tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WTXF_CP_VPAT_MOD_REV_C_HGT_ADJ_WO_WPXN, Model: Longley-Rice
Start: 2019.08.08 09:44:06

Study created: 2019.08.08 09:44:05

Study build station data: LMS TV 2019-08-04

    Proposal: WTXF-TV D31 DT APP PHILADELPHIA, PA
 File number: WTXF_CP_VPAT_MOD_REV_C_HGT_ADJ
 Facility ID: 51568
Station data: User record
   Record ID: 734
     Country: U.S.
        Zone: I

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

Individual records excluded:
0000037694   WPXN-TV D31 DT LIC NEW YORK, NY BLANK0000037694

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WEDH	D30	DT	CP	HARTFORD, CT	BLANK0000034543	274.0 km
No	WIAV-CD	D30	DC	CP	WASHINGTON, DC	BLANK0000029340	199.9
Yes	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	0.4
Yes	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000074279	273.8
Yes	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK0000079823	273.8
Yes	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	199.0
Yes	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	164.1
Yes	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	232.3
No	WNED-TV	D31	DT	CP	BUFFALO, NY	BLANK0000034601	451.9
No	WNCE-CD	D31	DC	LIC	GLENS FALLS, NY	BLDTA20100812ABN	381.8
No	WWTI	D31	DT	LIC	WATERTOWN, NY	BLANK0000079855	428.6
No	WWTI	D31	DT	CP	WATERTOWN, NY	BLANK0000028475	428.6
No	WYTV	D31	DT	CP	YOUNGSTOWN, OH	BLANK0000078649	470.3
Yes	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	277.9
Yes	WHRO-TV	D31	DT	CP	HAMPTON-NORFOLK, VA	BLANK0000026987	375.7
No	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	174.2
Yes	WLIW	D32	DT	CP	GARDEN CITY, NY	BLANK0000074687	127.9
Yes	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	142.5

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:
WNWR 1540 L DA2 D PHILADELPHIA, PA BMML20171220ACU
WNWR 1540 L DA2 N PHILADELPHIA, PA BMML20171220ACU

Record parameters as studied:

```
    Channel: D31
   Latitude:  40  2 26.00 N (NAD83)
  Longitude:  75 14 18.00 W
Height AMSL: 402.8 m
       HAAT: 335.0 m
   Peak ERP: 1000 kW
    Antenna: Omnidirectional
Elev Pattrn: ERI ATW18HS9_ETO_31H_REV_C_2.25_EBT
  Elec Tilt: 2.25
```

40.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1000 kW	332.0 m	101.3 km
45.0	1000	298.9	97.9
90.0	1000	353.6	103.3
135.0	1000	385.6	106.2
180.0	1000	364.0	104.2
225.0	1000	310.7	99.2
270.0	1000	282.1	95.8
315.0	1000	357.6	103.6

Database HAAT does not agree with computed HAAT
Database HAAT: 335 m Computed HAAT: 336 m

Distance to Canadian border: 419.4 km

Distance to Mexican border: 2543.3 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 234.8 degrees Distance: 166.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 280.1 degrees Distance: 2537.4 km

Study cell size: 2.00 km
Profile point spacing: 1.00 km

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

Interference to BLANK0000033618 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	0.4 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	0.4
	WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDT20090223ABU	204.1
	WEDH	D30	DT	CP	HARTFORD, CT	BLANK0000034543	274.1
	WIAV-CD	D30	DC	CP	WASHINGTON, DC	BLANK0000029340	199.7
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	164.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
34708.6	11,212,189	33425.6	11,008,413	33250.1	10,975,222	33238.1	10,975,025	0.04	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	24.0	1,684		20.0	537		
WTXF-TV D31 DT APP	36.0	1,881				32.0	734
WEDH D30 DT CP	16.0	13,525		16.0	13,525	16.0	13,525
WIAV-CD D30 DC CP	139.6	19,129		99.8	11,996	99.8	11,996
WMPT D31 DT BL	35.7	5,986		0.0	0	0.0	0

Interference to BLANK0000074279 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000074279	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	273.7 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	273.8
	WEDH	D30	DT	CP	HARTFORD, CT	BLANK0000034543	0.3
	WCSH	D31	DT	CP	PORTLAND, ME	BLANK0000034813	295.7
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	260.8
	WNCE-CD	D31	DC	LIC	GLENS FALLS, NY	BLDTA20100812ABN	191.7
	WWTI	D31	DT	LIC	WATERTOWN, NY	BLANK0000079855	337.8
	WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038	148.2
	WLIW	D32	DT	CP	GARDEN CITY, NY	BLANK0000074687	147.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32863.7	5,846,093	29484.7	5,357,639	28349.3	5,198,452	28244.6	5,186,629	0.37	0.23

Undesired		Total IX		Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	253.4	69,378		144.9	27,361		
WTXF-TV D31 DT APP	386.1	93,611				249.6	39,184
WEDH D30 DT CP	160.1	8,878		160.1	8,878	160.1	8,878
WCSH D31 DT CP	393.2	36,948		268.9	25,720	268.9	25,720
WSKG-TV D31 DT CP	16.1	2,097		0.0	0	0.0	0
WNCE-CD D31 DC LIC	168.5	6,707		100.2	1,889	84.2	1,294
WGBX-TV D32 DT CP	280.5	27,153		164.1	15,983	164.1	15,983
WLIW D32 DT CP	112.5	63,368		52.2	24,072	40.3	12,257

Interference to BLANK0000079823 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK0000079823	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	273.7 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	273.8
	WEDH	D30	DT	CP	HARTFORD, CT	BLANK0000034543	0.3
	WCSH	D31	DT	CP	PORTLAND, ME	BLANK0000034813	295.7
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	260.8
	WNCE-CD	D31	DC	LIC	GLENS FALLS, NY	BLDTA20100812ABN	191.7
	WWTI	D31	DT	LIC	WATERTOWN, NY	BLANK0000079855	337.8
	WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038	148.2
	WLIW	D32	DT	CP	GARDEN CITY, NY	BLANK0000074687	147.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32863.7	5,846,093	29484.7	5,357,639	28349.3	5,198,452	28244.6	5,186,629	0.37	0.23

Undesired		Total IX		Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	253.4	69,378		144.9	27,361		
WTXF-TV D31 DT APP	386.1	93,611				249.6	39,184
WEDH D30 DT CP	160.1	8,878		160.1	8,878	160.1	8,878
WCSH D31 DT CP	393.2	36,948		268.9	25,720	268.9	25,720
WSKG-TV D31 DT CP	16.1	2,097		0.0	0	0.0	0
WNCE-CD D31 DC LIC	168.5	6,707		100.2	1,889	84.2	1,294
WGBX-TV D32 DT CP	280.5	27,153		164.1	15,983	164.1	15,983
WLIW D32 DT CP	112.5	63,368		52.2	24,072	40.3	12,257

Interference to BLANK0000029879 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	199.1 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	199.0
	WDCO-CD	D30	DC	BL	WOODSTOCK, VA	DTVBL57905	54.2
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	41.2
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	214.3
	WHRO-TV	D31	DT	CP	HAMPTON-NORFOLK, VA	BLANK0000026987	243.3
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	134.0
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	156.1
	WCAV	D32	DT	CP	CHARLOTTESVILLE, VA	BLANK0000034188	162.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26547.6	8,315,499	25551.9	8,258,807	11258.2	5,405,066	11218.3	5,394,336	0.35	0.20

Undesired	Total IX		Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	187.3	11,750	7.9	1,022		
WTXF-TV D31 DT APP	558.1	52,661			47.8	11,752
WDCO-CD D30 DC BL	164.2	3,022	32.0	302	32.0	302
WMPT D31 DT BL	14174.3	2,850,374	13404.8	2,806,326	13205.6	2,783,725
WATM-TV D31 DT CP	222.6	16,037	15.8	909	11.9	809
WHRO-TV D31 DT CP	346.5	17,537	39.8	201	31.8	169
WBOC-TV D32 DT CP	96.5	2,650	0.0	0	0.0	0
WHP-TV D32 DT CP	23.7	1,707	4.0	127	4.0	127
WCAV D32 DT CP	4.0	51	0.0	0	0.0	0

Interference to DTVBL65942 BL scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	164.1 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	164.1
	WIAV-CD	D30	DC	CP	WASHINGTON, DC	BLANK0000029340	41.6
	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	164.0
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	41.2
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	233.6
	WHRO-TV	D31	DT	CP	HAMPTON-NORFOLK, VA	BLANK0000026987	244.8
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	100.8
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	150.1

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

23889.3	7,945,174	23642.3	7,913,708	8516.9	3,030,510	8461.0	3,018,223	0.66	0.41

Undesired		Total IX		Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	1250.4	95,673		51.8	8,909		
WTXF-TV D31 DT APP	2197.1	269,597				107.7	21,196
WIAV-CD D30 DC CP	72.1	73,504		4.0	8,590	4.0	8,590
KYW-TV D30 DT CP	4.0	8		0.0	0	0.0	0
WETA-TV D31 DT CP	15029.6	4,861,951		13150.7	4,690,226	12407.0	4,543,843
WATM-TV D31 DT CP	91.6	9,570		4.0	24	4.0	24
WHRO-TV D31 DT CP	274.8	17,435		8.0	454	0.0	0
WBOC-TV D32 DT CP	441.5	13,355		0.0	0	0.0	0
WHP-TV D32 DT CP	39.9	1,964		4.0	166	4.0	166

Interference to BLANK0000028130 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	232.3 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	232.3
	WYDC	D30	DT	CP	CORNING, NY	BLANK0000034651	93.8
	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000074279	260.8
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	358.8
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	343.7
	WNED-TV	D31	DT	CP	BUFFALO, NY	BLANK0000034601	266.3
	WWTI	D31	DT	LIC	WATERTOWN, NY	BLANK0000079855	203.0
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	266.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
21139.9	892,432	18494.3	632,449	17988.4	622,051	17928.1	620,993	0.34	0.17

Undesired		Total IX		Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	116.6	1,720		36.1	903		
WTXF-TV D31 DT APP	249.3	4,324				96.4	1,961
WYDC D30 DT CP	100.0	2,168		84.0	1,841	84.0	1,841
WVIT D31 DT CP	164.9	2,885		104.5	2,218	68.4	1,637
WETA-TV D31 DT CP	4.0	15		0.0	0	0.0	0
WMPT D31 DT BL	4.0	15		0.0	0	0.0	0
WNED-TV D31 DT CP	84.3	2,705		52.2	1,485	44.1	982
WWTI D31 DT LIC	52.2	731		32.1	649	32.1	649
WATM-TV D31 DT CP	124.7	2,568		80.5	1,100	60.3	981

Interference to BLANK0000028130 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	232.3 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	232.3
	WYDC	D30	DT	CP	CORNING, NY	BLANK0000034651	93.8
	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000074279	260.8
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	358.8
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	343.7
	WNED-TV	D31	DT	CP	BUFFALO, NY	BLANK0000034601	266.3
	WWTI	D31	DT	CP	WATERTOWN, NY	BLANK0000028475	203.0
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	266.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
21139.9	892,432	18494.3	632,449	17988.4	622,051	17928.1	620,993	0.34	0.17

Undesired		Total IX		Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	116.6	1,720		36.1	903		
WTXF-TV D31 DT APP	249.3	4,324				96.4	1,961
WYDC D30 DT CP	100.0	2,168		84.0	1,841	84.0	1,841
WVIT D31 DT CP	164.9	2,885		104.5	2,218	68.4	1,637
WETA-TV D31 DT CP	4.0	15		0.0	0	0.0	0
WMPT D31 DT BL	4.0	15		0.0	0	0.0	0
WNED-TV D31 DT CP	84.3	2,705		52.2	1,485	44.1	982
WWTI D31 DT CP	52.2	731		32.1	649	32.1	649
WATM-TV D31 DT CP	124.7	2,568		80.5	1,100	60.3	981

Interference to BLANK0000028130 CP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	232.3 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	232.3
	WYDC	D30	DT	CP	CORNING, NY	BLANK0000034651	93.8
	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK0000079823	260.8
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	358.8
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	343.7
	WNED-TV	D31	DT	CP	BUFFALO, NY	BLANK0000034601	266.3
	WWTI	D31	DT	LIC	WATERTOWN, NY	BLANK0000079855	203.0
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	266.5

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

21139.9	892,432	18494.3	632,449	17988.4	622,051	17928.1	620,993	0.34	0.17

Undesired		Total IX		Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	116.6	1,720	36.1	903			
WTXF-TV D31 DT APP	249.3	4,324			96.4	1,961	
WYDC D30 DT CP	100.0	2,168	84.0	1,841	84.0	1,841	
WVIT D31 DT LIC	164.9	2,885	104.5	2,218	68.4	1,637	
WETA-TV D31 DT CP	4.0	15	0.0	0	0.0	0	
WMPT D31 DT BL	4.0	15	0.0	0	0.0	0	
WNED-TV D31 DT CP	84.3	2,705	52.2	1,485	44.1	982	
WWTI D31 DT LIC	52.2	731	32.1	649	32.1	649	
WATM-TV D31 DT CP	124.7	2,568	80.5	1,100	60.3	981	

Interference to BLANK0000028130 CP scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	232.3 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	232.3
	WYDC	D30	DT	CP	CORNING, NY	BLANK0000034651	93.8
	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK0000079823	260.8
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	358.8
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	343.7
	WNED-TV	D31	DT	CP	BUFFALO, NY	BLANK0000034601	266.3
	WWTI	D31	DT	CP	WATERTOWN, NY	BLANK0000028475	203.0
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	266.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
21139.9	892,432	18494.3	632,449	17988.4	622,051	17928.1	620,993	0.34	0.17

Undesired		Total IX		Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	116.6	1,720	36.1	903			
WTXF-TV D31 DT APP	249.3	4,324			96.4	1,961	
WYDC D30 DT CP	100.0	2,168	84.0	1,841	84.0	1,841	
WVIT D31 DT LIC	164.9	2,885	104.5	2,218	68.4	1,637	
WETA-TV D31 DT CP	4.0	15	0.0	0	0.0	0	
WMPT D31 DT BL	4.0	15	0.0	0	0.0	0	
WNED-TV D31 DT CP	84.3	2,705	52.2	1,485	44.1	982	
WWTI D31 DT CP	52.2	731	32.1	649	32.1	649	
WATM-TV D31 DT CP	124.7	2,568	80.5	1,100	60.3	981	

Interference to BLANK0000028661 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	277.9 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	277.9
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	214.3
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	233.6
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	266.5
	WNED-TV	D31	DT	CP	BUFFALO, NY	BLANK0000034601	276.5
	WYTV	D31	DT	CP	YOUNGSTOWN, OH	BLANK0000078649	193.0
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	135.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23383.7	893,989	19245.2	749,183	18686.8	742,441	18678.7	742,378	0.04	0.01

Undesired		Total IX		Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	76.3	764		20.0	304		
WTXF-TV D31 DT APP	116.5	1,333				28.1	367
WETA-TV D31 DT CP	305.6	3,181		189.2	1,786	173.1	1,632
WMPT D31 DT BL	120.6	970		24.2	121	24.2	121
WSKG-TV D31 DT CP	24.2	31		8.0	31	8.0	31
WNED-TV D31 DT CP	20.3	214		0.0	0	0.0	0
WYTV D31 DT CP	168.5	3,134		104.2	2,146	104.2	2,146
WHP-TV D32 DT CP	92.2	1,068		44.1	493	40.1	303

Interference to BLANK0000026987 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHRO-TV	D31	DT	CP	HAMPTON-NORFOLK, VA	BLANK0000026987	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	375.7 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	375.7
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	243.3
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	244.8
	WGHP	D31	DT	CP	HIGH POINT, NC	BLANK0000034212	318.8
	WPXV-TV	D32	DT	CP	NORFOLK, VA	BLANK0000068420	3.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
31462.3	2,108,225	31450.4	2,108,154	31143.9	2,089,777	31143.9	2,089,777	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	0.0	0		0.0	0		
WTXF-TV D31 DT APP	4.0	176				0.0	0

WETA-TV D31 DT CP	290.5	17,707	175.0	11,405	175.0	11,405
WMPT D31 DT BL	111.5	6,302	0.0	0	0.0	0
WGHP D31 DT CP	16.0	1,381	0.0	0	0.0	0
WPXV-TV D32 DT CP	27.9	834	15.9	670	15.9	670

Interference to BLANK0000074687 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLIW	D32	DT	CP	GARDEN CITY, NY	BLANK0000074687	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	127.8 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	127.9
	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000074279	147.7
	WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038	291.4
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	282.3
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	244.7
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	147.9
	WCBS-TV	D33	DT	LIC	NEW YORK, NY	BLANK0000048556	0.0
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	128.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26265.9	20,027,920	24614.4	19,717,729	23445.1	19,461,718	23445.1	19,461,718	0.00	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	229.1	39,002	4.0	582		
WTXF-TV D31 DT APP	273.2	43,837			4.0	582
WVIT D31 DT CP	28.1	10,068	0.0	0	0.0	0
WGBX-TV D32 DT CP	153.5	62,520	76.8	32,590	76.8	32,590
WBOC-TV D32 DT CP	88.1	14,879	20.0	1,304	20.0	1,304
WHP-TV D32 DT CP	473.4	64,919	308.8	36,518	308.8	36,518
WCCT-TV D33 DT CP	36.2	17,866	4.1	1,372	4.1	1,372
WCBS-TV D33 DT LIC	144.5	67,672	132.4	66,734	132.4	66,734
WPSG D33 DT CP	510.6	82,442	225.4	39,058	217.4	37,413

Interference to BLANK0000074687 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLIW	D32	DT	CP	GARDEN CITY, NY	BLANK0000074687	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	127.8 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	127.9
	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK0000079823	147.7
	WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038	291.4

	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	282.3
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	244.7
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	147.9
	WCBS-TV	D33	DT	LIC	NEW YORK, NY	BLANK0000048556	0.0
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	128.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26265.9	20,027,920	24614.4	19,717,729	23445.1	19,461,718	23445.1	19,461,718	0.00	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	229.1	39,002	4.0	582		
WTXF-TV D31 DT APP	273.2	43,837			4.0	582
WVIT D31 DT LIC	28.1	10,068	0.0	0	0.0	0
WGBX-TV D32 DT CP	153.5	62,520	76.8	32,590	76.8	32,590
WBOC-TV D32 DT CP	88.1	14,879	20.0	1,304	20.0	1,304
WHP-TV D32 DT CP	473.4	64,919	308.8	36,518	308.8	36,518
WCCT-TV D33 DT CP	36.2	17,866	4.1	1,372	4.1	1,372
WCBS-TV D33 DT LIC	144.5	67,672	132.4	66,734	132.4	66,734
WPSG D33 DT CP	510.6	82,442	225.4	39,058	217.4	37,413

Interference to BLANK0000072963 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	142.5 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	142.5
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	156.1
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	150.1
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	135.5
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	230.0
	WUTV	D32	DT	CP	BUFFALO, NY	BLANK0000075316	343.4
	WLIW	D32	DT	CP	GARDEN CITY, NY	BLANK0000074687	244.7
	WCAV	D32	DT	CP	CHARLOTTESVILLE, VA	BLANK0000034188	296.9
	WPXV-TV	D32	DT	CP	NORFOLK, VA	BLANK0000068420	393.8
	WHUT-TV	D33	DT	APP	WASHINGTON, DC	BLANK0000035679	156.1
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	142.2
	WQPX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	154.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33691.4	4,030,693	29465.8	3,538,096	27559.5	3,136,224	27555.4	3,135,931	0.01	0.01

Undesired		Total IX	Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	274.1	62,740	24.2	3,865		

WTXF-TV D31 DT APP	318.4	67,357			28.2	4,158
WETA-TV D31 DT CP	123.2	61,960	0.0	0	0.0	0
WMPT D31 DT BL	274.0	147,134	23.8	3,875	23.8	3,875
WATM-TV D31 DT CP	75.8	2,368	75.8	2,368	75.8	2,368
WBOC-TV D32 DT CP	1293.3	299,896	701.8	93,987	701.8	93,987
WUTV D32 DT CP	15.9	46	15.9	46	15.9	46
WLIW D32 DT CP	132.7	39,749	20.1	7,579	20.1	7,579
WCAV D32 DT CP	267.3	50,409	176.0	21,950	176.0	21,950
WPXV-TV D32 DT CP	51.7	32,521	4.0	1,593	4.0	1,593
WHUT-TV D33 DT APP	71.5	45,547	0.0	0	0.0	0
WPSG D33 DT CP	475.1	103,089	136.9	25,880	112.7	23,436
WQPX-TV D33 DT CP	7.9	242	7.9	242	7.9	242

Interference to BLANK0000072963 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	142.5 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	142.5
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	156.1
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	150.1
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	135.5
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	230.0
	WUTV	D32	DT	CP	BUFFALO, NY	BLANK0000075316	343.4
	WLIW	D32	DT	CP	GARDEN CITY, NY	BLANK0000074687	244.7
	WCAV	D32	DT	CP	CHARLOTTESVILLE, VA	BLANK0000034188	296.9
	WPXV-TV	D32	DT	CP	NORFOLK, VA	BLANK0000068420	393.8
	WHUT-TV	D33	DT	LIC	WASHINGTON, DC	BLEDT20071018AIJ	156.1
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	142.2
	WQPX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	154.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33691.4	4,030,693	29465.8	3,538,096	27559.5	3,136,224	27555.4	3,135,931	0.01	0.01

Undesired		Total IX		Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	274.1	62,740		24.2	3,865		
WTXF-TV D31 DT APP	318.4	67,357				28.2	4,158
WETA-TV D31 DT CP	123.2	61,960		7.9	1,102	7.9	1,102
WMPT D31 DT BL	274.0	147,134		23.8	3,875	23.8	3,875
WATM-TV D31 DT CP	75.8	2,368		75.8	2,368	75.8	2,368
WBOC-TV D32 DT CP	1293.3	299,896		701.8	93,987	701.8	93,987
WUTV D32 DT CP	15.9	46		15.9	46	15.9	46
WLIW D32 DT CP	132.7	39,749		20.1	7,579	20.1	7,579

WCAV D32 DT CP	267.3	50,409	176.0	21,950	176.0	21,950
WPXV-TV D32 DT CP	51.7	32,521	4.0	1,593	4.0	1,593
WHUT-TV D33 DT LIC	27.8	14,390	0.0	0	0.0	0
WPSG D33 DT CP	475.1	103,089	136.9	25,880	112.7	23,436
WQPX-TV D33 DT CP	7.9	242	7.9	242	7.9	242

Interference to BLANK0000072963 CP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	
Undesireds:	WTXF-TV	D31	DT	BL	PHILADELPHIA, PA	DTVBL51568	142.5 km
	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	142.5
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	156.1
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	150.1
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	135.5
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	230.0
	WUTV	D32	DT	CP	BUFFALO, NY	BLANK0000075316	343.4
	WLIW	D32	DT	CP	GARDEN CITY, NY	BLANK0000074687	244.7
	WCAV	D32	DT	CP	CHARLOTTESVILLE, VA	BLANK0000034188	296.9
	WPXV-TV	D32	DT	CP	NORFOLK, VA	BLANK0000068420	393.8
	WHUT-TV	D33	DT	CP	WASHINGTON, DC	BPEDT20120627AAD	156.1
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	142.2
	WQPX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	154.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33691.4	4,030,693	29465.8	3,538,096	27547.6	3,135,407	27543.5	3,135,114	0.01	0.01

Undesired		Total IX	Unique IX, before		Unique IX, after	
WTXF-TV D31 DT BL	274.1	62,740	24.2	3,865		
WTXF-TV D31 DT APP	318.4	67,357			28.2	4,158
WETA-TV D31 DT CP	123.2	61,960	0.0	0	0.0	0
WMPT D31 DT BL	274.0	147,134	23.8	3,875	23.8	3,875
WATM-TV D31 DT CP	75.8	2,368	75.8	2,368	75.8	2,368
WBOC-TV D32 DT CP	1293.3	299,896	697.8	93,691	697.8	93,691
WUTV D32 DT CP	15.9	46	15.9	46	15.9	46
WLIW D32 DT CP	132.7	39,749	20.1	7,579	20.1	7,579
WCAV D32 DT CP	267.3	50,409	172.0	21,279	172.0	21,279
WPXV-TV D32 DT CP	51.7	32,521	4.0	1,593	4.0	1,593
WHUT-TV D33 DT CP	147.0	64,369	11.9	817	11.9	817
WPSG D33 DT CP	475.1	103,089	136.9	25,880	112.7	23,436
WQPX-TV D33 DT CP	7.9	242	7.9	242	7.9	242

Interference to proposal scenario 1
8.06% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	
Undesireds:	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	0.4 km
	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000074279	273.8
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	199.0
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	164.1
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	232.3
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	277.9
	WLIW	D32	DT	CP	GARDEN CITY, NY	BLANK0000074687	127.9
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	142.5

Service area		Terrain-limited		IX-free		Percent IX	
32439.3	10,784,256	30948.4	10,492,549	26582.2	9,647,084	14.11	8.06

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KYW-TV D30 DT CP	188.6	16,778	124.3	11,873	0.40	0.11
WVIT D31 DT CP	344.2	119,391	24.0	4,870	0.08	0.05
WETA-TV D31 DT CP	2503.2	535,418	272.2	48,588	0.88	0.46
WMPT D31 DT BL	3294.7	593,125	1176.2	149,324	3.80	1.42
WSKG-TV D31 DT CP	20.0	3,245	4.0	348	0.01	0.00
WATM-TV D31 DT CP	494.5	91,514	60.2	4,332	0.19	0.04
WLIW D32 DT CP	376.8	213,751	96.2	73,117	0.31	0.70
WHP-TV D32 DT CP	652.3	168,140	189.2	21,208	0.61	0.20

Interference to proposal scenario 2
8.06% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTXF-TV	D31	DT	APP	PHILADELPHIA, PA	WTXF_CP_VPAT_MOD_REV_C	
Undesireds:	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	0.4 km
	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK0000079823	273.8
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	199.0
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	164.1
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	232.3
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	277.9
	WLIW	D32	DT	CP	GARDEN CITY, NY	BLANK0000074687	127.9
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	142.5

Service area		Terrain-limited		IX-free		Percent IX	

32439.3	10,784,256	30948.4	10,492,549	26582.2	9,647,084	14.11	8.06

Undesired		Total IX		Unique IX		Prcnt Unique IX	
KYW-TV D30 DT CP	188.6	16,778	124.3	11,873	0.40	0.11
WVIT D31 DT LIC	344.2	119,391	24.0	4,870	0.08	0.05
WETA-TV D31 DT CP	2503.2	535,418	272.2	48,588	0.88	0.46
WMPT D31 DT BL	3294.7	593,125	1176.2	149,324	3.80	1.42
WSKG-TV D31 DT CP	20.0	3,245	4.0	348	0.01	0.00
WATM-TV D31 DT CP	494.5	91,514	60.2	4,332	0.19	0.04
WLIW D32 DT CP	376.8	213,751	96.2	73,117	0.31	0.70
WHP-TV D32 DT CP	652.3	168,140	189.2	21,208	0.61	0.20