.12
38	0.116	-18.74	-7.34	0.18
39	0.138	-17.22	-5.82	0.26
40	0.155	-16.17	-4.77	0.33

SL-8_Ch-35_H-pol_1.75dt_El.txt

41	0.165	-15.67	-4.27	0.37
42	0.164	-15.72	-4.32	0.37
43	0.153	-16.32	-4.92	0.32
44	0.133	-17.51	-6.11	0.24
45	0.108	-19.30	-7.90	0.16
46	0.083	-21.58	-10.18	0.10
47	0.066	-23.63	-12.23	0.06
48	0.063	-23.98	-12.58	0.06
49	0.073	-22.77	-11.37	0.07
50	0.084	-21.50	-10.10	0.10
51	0.091	-20.81	-9.41	0.11
52	0.091	-20.82	-9.42	0.11
53	0.083	-21.58	-10.18	0.10
54	0.070	-23.16	-11.76	0.07
55	0.053	-25.52	-14.12	0.04
56	0.044	-27.23	-15.83	0.03
57	0.054	-25.36	-13.96	0.04
58	0.079	-22.01	-10.61	0.09
59	0.110	-19.19	-7.79	0.17
60	0.140	-17.07	-5.67	0.27
61	0.168	-15.47	-4.07	0.39
62	0.193	-14.29	-2.89	0.51
63	0.213	-13.43	-2.03	0.63
64	0.228	-12.83	-1.43	0.72
65	0.238	-12.46	-1.06	0.78
66	0.243	-12.28	-0.88	0.82
67	0.244	-12.27	-0.87	0.82
68	0.240	-12.41	-1.01	0.79
69	0.232	-12.68	-1.28	0.74
70	0.222	-13.08	-1.68	0.68
71	0.209	-13.59	-2.19	0.60
72	0.195	-14.20	-2.80	0.52
73	0.179	-14.92	-3.52	0.44
74	0.163	-15.73	-4.33	0.37
75	0.147	-16.63	-5.23	0.30
76	0.132	-17.61	-6.21	0.24
77	0.116	-18.68	-7.28	0.19
78	0.102	-19.83	-8.43	0.14
79	0.088	-21.07	-9.67	0.11
80	0.076	-22.39	-10.99	0.08
81	0.065	-23.80	-12.40	0.06
82	0.054	-25.32	-13.92	0.04
83	0.045	-26.96	-15.56	0.03
84	0.037	-28.75	-17.35	0.02
85	0.029	-30.74	-19.34	0.01
86	0.022	-33.03	-21.63	0.01
87	0.016	-35.83	-24.43	0.00
88	0.010	-39.58	-28.18	0.00

	SL-8_Ch-35_H-pol_1.75dt_E1.txt			
89	0.010	-40.00	-28.60	0.00
90	0.010	-40.00	-28.60	0.00

EXHIBIT E-3

ALLOCATION STUDY

tvstudy v2.2.5 (4uoc83)
 Database: localhost, Study: W33CR-Channel35-Full13, Model: Longley-Rice
 Start: 2018.04.19 18:52:21

Study created: 2018.04.19 18:52:21

Study build station data: LMS TV 2018-04-18

Proposal: W33CR-D D35 LD LIC CHAMBERSBURG, PA
 File number: Channel35-Full12
 Facility ID: 73081
 Station data: User record
 Record ID: 199
 Country: U.S.

Build options:
 Protect pre-transition records not on baseline channel

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	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK0000034340	136.0 km
No	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000034931	213.4
No	WIVT	D34	DT	LIC	BINGHAMTON, NY	BLCDT20090819AGR	269.9
Yes	WJAC-TV	D34	DT	LIC	JOHNSTOWN, PA	BLCDT20051123AKN	110.7
No	WCAU	D34	DT	LIC	PHILADELPHIA, PA	BLCDT20090914AAX	213.7
No	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000034421	229.4
Yes	WPXW-TV	D34	DT	LIC	MANASSAS, VA	BLCDT20090612AIZ	135.0
No	WNPB-TV	D34	DT	CP	MORGANTOWN, WV	BLANK0000034624	176.3
No	WVIT	D35	DT	LIC	NEW BRITAIN, CT	BLANK0000048456	452.0
Yes	WDCA	D35	DT	LIC	WASHINGTON, DC	BLCDT20070411AAH	134.3
No	W35CS-D	D35	LD	LIC	OCEAN CITY, MD	BLDTL20090803ADY	264.2
No	W35DF-D	D35	LD	CP	SALISBURY, MD	BNPDTL20100204AAW	260.0
No	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000034541	324.7
No	W35DK-D	D35z	LD	LIC	SUSSEX, NJ	BLANK0000016552	296.9
Yes	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK0000028618	239.2

Yes	WENY-TV	D35	DT	APP	ELMIRA, NY	BLANK0000034793	239.2
No	WNYX-LD	D35	LD	LIC	NEW YORK, NY	BLDTL20090908ACQ	331.2
No	WWLF-LP	N35z	TX	LIC	Syracuse, NY	BLTTA20050922ACH	359.3
No	WOUC-TV	D35	DT	LIC	CAMBRIDGE, OH	BLEDT20050427AAB	301.1
No	WVIZ	D35	DT	CP	CLEVELAND, OH	BLANK0000034584	363.7
No	W45BT-D	D35	LD	APP	BROOKVILLE, PA	BLANK0000050401	165.6
No	NEW	D35	LD	APP	ERIE, PA	BNPDTL20090825BID	294.6
Yes	WYLN-LP	D35+	DC	LIC	HAZLETON, PA	BLANK0000001520	182.7
Yes	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	110.7
No	WFPA-CD	D35	DC	CP	PHILADELPHIA, PA	BLANK0000034670	213.7
Yes	WPPT	D35	DT	LIC	PHILADELPHIA, PA	BLEDT20091222ARE	213.7
No	WAHU-CD	D35	DC	CP	CHARLOTTESVILLE, VA	BLANK0000034100	238.1
No	WUDJ-LD	D35	LD	LIC	CROZET, VA	BLANK0000014021	263.9
No	WUDJ-LD	D35	LD	APP	CROZET, VA	BLANK0000036595	235.1
Yes	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	135.0
No	WTAP-TV	D35	DT	CP	PARKERSBURG, WV	BLANK0000025208	335.6
No	W35DI-D	D35	LD	CP	ROANOKE, WV	BNPDTL20100514AAS	267.4
No	WTTG	D36	DT	LIC	WASHINGTON, DC	BLCDT20080507AAA	134.3
No	WTTG	D36	DT	APP	WASHINGTON, DC	BLANK0000035718	132.7
No	WGPT	D36	DT	LIC	OAKLAND, MD	BLEDT20110509ACO	150.4
No	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLANK0000035355	275.4
No	WENY-TV	D36	DT	LIC	ELMIRA, NY	BLCDT20090730AAH	239.2
No	WYTV	D36	DT	LIC	YOUNGSTOWN, OH	BLCDT20100422ABQ	268.5
No	W47AO-D	D36-	DC	CP	BERWICK, PA	BLANK0000034699	167.6
Yes	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK0000035782	81.5
Yes	WITF-TV	D36	DT	LIC	HARRISBURG, PA	BLANK0000039358	81.5
No	W36BE-D	D36	LD	LIC	STATE COLLEGE, PA	BLDTT20091023AIW	75.2
No	WWLM-CD	D36	DC	CP	WASHINGTON, PA	BLANK0000027840	211.7
No	WSVF-CD	D36	DC	CP	HARRISONBURG, VA	BLANK0000034406	204.1
No	W42CK	N42+	TX	LIC	HAGERSTOWN, MD	BLTTL19991020AAP	48.9
No	W43BP	N43-	TX	LIC	CRESAPTOWN, MD	BLTT19981124JI	111.1
No	CHCJ-DT	D35	DT	LIC	HAMILTON, ON	BLANKCANADA174	394.7
No	CIII-DT-29D35		DT	LIC	SARNIAOIL SPRINGS, ON	BLANKCANADA217	473.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D35
Mask: Full Service
Latitude: 40 3 0.30 N (NAD83)
Longitude: 77 44 52.90 W
Height AMSL: 720.0 m
HAAT: 0.0 m
Peak ERP: 7.30 kW
Antenna: Omnidirectional
Elev Pattn: Generic

50.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	7.30 kW	363.6 m	55.1 km
45.0	7.30	453.4	58.8
90.0	7.30	515.6	60.8
135.0	7.30	508.3	60.5
180.0	7.30	525.0	61.0
225.0	7.30	172.2	44.8
270.0	7.30	376.0	55.6
315.0	7.30	375.8	55.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 411 m

Distance to Canadian border: 324.2 km

Distance to Mexican border: 2365.7 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 140.8 degrees Distance: 126.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 279.2 degrees Distance: 2326.7 km

Study cell size: 1.00 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 BLANK0000034340 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK0000034340	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	136.0 km
	WHUT-TV	D33	DT	APP	WASHINGTON, DC	BLANK0000035679	1.2
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000034931	200.0
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000034356	327.7
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000034421	300.3
	WSLS-TV	D34	DT	CP	ROANOKE, VA	BLANK0000029619	330.7
	WNPB-TV	D34	DT	CP	MORGANTOWN, WV	BLANK0000034624	245.3
	WAHU-CD	D35	DC	CP	CHARLOTTESVILLE, VA	BLANK0000034100	161.6
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	1.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
25115.9	8,189,633	24260.9	8,143,362	23881.1	8,103,958	23881.1	8,103,958	0.00	0.00

Undesired				Total IX	Unique IX, before		Unique IX, after	
W33CR-D	D35	LD	LIC	4.0	110		0.0	0
WHUT-TV	D33	DT	APP	12.9	767	0.0	0	0
WPPX-TV	D34	DT	CP	47.8	4,901	21.9	856	856
WPXN-TV	D34	DT	CP	5.9	570	2.0	317	317
WSWB	D34	DT	CP	8.9	2,163	1.0	16	16
WSLS-TV	D34	DT	CP	37.9	1,568	16.0	1,169	1,169
WNPB-TV	D34	DT	CP	200.4	21,017	175.6	18,544	18,434
WAHU-CD	D35	DC	CP	2.0	0	2.0	0	0
WPXW-TV	D35	DT	CP	130.6	15,848	107.7	12,525	12,525

 Interference to BLANK0000034340 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK0000034340	

Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	136.0 km
	WHUT-TV	D33	DT	LIC	WASHINGTON, DC	BLEDT20071018AIJ	1.2
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000034931	200.0
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000034356	327.7
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000034421	300.3
	WSLS-TV	D34	DT	CP	ROANOKE, VA	BLANK0000029619	330.7
	WNPB-TV	D34	DT	CP	MORGANTOWN, WV	BLANK0000034624	245.3
	WAHU-CD	D35	DC	CP	CHARLOTTESVILLE, VA	BLANK0000034100	161.6
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	1.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
25115.9 8,189,633	24260.9 8,143,362	23881.1 8,103,958	23881.1 8,103,958	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC	4.0	110		0.0 0
WHUT-TV D33 DT LIC	5.0	55	0.0 0	0.0 0
WPPX-TV D34 DT CP	47.8	4,901	21.9 856	21.9 856
WPXN-TV D34 DT CP	5.9	570	2.0 317	2.0 317
WSWB D34 DT CP	8.9	2,163	1.0 16	1.0 16
WSLS-TV D34 DT CP	37.9	1,568	16.0 1,169	16.0 1,169
WNPB-TV D34 DT CP	200.4	21,017	175.6 18,544	171.6 18,434
WAHU-CD D35 DC CP	2.0	0	2.0 0	2.0 0
WPXW-TV D35 DT CP	130.6	15,848	112.7 13,217	112.7 13,217

Interference to BLANK0000034340 CP scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK0000034340	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	136.0 km
	WHUT-TV	D33	DT	CP	WASHINGTON, DC	BPEDT20120627AAD	1.2
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000034931	200.0
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000034356	327.7
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000034421	300.3
	WSLS-TV	D34	DT	CP	ROANOKE, VA	BLANK0000029619	330.7
	WNPB-TV	D34	DT	CP	MORGANTOWN, WV	BLANK0000034624	245.3
	WAHU-CD	D35	DC	CP	CHARLOTTESVILLE, VA	BLANK0000034100	161.6
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	1.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
25115.9 8,189,633	24260.9 8,143,362	23881.1 8,103,958	23881.1 8,103,958	0.00 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
W33CR-D D35 LD LIC	4.0 110	0.0 0	0.0 0	
WHUT-TV D33 DT CP	77.7 13,395	0.0 0	0.0 0	
WPPX-TV D34 DT CP	47.8 4,901	21.9 856	21.9 856	
WPXN-TV D34 DT CP	5.9 570	2.0 317	2.0 317	
WSWB D34 DT CP	8.9 2,163	1.0 16	1.0 16	
WSLS-TV D34 DT CP	37.9 1,568	16.0 1,169	16.0 1,169	
WNPB-TV D34 DT CP	200.4 21,017	175.6 18,544	171.6 18,434	
WAHU-CD D35 DC CP	2.0 0	2.0 0	2.0 0	
WPXW-TV D35 DT CP	130.6 15,848	50.9 1,476	50.9 1,476	

Interference to BLCDDT20051123AKN LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WJAC-TV	D34	DT	LIC	JOHNSTOWN, PA	BLCDDT20051123AKN	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	110.7 km
	WNPB-TV	D33	DT	LIC	MORGANTOWN, WV	BLEDDT20121205ACJ	100.2
	WIVT	D34	DT	LIC	BINGHAMTON, NY	BLCDDT20090819AGR	315.9
	WVTT-CD	D34	DC	LIC	OLEAN, NY	BLDDTA20141217ABD	233.1
	WQHS-DT	D34	DT	LIC	CLEVELAND, OH	BLCDDT20031030AGJ	254.7
	WCAU	D34	DT	LIC	PHILADELPHIA, PA	BLCDDT20090914AAX	320.1
	WPXW-TV	D34	DT	LIC	MANASSAS, VA	BLCDDT20090612AIZ	226.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29260.5 2,227,663	24953.2 1,950,109	24306.2 1,868,308	24273.0 1,867,938	0.14 0.02
Undesired	Total IX	Unique IX, before	Unique IX, after	
W33CR-D D35 LD LIC	60.2 527	33.1 370	33.1 370	
WNPB-TV D33 DT LIC	28.0 747	18.0 242	18.0 242	
WIVT D34 DT LIC	32.9 770	21.9 686	21.9 686	
WVTT-CD D34 DC LIC	5.0 20	0.0 0	0.0 0	
WQHS-DT D34 DT LIC	240.6 59,396	214.5 56,020	214.5 56,020	
WCAU D34 DT LIC	68.1 970	24.0 456	16.9 406	
WPXW-TV D34 DT LIC	357.7 24,364	292.5 20,019	278.5 19,945	

Interference to BLCDT20090612AIZ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPXW-TV	D34	DT	LIC	MANASSAS, VA	BLCDT20090612AIZ	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	135.0 km
	WHUT-TV	D33	DT	APP	WASHINGTON, DC	BLANK0000035679	0.0
	WIVT	D34	DT	LIC	BINGHAMTON, NY	BLCDT20090819AGR	358.8
	WJAC-TV	D34	DT	LIC	JOHNSTOWN, PA	BLCDT20051123AKN	226.8
	WCAU	D34	DT	LIC	PHILADELPHIA, PA	BLCDT20090914AAX	199.3
	WDCA	D35	DT	LIC	WASHINGTON, DC	BLCDT20070411AAH	0.7

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	24147.8	8,092,088	23286.7	8,043,024	22642.0	7,969,848	22642.0	7,969,848	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC	1.0	0	0.0	0
WIVT D34 DT LIC	1.0	169	0.0	0
WJAC-TV D34 DT LIC	172.9	21,186	119.1	17,570
WCAU D34 DT LIC	500.6	50,620	438.9	44,835
WDCA D35 DT LIC	32.9	7,155	24.9	4,986

Interference to BLCDT20070411AAH LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDCA	D35	DT	LIC	WASHINGTON, DC	BLCDT20070411AAH	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	134.3 km
	WPXW-TV	D34	DT	LIC	MANASSAS, VA	BLCDT20090612AIZ	0.7
	WPPT	D35	DT	LIC	PHILADELPHIA, PA	BLEDT20091222ARE	199.1
	WTTG	D36	DT	LIC	WASHINGTON, DC	BLCDT20080507AAA	0.0
	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK0000035782	155.5

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	20887.6	7,869,251	20237.4	7,826,417	19876.3	7,788,454	19657.2	7,761,274	1.10 0.35

Undesired		Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC	274.5	29,622	219.1	27,180

WPXW-TV D34 DT LIC	116.5	20,417	97.7	17,937	92.7	17,427
WPPT D35 DT LIC	263.4	20,026	244.6	17,546	196.0	15,705

Interference to BLCDT20070411AAH LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDCA	D35	DT	LIC	WASHINGTON, DC	BLCDT20070411AAH	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	134.3 km
	WPXW-TV	D34	DT	LIC	MANASSAS, VA	BLCDT20090612AIZ	0.7
	WPPT	D35	DT	LIC	PHILADELPHIA, PA	BLEDT20091222ARE	199.1
	WTTG	D36	DT	APP	WASHINGTON, DC	BLANK0000035718	2.1
	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK0000035782	155.5
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	20887.6	7,869,251	20237.4	7,826,417	19802.7	7,774,085	19590.5 7,747,000 1.07 0.35

Undesired			Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC	274.5	29,622	212.1	27,085	
WPXW-TV D34 DT LIC	116.5	20,417	68.8	14,934	
WPPT D35 DT LIC	263.4	20,026	228.6	16,975	
WTTG D36 DT APP	125.4	18,072	73.6	14,369	
			66.7	14,274	

Interference to BLANK0000028618 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK0000028618	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	239.2 km
	WKBW-TV	D34	DT	CP	BUFFALO, NY	BLANK0000034829	138.1
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000034421	136.6
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000034541	300.7
	WNYF-CD	D35	DC	LIC	WATERTOWN, NY	BLDTL20090924ABW	229.3
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	253.1
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	354.8
	WUTV	D36	DT	CP	BUFFALO, NY	BLANK0000034378	139.5
	CHCJ-DT	D35	DT	LIC	HAMILTON, ON	BLANKCANADA174	257.5
	CFTO-DT-54D35	D35	DT	LIC	PETERBOROUGH, ON	BLANKCANADA214	281.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
17603.3 541,919	14884.6 423,600	14420.0 418,242	14420.0 418,242	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC	2.0 0	0.0 0	0.0 0
WKBW-TV D34 DT CP	30.1 296	6.0 2	6.0 2
WSWB D34 DT CP	17.0 397	13.0 251	13.0 251
WNJU D35 DT CP	48.2 579	31.1 369	31.1 369
WNYF-CD D35 DC LIC	13.1 174	8.1 78	8.1 78
WJAC-TV D35 DT CP	362.2 4,232	309.0 3,756	309.0 3,756
WPXW-TV D35 DT CP	18.1 90	2.0 0	2.0 0
WUTV D36 DT CP	40.1 284	12.1 53	12.1 53
CHCJ-DT D35 DT LIC	33.1 373	9.0 109	9.0 109
CFTO-DT-54 D35 DT LIC	3.0 0	0.0 0	0.0 0

Interference to BLANK0000034793 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WENY-TV	D35	DT	APP	ELMIRA, NY	BLANK0000034793	

Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel135-Full12	239.2 km
	WKBW-TV	D34	DT	CP	BUFFALO, NY	BLANK0000034829	138.1
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000034421	136.6
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000034541	300.7
	WNYF-CD	D35	DC	LIC	WATERTOWN, NY	BLDTL20090924ABW	229.3
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	253.1
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	354.8
	WUTV	D36	DT	CP	BUFFALO, NY	BLANK0000034378	139.5
	WSPX-TV	D36	DT	CP	SYRACUSE, NY	BLANK0000029579	154.1
	CHCJ-DT	D35	DT	LIC	HAMILTON, ON	BLANKCANADA174	257.5
	CFTO-DT-54D35	DT	LIC		PETERBOROUGH, ON	BLANKCANADA214	281.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
21358.0 656,925	18282.9 518,232	17782.7 513,006	17781.7 513,006	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC	4.0 0	1.0 0	1.0 0
WKBW-TV D34 DT CP	69.6 574	9.1 99	9.1 99

WSWB D34 DT CP	17.0	292	13.0	168	13.0	168
WNJU D35 DT CP	51.3	636	37.2	456	37.2	456
WNYF-CD D35 DC LIC	37.3	747	29.2	470	29.2	470
WJAC-TV D35 DT CP	305.0	2,348	253.7	1,957	253.7	1,957
WPXW-TV D35 DT CP	13.1	24	4.0	0	3.0	0
WUTV D36 DT CP	67.5	540	19.0	163	19.0	163
WSPX-TV D36 DT CP	27.2	411	26.2	411	26.2	411
CHCJ-DT D35 DT LIC	34.3	795	7.1	415	7.1	415
CFTO-DT-54 D35 DT LIC	10.1	159	3.0	48	3.0	48

Interference to BLANK0000001520 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WYLN-LP	D35+	DC	LIC	HAZLETON, PA	BLANK0000001520			
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	182.7 km		
	WVIT	D35	DT	LIC	NEW BRITAIN, CT	BLANK0000048456	273.1		
	WDCA	D35	DT	LIC	WASHINGTON, DC	BLCDT20070411AAH	243.5		
	WPPT	D35	DT	LIC	PHILADELPHIA, PA	BLEDT20091222ARE	119.7		
	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK0000035782	103.6		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
3442.1		400,042		2276.8		160,378	2171.9		
						155,151	2170.9		
						155,151	0.05		
							0.00		
Undesired				Total IX	Unique IX, before	Unique IX, after			
W33CR-D D35 LD LIC				2.0	0	1.0	0		
WVIT D35 DT LIC				1.0	0	1.0	0		
WDCA D35 DT LIC				12.1	2,408	8.1	2,408		
WPPT D35 DT LIC				95.8	2,819	91.8	2,819		

Interference to BLANK0000027312 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	110.7 km
	WNPB-TV	D34	DT	CP	MORGANTOWN, WV	BLANK0000034624	100.2
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK0000028618	253.1

WVIZ	D35	DT	CP	CLEVELAND, OH	BLANK00000034584	253.9
WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK00000034923	226.8
WTAP-TV	D35	DT	CP	PARKERSBURG, WV	BLANK00000025208	247.9
WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK00000035782	179.0
WWLM-CD	D36	DC	CP	WASHINGTON, PA	BLANK00000027840	107.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29163.5 2,212,117	24820.2 1,927,184	23943.7 1,811,539	23379.6 1,802,588	2.36 0.49

Undesired	Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC	842.8 23,421	564.1 8,951	
WNPB-TV D34 DT CP	128.3 4,704	61.0 1,224	
WENY-TV D35 DT CP	22.1 146	7.0 20	
WVIZ D35 DT CP	156.4 50,921	51.2 17,507	
WPXW-TV D35 DT CP	447.7 26,943	402.8 8,333	
WTAP-TV D35 DT CP	323.4 86,052	178.1 49,870	
WITF-TV D36 DT APP	1.0 0	1.0 0	
WWLM-CD D36 DC CP	3.0 0	0.0 0	

Interference to BLANK0000027312 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	110.7 km
	WNPB-TV	D34	DT	CP	MORGANTOWN, WV	BLANK00000034624	100.2
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK00000028618	253.1
	WVIZ	D35	DT	CP	CLEVELAND, OH	BLANK00000034584	253.9
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK00000034923	226.8
	WTAP-TV	D35	DT	CP	PARKERSBURG, WV	BLANK00000025208	247.9
	WWLM-CD	D36	DC	CP	WASHINGTON, PA	BLANK00000027840	107.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29163.5 2,212,117	24820.2 1,927,184	23944.7 1,811,539	23379.6 1,802,588	2.36 0.49

Undesired	Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC	842.8 23,421	565.1 8,951	
WNPB-TV D34 DT CP	128.3 4,704	61.0 1,224	
WENY-TV D35 DT CP	22.1 146	7.0 20	

WVIZ D35 DT CP	156.4	50,921	51.2	17,507	48.2	16,333
WPXW-TV D35 DT CP	447.7	26,943	402.8	8,333	170.2	4,742
WTAP-TV D35 DT CP	323.4	86,052	178.1	49,870	169.1	49,334
WWLM-CD D36 DC CP	3.0	0	0.0	0	0.0	0

Interference to BLANK0000027312 CP scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	110.7 km
	WNPB-TV	D34	DT	CP	MORGANTOWN, WV	BLANK0000034624	100.2
	WENY-TV	D35	DT	APP	ELMIRA, NY	BLANK0000034793	253.1
	WVIZ	D35	DT	CP	CLEVELAND, OH	BLANK0000034584	253.9
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	226.8
	WTAP-TV	D35	DT	CP	PARKERSBURG, WV	BLANK0000025208	247.9
	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK0000035782	179.0
	WWLM-CD	D36	DC	CP	WASHINGTON, PA	BLANK0000027840	107.9
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	29163.5	2,212,117	24820.2	1,927,184	23913.7	1,802,211	2.33 0.49

Undesired	Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC	842.8	23,421	558.1 8,834
WNPB-TV D34 DT CP	128.3	4,704	61.0 1,224
WENY-TV D35 DT APP	71.1	2,021	36.9 514
WVIZ D35 DT CP	156.4	50,921	49.2 17,339
WPXW-TV D35 DT CP	447.7	26,943	391.8 8,198
WTAP-TV D35 DT CP	323.4	86,052	175.1 48,822
WITF-TV D36 DT APP	1.0	0	1.0 0
WWLM-CD D36 DC CP	3.0	0	0.0 0

Interference to BLANK0000027312 CP scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	110.7 km

WNPB-TV	D34	DT	CP	MORGANTOWN, WV	BLANK00000034624	100.2
WENY-TV	D35	DT	APP	ELMIRA, NY	BLANK00000034793	253.1
WVIZ	D35	DT	CP	CLEVELAND, OH	BLANK00000034584	253.9
WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK00000034923	226.8
WTAP-TV	D35	DT	CP	PARKERSBURG, WV	BLANK00000025208	247.9
WWLM-CD	D36	DC	CP	WASHINGTON, PA	BLANK00000027840	107.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
29163.5	2,212,117	24820.2	1,927,184	23914.8	1,811,045	23355.6	1,802,211	2.34	0.49

Undesired		Total IX		Unique IX, before		Unique IX, after	
W33CR-D	D35 LD LIC	842.8	23,421			559.1	8,834
WNPB-TV	D34 DT CP	128.3	4,704	61.0	1,224	58.0	1,224
WENY-TV	D35 DT APP	71.1	2,021	36.9	514	28.9	397
WVIZ	D35 DT CP	156.4	50,921	49.2	17,339	46.2	16,165
WPXW-TV	D35 DT CP	447.7	26,943	391.8	8,198	170.2	4,742
WTAP-TV	D35 DT CP	323.4	86,052	175.1	48,822	166.1	48,286
WWLM-CD	D36 DC CP	3.0	0	0.0	0	0.0	0

Interference to BLEDT20091222ARE LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPPT	D35	DT	LIC	PHILADELPHIA, PA	BLEDT20091222ARE	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	213.7 km
	WCAU	D34	DT	LIC	PHILADELPHIA, PA	BLCDDT20090914AAX	0.0
	WVIT	D35	DT	LIC	NEW BRITAIN, CT	BLANK00000048456	273.5
	WDCA	D35	DT	LIC	WASHINGTON, DC	BLCDDT20070411AAH	199.1
	WYLN-LP	D35+	DC	LIC	HAZLETON, PA	BLANK00000001520	119.7
	WNJU	D36	DT	LIC	LINDEN, NJ	BLANK00000049867	131.8
	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLANK00000035355	109.6
	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK00000035782	142.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27316.9	9,716,779	26569.1	9,552,108	25348.2	9,343,572	25255.3	9,330,762	0.37	0.14

Undesired		Total IX		Unique IX, before		Unique IX, after	
W33CR-D	D35 LD LIC	267.2	45,079			92.9	12,810
WCAU	D34 DT LIC	17.0	2,018	14.0	1,184	14.0	1,184

WVIT D35 DT LIC	57.8	16,725	16.9	2,373	16.9	2,373
WDCA D35 DT LIC	749.5	126,930	642.4	89,037	562.3	76,668
WYLN-LP D35+ DC LIC	86.1	20,537	34.0	7,397	19.0	6,476
WNJU D36 DT LIC	75.9	51,783	57.9	42,856	57.9	42,856
WMGM-TV D36 DT LIC	305.5	19,090	305.5	19,090	305.5	19,090
WITF-TV D36 DT APP	83.3	20,284	24.1	4,393	9.0	1,022

Interference to BLEDT20091222ARE LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPPT	D35	DT	LIC	PHILADELPHIA, PA	BLEDT20091222ARE	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	213.7 km
	WCAU	D34	DT	LIC	PHILADELPHIA, PA	BLC DT20090914AAX	0.0
	WVIT	D35	DT	LIC	NEW BRITAIN, CT	BLANK0000048456	273.5
	WDCA	D35	DT	LIC	WASHINGTON, DC	BLC DT20070411AAH	199.1
	WYLN-LP	D35+	DC	LIC	HAZLETON, PA	BLANK0000001520	119.7
	WNJU	D36	DT	LIC	LINDEN, NJ	BLANK0000049867	131.8
	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLANK0000035355	109.6
	WITF-TV	D36	DT	LIC	HARRISBURG, PA	BLANK0000039358	142.7

	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	27316.9	9,716,779	26569.1	9,552,108	25364.3	9,346,140	25263.3 9,331,523 0.40 0.16

Undesired	Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC	267.2	45,079	100.9 14,617
WCAU D34 DT LIC	17.0	2,018	14.0 1,184
WVIT D35 DT LIC	57.8	16,725	16.9 2,373
WDCA D35 DT LIC	749.5	126,930	660.5 97,648
WYLN-LP D35+ DC LIC	86.1	20,537	38.0 8,344
WNJU D36 DT LIC	75.9	51,783	57.9 42,856
WMGM-TV D36 DT LIC	305.5	19,090	305.5 19,090
WITF-TV D36 DT LIC	34.1	6,140	8.0 1,825
			1.0 261

Interference to BLANK0000034923 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	

Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	135.0 km
	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK0000034340	1.2
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000034541	326.9
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK0000028618	354.8
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	226.8
	WFPA-CD	D35	DC	CP	PHILADELPHIA, PA	BLANK0000034670	199.3
	WAHU-CD	D35	DC	CP	CHARLOTTESVILLE, VA	BLANK0000034100	162.5
	WTTG	D36	DT	LIC	WASHINGTON, DC	BLCDT20080507AAA	0.7
	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK0000035782	156.1
	WSVF-CD	D36	DC	CP	HARRISONBURG, VA	BLANK0000034406	159.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
26071.0 8,271,919	25079.9 8,211,498	24290.1 8,141,931	24039.7 8,123,174	1.03 0.23

Undesired		Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC	481.7	38,901		250.4 18,757
WRC-TV D34 DT CP	33.9	4,125	16.9 1,880	14.9 1,806
WNJU D35 DT CP	15.9	2,271	4.0 1,000	4.0 1,000
WJAC-TV D35 DT CP	236.2	22,794	198.4 19,152	16.9 2,911
WFPA-CD D35 DC CP	15.9	1,244	4.9 623	4.9 623
WAHU-CD D35 DC CP	509.8	36,075	459.9 32,216	447.0 32,162
WTTG D36 DT LIC	56.8	10,099	35.9 7,790	35.9 7,790
WITF-TV D36 DT APP	4.0	402	2.0 127	0.0 0
WSVF-CD D36 DC CP	2.0	35	2.0 35	0.0 0

Interference to BLANK0000034923 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	

Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	135.0 km
	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK0000034340	1.2
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000034541	326.9
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK0000028618	354.8
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	226.8
	WFPA-CD	D35	DC	CP	PHILADELPHIA, PA	BLANK0000034670	199.3
	WAHU-CD	D35	DC	CP	CHARLOTTESVILLE, VA	BLANK0000034100	162.5
	WTTG	D36	DT	LIC	WASHINGTON, DC	BLCDT20080507AAA	0.7

WITF-TV	D36	DT	LIC	HARRISBURG, PA	BLANK0000039358	156.1
WSVF-CD	D36	DC	CP	HARRISONBURG, VA	BLANK0000034406	159.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
26071.0	8,271,919	25079.9	8,211,498	24292.1	8,142,058	24039.7	8,123,174	1.04 0.23

Undesired		Total IX	Unique IX, before		Unique IX, after	
W33CR-D D35 LD LIC	481.7	38,901			252.4	18,884
WRC-TV D34 DT CP	33.9	4,125	16.9	1,880	14.9	1,806
WNJU D35 DT CP	15.9	2,271	4.0	1,000	4.0	1,000
WJAC-TV D35 DT CP	236.2	22,794	198.4	19,152	16.9	2,911
WFPA-CD D35 DC CP	15.9	1,244	4.9	623	4.9	623
WAHU-CD D35 DC CP	509.8	36,075	459.9	32,216	447.0	32,162
WTTG D36 DT LIC	56.8	10,099	35.9	7,790	35.9	7,790
WITF-TV D36 DT LIC	2.0	275	0.0	0	0.0	0
WSVF-CD D36 DC CP	2.0	35	2.0	35	0.0	0

Interference to BLANK0000034923 CP scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	135.0 km
	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK0000034340	1.2
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000034541	326.9
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK0000028618	354.8
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	226.8
	WFPA-CD	D35	DC	CP	PHILADELPHIA, PA	BLANK0000034670	199.3
	WAHU-CD	D35	DC	CP	CHARLOTTESVILLE, VA	BLANK0000034100	162.5
	WTTG	D36	DT	APP	WASHINGTON, DC	BLANK0000035718	2.7
	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK0000035782	156.1
	WSVF-CD	D36	DC	CP	HARRISONBURG, VA	BLANK0000034406	159.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
26071.0	8,271,919	25079.9	8,211,498	24285.2	8,140,780	24035.8	8,122,023	1.03 0.23

Undesired		Total IX	Unique IX, before		Unique IX, after	
W33CR-D D35 LD LIC	481.7	38,901			249.4	18,757
WRC-TV D34 DT CP	33.9	4,125	14.9	1,781	12.0	1,703

WNJU D35 DT CP	15.9	2,271	4.0	685	4.0	685
WJAC-TV D35 DT CP	236.2	22,794	196.4	18,955	16.9	2,911
WFPA-CD D35 DC CP	15.9	1,244	4.9	623	4.9	623
WAHU-CD D35 DC CP	509.8	36,075	461.9	32,233	449.0	32,179
WTTG D36 DT APP	65.7	11,757	40.8	8,941	39.8	8,941
WITF-TV D36 DT APP	4.0	402	2.0	127	0.0	0
WSVF-CD D36 DC CP	2.0	35	2.0	35	0.0	0

Interference to BLANK0000034923 CP scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel135-Full12	135.0 km
	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK0000034340	1.2
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000034541	326.9
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK0000028618	354.8
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	226.8
	WFPA-CD	D35	DC	CP	PHILADELPHIA, PA	BLANK0000034670	199.3
	WAHU-CD	D35	DC	CP	CHARLOTTESVILLE, VA	BLANK0000034100	162.5
	WTTG	D36	DT	APP	WASHINGTON, DC	BLANK0000035718	2.7
	WITF-TV	D36	DT	LIC	HARRISBURG, PA	BLANK0000039358	156.1
	WSVF-CD	D36	DC	CP	HARRISONBURG, VA	BLANK0000034406	159.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26071.0	8,271,919	25079.9	8,211,498	24287.2	8,140,907	24035.8	8,122,023	1.04	0.23
Undesired		Total IX		Unique IX, before		Unique IX, after			
W33CR-D D35 LD LIC	481.7	38,901			251.4	18,884			
WRC-TV D34 DT CP	33.9	4,125	14.9	1,781	12.0	1,703			
WNJU D35 DT CP	15.9	2,271	4.0	685	4.0	685			
WJAC-TV D35 DT CP	236.2	22,794	196.4	18,955	16.9	2,911			
WFPA-CD D35 DC CP	15.9	1,244	4.9	623	4.9	623			
WAHU-CD D35 DC CP	509.8	36,075	461.9	32,233	449.0	32,179			
WTTG D36 DT APP	65.7	11,757	40.8	8,941	39.8	8,941			
WITF-TV D36 DT LIC	2.0	275	0.0	0	0.0	0			
WSVF-CD D36 DC CP	2.0	35	2.0	35	0.0	0			

Interference to BLANK0000035782 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK0000035782	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	81.5 km
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	156.1
	WTTG	D36	DT	LIC	WASHINGTON, DC	BLCDT20080507AAA	155.5
	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLANK0000035355	225.3
	WUTV	D36	DT	CP	BUFFALO, NY	BLANK0000034378	295.8
	WCBS-TV	D36	DT	CP	NEW YORK, NY	BLANK0000033867	244.7
	WSPX-TV	D36	DT	CP	SYRACUSE, NY	BLANK0000029579	335.9
	W47AO-D	D36-	DC	CP	BERWICK, PA	BLANK0000034699	91.8
	WSVF-CD	D36	DC	CP	HARRISONBURG, VA	BLANK0000034406	271.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
22037.6	2,631,730	19250.8	2,408,941	16535.2	2,188,073	16526.2 2,181,744	0.05 0.29
Undesired		Total IX		Unique IX, before		Unique IX, after	
W33CR-D	D35 LD LIC	43.2	19,156			9.0	6,329
WPXW-TV	D35 DT CP	23.7	2,785	5.9	1,454	5.9	1,454
WTTG	D36 DT LIC	2120.8	184,822	1501.2	131,092	1485.1	122,573
WMGM-TV	D36 DT LIC	343.3	29,160	34.0	7,371	34.0	7,371
WUTV	D36 DT CP	42.7	935	5.0	21	5.0	21
WCBS-TV	D36 DT CP	386.1	27,957	90.0	9,850	89.0	9,761
WSPX-TV	D36 DT CP	5.0	357	0.0	0	0.0	0
W47AO-D	D36- DC CP	728.2	45,398	369.0	13,183	363.0	12,796
WSVF-CD	D36 DC CP	1.0	30	0.0	0	0.0	0

Interference to BLANK0000035782 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK0000035782	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	81.5 km
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	156.1
	WTTG	D36	DT	APP	WASHINGTON, DC	BLANK0000035718	154.9
	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLANK0000035355	225.3
	WUTV	D36	DT	CP	BUFFALO, NY	BLANK0000034378	295.8

WCBS-TV	D36	DT	CP	NEW YORK, NY	BLANK0000033867	244.7
WSPX-TV	D36	DT	CP	SYRACUSE, NY	BLANK0000029579	335.9
W47AO-D	D36-	DC	CP	BERWICK, PA	BLANK0000034699	91.8
WSVF-CD	D36	DC	CP	HARRISONBURG, VA	BLANK0000034406	271.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
22037.6 2,631,730	19250.8 2,408,941	16545.3 2,190,682	16532.3 2,180,837	0.08 0.45

Undesired	Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC 43.2	19,156	13.1 9,845	
WPXW-TV D35 DT CP 23.7	2,785	2.0 402	
WTTG D36 DT APP 2113.7	175,854	1491.0 128,483	
WMGM-TV D36 DT LIC 343.3	29,160	44.0 7,885	
WUTV D36 DT CP 42.7	935	4.0 33	
WCBS-TV D36 DT CP 386.1	27,957	77.0 7,968	
WSPX-TV D36 DT CP 5.0	357	0.0 0	
W47AO-D D36- DC CP 728.2	45,398	374.0 21,266	
WSVF-CD D36 DC CP 1.0	30	0.0 0	

Interference to BLANK0000039358 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WITF-TV	D36	DT	LIC	HARRISBURG, PA	BLANK0000039358	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	81.5 km
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	156.1
	WTTG	D36	DT	LIC	WASHINGTON, DC	BLCDDT20080507AAA	155.5
	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLANK0000035355	225.3
	WUTV	D36	DT	CP	BUFFALO, NY	BLANK0000034378	295.8
	WCBS-TV	D36	DT	CP	NEW YORK, NY	BLANK0000033867	244.7
	WSPX-TV	D36	DT	CP	SYRACUSE, NY	BLANK0000029579	335.9
	W47AO-D	D36-	DC	CP	BERWICK, PA	BLANK0000034699	91.8
	WSVF-CD	D36	DC	CP	HARRISONBURG, VA	BLANK0000034406	271.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
19485.5 2,409,697	17125.1 2,207,263	14854.1 2,012,435	14840.0 2,010,781	0.09 0.08

Undesired	Total IX	Unique IX, before	Unique IX, after
W33CR-D D35 LD LIC 31.2	6,698	14.1 1,654	

WPXW-TV D35 DT CP	12.8	1,679	1.0	134	1.0	134
WTTG D36 DT LIC	1816.9	158,918	1290.2	123,860	1281.2	118,952
WMGM-TV D36 DT LIC	254.5	25,365	26.0	10,285	26.0	10,285
WUTV D36 DT CP	17.9	374	2.0	98	2.0	98
WCBS-TV D36 DT CP	327.3	25,793	76.0	7,969	76.0	7,969
WSPX-TV D36 DT CP	2.0	18	0.0	0	0.0	0
W47AO-D D36- DC CP	603.1	30,776	277.2	13,310	274.2	13,223
WSVF-CD D36 DC CP	6.0	27	2.0	0	2.0	0

Interference to BLANK0000039358 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WITF-TV	D36	DT	LIC	HARRISBURG, PA	BLANK0000039358	
Undesireds:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	81.5 km
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	156.1
	WTTG	D36	DT	APP	WASHINGTON, DC	BLANK0000035718	154.9
	WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLANK0000035355	225.3
	WUTV	D36	DT	CP	BUFFALO, NY	BLANK0000034378	295.8
	WCBS-TV	D36	DT	CP	NEW YORK, NY	BLANK0000033867	244.7
	WSPX-TV	D36	DT	CP	SYRACUSE, NY	BLANK0000029579	335.9
	W47AO-D	D36-	DC	CP	BERWICK, PA	BLANK0000034699	91.8
	WSVF-CD	D36	DC	CP	HARRISONBURG, VA	BLANK0000034406	271.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
19485.5	2,409,697	17125.1	2,207,263	14861.0	2,023,168	14844.9	2,019,610	0.11	0.18
Undesired		Total IX		Unique IX, before		Unique IX, after			
W33CR-D D35 LD LIC	31.2	6,698			16.1	3,558			
WPXW-TV D35 DT CP	12.8	1,679	0.0	0	0.0	0			
WTTG D36 DT APP	1803.9	150,193	1283.3	113,127	1276.2	110,123			
WMGM-TV D36 DT LIC	254.5	25,365	32.0	6,727	32.0	6,727			
WUTV D36 DT CP	17.9	374	1.0	0	1.0	0			
WCBS-TV D36 DT CP	327.3	25,793	77.0	10,117	77.0	10,117			
WSPX-TV D36 DT CP	2.0	18	0.0	0	0.0	0			
W47AO-D D36- DC CP	603.1	30,776	280.2	13,349	276.2	13,279			
WSVF-CD D36 DC CP	6.0	27	1.0	0	1.0	0			

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	
Undesireds:	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK00000034340	136.0 km
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK00000028618	239.2
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK00000027312	110.7
	WUDJ-LD	D35	LD	LIC	CROZET, VA	BLANK00000014021	263.9
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK00000034923	135.0
	WTTG	D36	DT	LIC	WASHINGTON, DC	BLCDDT20080507AAA	134.3
	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK00000035782	81.5

	Service area	Terrain-limited	IX-free	Percent IX
10314.1	578,145	6894.3	449,557	6665.8
			444,542	3.31
				1.12

Undesired	Total IX	Unique IX	Prcnt Unique IX
WRC-TV D34 DT CP	7.0	3	0.00
WJAC-TV D35 DT CP	106.2	2,077	51.1
WPXW-TV D35 DT CP	172.3	4,066	118.3
WTTG D36 DT LIC	6.9	3	0.00
WITF-TV D36 DT APP	6.0	132	0.00

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	
Undesireds:	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK00000034340	136.0 km
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK00000028618	239.2
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK00000027312	110.7
	WUDJ-LD	D35	LD	LIC	CROZET, VA	BLANK00000014021	263.9
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK00000034923	135.0
	WTTG	D36	DT	LIC	WASHINGTON, DC	BLCDDT20080507AAA	134.3

	Service area	Terrain-limited	IX-free	Percent IX
10314.1	578,145	6894.3	449,557	6665.8
			444,542	3.31
				1.12

Undesired	Total IX	Unique IX	Prcnt Unique IX
-----------	----------	-----------	-----------------

WRC-TV D34 DT CP	7.0	3	0.0	0	0.00	0.00
WJAC-TV D35 DT CP	106.2	2,077	55.1	949	0.80	0.21
WPXW-TV D35 DT CP	172.3	4,066	118.3	2,938	1.72	0.65
WTTG D36 DT LIC	6.9	3	0.0	0	0.00	0.00

Interference to proposal scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	
Undesireds:	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK0000034340	136.0 km
	WENY-TV	D35	DT	APP	ELMIRA, NY	BLANK0000034793	239.2
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	110.7
	WUDJ-LD	D35	LD	LIC	CROZET, VA	BLANK0000014021	263.9
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	135.0
	WTTG	D36	DT	LIC	WASHINGTON, DC	BLCDT20080507AAA	134.3
	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK0000035782	81.5

Service area	Terrain-limited	IX-free	Percent IX
10314.1	578,145	444,542	3.31 1.12

Undesired	Total IX	Unique IX	Prcnt Unique IX
WRC-TV D34 DT CP	7.0 3 0.0	0 0.00 0.00	
WENY-TV D35 DT APP	1.0 0 0.0	0 0.00 0.00	
WJAC-TV D35 DT CP	106.2 2,077 51.1	880 0.74 0.20	
WPXW-TV D35 DT CP	172.3 4,066 118.3	2,938 1.72 0.65	
WTTG D36 DT LIC	6.9 3 0.0	0 0.00 0.00	
WITF-TV D36 DT APP	6.0 132 0.0	0 0.00 0.00	

Interference to proposal scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	
Undesireds:	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK0000034340	136.0 km
	WENY-TV	D35	DT	APP	ELMIRA, NY	BLANK0000034793	239.2
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	110.7
	WUDJ-LD	D35	LD	LIC	CROZET, VA	BLANK0000014021	263.9

WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	135.0
WTTG	D36	DT	LIC	WASHINGTON, DC	BLCDT20080507AAA	134.3

Service area		Terrain-limited		IX-free	Percent IX
10314.1	578,145	6894.3	449,557	6665.8	444,542
					3.31
					1.12

Undesired		Total IX		Unique IX	Prcnt Unique IX
WRC-TV D34 DT CP	7.0	3	0.0	0	0.00
WENY-TV D35 DT APP	1.0	0	0.0	0	0.00
WJAC-TV D35 DT CP	106.2	2,077	55.1	949	0.80
WPXW-TV D35 DT CP	172.3	4,066	118.3	2,938	1.72
WTTG D36 DT LIC	6.9	3	0.0	0	0.00

Interference to proposal scenario 5

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	
Undesireds:	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK0000034340	136.0 km
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK0000028618	239.2
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	110.7
	WUDJ-LD	D35	LD	LIC	CROZET, VA	BLANK0000014021	263.9
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	135.0
	WTTG	D36	DT	APP	WASHINGTON, DC	BLANK0000035718	132.7
	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK0000035782	81.5

Service area		Terrain-limited		IX-free	Percent IX
10314.1	578,145	6894.3	449,557	6664.9	444,542
					3.33
					1.12

Undesired		Total IX		Unique IX	Prcnt Unique IX
WRC-TV D34 DT CP	7.0	3	0.0	0	0.00
WJAC-TV D35 DT CP	106.2	2,077	51.1	880	0.74
WPXW-TV D35 DT CP	172.3	4,066	117.3	2,927	1.70
WTTG D36 DT APP	9.9	705	1.0	0	0.01
WITF-TV D36 DT APP	6.0	132	0.0	0	0.00

Interference to proposal scenario 6

Desired:	Call W33CR-D	Chan D35	Svc LD	Status LIC	City, State CHAMBERSBURG, PA	File Number Channel35-Full12	Distance
Undesireds:	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK00000034340	136.0 km
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK00000028618	239.2
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK00000027312	110.7
	WUDJ-LD	D35	LD	LIC	CROZET, VA	BLANK00000014021	263.9
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK00000034923	135.0
	WTTG	D36	DT	APP	WASHINGTON, DC	BLANK00000035718	132.7

	Service area		Terrain-limited		IX-free		Percent IX
10314.1	578,145	6894.3	449,557	6664.9	444,542	3.33	1.12

Undesired				Total IX		Unique IX	Prcnt Unique IX
WRC-TV D34 DT CP		7.0		3	0.0	0	0.00 0.00
WJAC-TV D35 DT CP		106.2		2,077	55.1	949	0.80 0.21
WPXW-TV D35 DT CP		172.3		4,066	117.3	2,927	1.70 0.65
WTTG D36 DT APP		9.9		705	1.0	0	0.01 0.00

Interference to proposal scenario 7

Desired:	Call W33CR-D	Chan D35	Svc LD	Status LIC	City, State CHAMBERSBURG, PA	File Number Channel35-Full12	Distance
Undesireds:	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK00000034340	136.0 km
	WENY-TV	D35	DT	APP	ELMIRA, NY	BLANK00000034793	239.2
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK00000027312	110.7
	WUDJ-LD	D35	LD	LIC	CROZET, VA	BLANK00000014021	263.9
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK00000034923	135.0
	WTTG	D36	DT	APP	WASHINGTON, DC	BLANK00000035718	132.7
	WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK00000035782	81.5

	Service area		Terrain-limited		IX-free		Percent IX
10314.1	578,145	6894.3	449,557	6664.9	444,542	3.33	1.12

Undesired				Total IX		Unique IX	Prcnt Unique IX
WRC-TV D34 DT CP		7.0		3	0.0	0	0.00 0.00
WENY-TV D35 DT APP		1.0		0	0.0	0	0.00 0.00
WJAC-TV D35 DT CP		106.2		2,077	51.1	880	0.74 0.20

WPXW-TV D35 DT CP	172.3	4,066	117.3	2,927	1.70	0.65
WTTG D36 DT APP	9.9	705	1.0	0	0.01	0.00
WITF-TV D36 DT APP	6.0	132	0.0	0	0.00	0.00

Interference to proposal scenario 8

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W33CR-D	D35	LD	LIC	CHAMBERSBURG, PA	Channel35-Full12	
Undesireds:	WRC-TV	D34	DT	CP	WASHINGTON, DC	BLANK0000034340	136.0 km
	WENY-TV	D35	DT	APP	ELMIRA, NY	BLANK0000034793	239.2
	WJAC-TV	D35	DT	CP	JOHNSTOWN, PA	BLANK0000027312	110.7
	WUDJ-LD	D35	LD	LIC	CROZET, VA	BLANK0000014021	263.9
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	135.0
	WTTG	D36	DT	APP	WASHINGTON, DC	BLANK0000035718	132.7

Service area	Terrain-limited	IX-free	Percent IX
10314.1	578,145	444,542	3.33 1.12

Undesired	Total IX	Unique IX	Prcnt Unique IX
WRC-TV D34 DT CP	7.0 3	0.0 0	0.00 0.00
WENY-TV D35 DT APP	1.0 0	0.0 0	0.00 0.00
WJAC-TV D35 DT CP	106.2 2,077	55.1 949	0.80 0.21
WPXW-TV D35 DT CP	172.3 4,066	117.3 2,927	1.70 0.65
WTTG D36 DT APP	9.9 705	1.0 0	0.01 0.00

TABLE I
COMPUTED COVERAGE DATA
FOR THE PROPOSED OPERATION OF
W33CR-D, CHAMBERSBURG, PENNSYLVANIA
CHANNEL 35 7.3 KW ND ERP 719.9 METERS RC/AMSL
APRIL 2018

<u>Radial</u>	<u>Average</u>	<u>Effective</u>	<u>Depression</u>	<u>Effective</u>	<u>Distance to Contour</u>
<u>N ° E, T</u>	<u>Elevation</u>	<u>Height</u>	<u>Angle</u>	<u>Radiated</u>	<u>51 dBu</u>
	meters	meters	degrees	kW	km
0	356.4	363.5	0.528	7.3	54.8
10	405.4	314.5	0.491	7.3	52.3
20	415.9	304.0	0.483	7.3	51.8
30	393.5	326.4	0.500	7.3	53.0
40	383.1	336.8	0.508	7.3	53.5
50	233.1	486.8	0.611	7.3	59.6
60	213.1	506.8	0.624	7.3	60.2
70	208.7	511.2	0.626	7.3	60.3
80	200.9	519.0	0.631	7.3	60.5
90	204.4	515.5	0.629	7.3	60.4
100	213.5	506.4	0.623	7.3	60.2
110	214.4	505.5	0.623	7.3	60.1
120	214.5	505.4	0.623	7.3	60.1
130	214.7	505.2	0.623	7.3	60.1
140	205.6	514.3	0.628	7.3	60.4
150	200.8	519.1	0.631	7.3	60.5
160	206.3	513.6	0.628	7.3	60.4
170	202.4	517.5	0.630	7.3	60.5
180	195.0	524.9	0.635	7.3	60.7
190	198.6	521.3	0.632	7.3	60.6
200	218.8	501.1	0.620	7.3	60.0
210	329.7	390.2	0.547	7.3	55.9
220	533.6	186.3	0.378	7.3	45.3
230	449.6	270.3	0.455	7.3	50.0
240	365.7	354.2	0.521	7.3	54.4
250	331.5	388.4	0.546	7.3	55.9
260	348.1	371.8	0.534	7.3	55.2
270	344.1	375.9	0.537	7.3	55.4

TABLE I
COMPUTED COVERAGE DATA
FOR THE PROPOSED OPERATION OF
W33CR-D, CHAMBERSBURG, PENNSYLVANIA
CHANNEL 35 7.3 KW ND ERP 719.9 METERS RC/AMSL
APRIL 2018

<u>Radial</u>	<u>Average</u>	<u>Effective</u>	<u>Depression</u>	Effective	<u>Distance to Contour</u>
<u>N ° E, T</u>	<u>Elevation</u>	<u>Height</u>	<u>Angle</u>	<u>Radiated</u>	<u>51 dBu</u>
	meters	meters	degrees	Power	km
280	324.6	395.3	0.551	7.3	56.2
290	318.1	401.8	0.555	7.3	56.4
300	323.6	396.3	0.551	7.3	56.2
310	337.5	382.4	0.542	7.3	55.6
320	345.3	374.7	0.536	7.3	55.3
330	345.0	374.9	0.536	7.3	55.3
340	341.7	378.2	0.539	7.3	55.5
350	341.8	378.1	0.539	7.3	55.4

