tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: 00707_12112020_W33CR_73081, Model: Longley-Rice
Start: 2020.12.14 13:42:37

Study created: 2020.12.14 13:42:37

Study build station data: LMS TV 2020-12-14

    Proposal: W33CR-D D20 LD APP CHAMBERSBURG, PA
 File number: 00707_12112020_W33CR_73081
 Facility ID: 73081
Station data: User record
   Record ID: 1171
     Country: U.S.

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
No	W19DY-D	D19	LD	CP	CRESAPTOWN, MD	BMPDTL20121012AAA	83.5 km
No	W19EI-D	D19	LD	CP	DUBOIS, PA	BNPDTL20100609AGG	177.6
No	WBYD-CD	D19	DC	LIC	PITTSBURGH, PA	BLANK0000096151	172.8
No	WQAW-LD	D20	LD	LIC	LAKE SHORE, MD	BLANK0000122659	151.3
No	WQAW-LD	D20	LD	CP	LAKE SHORE, MD	BDISDTL20090629AAY	151.3
No	W20EO-D	D20	LD	CP	SALISBURY, MD	BLANK0000072872	260.0
No	W20BL-D	D20	LD	LIC	BATH, NY	BLDTL20120315AAG	254.9
No	WBGH-CD	D20z	DC	LIC	BINGHAMTON, NY	BLANK0000004524	269.8
No	W20CQ-D	D20	LD	LIC	HEMPSTEAD, NY	BLDTL20130912ABS	372.0
No	W20EF-D	D20	LD	LIC	NEW YORK, NY	BLANK0000053224	329.3
No	WWHC-LP	N20	TX	LIC	OLEAN, NY	BLANK0000022154	229.4
No	WWHC-LP	D20	LD	LIC	OLEAN, NY	BLANK0000118115	274.4
No	WWHC-LP	D20	LD	CP	OLEAN, NY	BLANK0000034997	274.4
No	WWHC-LP	D20	LD	APP	OLEAN, NY	BLANK0000105586	274.4
No	DW20CM	N20-	TX	LIC	PORT JERVIS, NY	BLTTL20071129AIS	297.0
No	DW20CM	D20-	LD	CP	PORT JERVIS, NY	BLANK0000056338	337.9
No	WAWW-LP	N20-	TX	LIC	ROCHESTER, NY	BLTTL20121029AAV	343.2
No	WCNY-TV	D20	DT	LIC	SYRACUSE, NY	BLANK0000105277	349.2
No	WLFM-LD	D20z	LD	LIC	CLEVELAND, OH	BLANK0000118809	364.5
No	W20CP-D	D20	LD	LIC	MANSFIELD, PA	BLANK0000091020	202.2
No	WPGH-TV	D20	DT	LIC	PITTSBURGH, PA	BLANK0000112578	197.7
No	W20EI-D	D20	LD	LIC	TOWANDA, PA	BLANK0000120366	210.4
No	W20AD-D	D20	LD	LIC	WILLIAMSPORT, PA	BLDTT20090810AAD	146.2

Yes	WHSV-TV	D20	DT	LIC	Massanutten, VA	BLANK0000063970	249.2
No	WGNT	D20	DT	LIC	PORTSMOUTH, VA	BLANK0000118341	376.2
Yes	WAZT-CD	D20	DC	LIC	VIENNA, VA	BLANK0000081642	101.6
Yes	WAZT-CD	D20	DC	CP	VIENNA, VA	BLANK0000121163	112.8
No	WOVA-LD	D20	LD	LIC	PARKERSBURG, WV	BLANK0000120282	335.6
No	W20DY-D	D20	LD	CP	ROANOKE, WV	BNPDTL20100514AAR	267.5
No	WMPT	D21	DT	LIC	ANNAPOLIS, MD	BLANK0000084314	151.3
No	W21DO-D	D21	LD	CP	DUBOIS, PA	BNPDTL20100609AGH	177.6
No	WHLZ-LD	D21	LD	LIC	Harrisburg, PA	BLANK0000080536	73.7
No	WEFG-LD	D21	LD	CP	PHILADELPHIA, PA	BLANK0000062985	218.3
No	WPNT	D21	DT	LIC	PITTSBURGH, PA	BLANK0000112577	197.7
No	WNEP-TV	D21	DT	LIC	SCRANTON, PA	BLANK0000117109	202.2
No	W23DR-D	D21	LD	CP	ROMNEY, WV	BLANK0000054636	116.8
No	CBLT-DT	D20	DT	LIC	TORONTO, ON	BLANKCANADA234	421.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D20
       Mask: Full Service
   Latitude:  40  3  0.30 N (NAD83)
  Longitude:  77 44 50.90 W
Height AMSL: 720.3 m
       HAAT: 411.0 m
   Peak ERP: 15.0 kW
    Antenna: ERI AL_N_CH_20_H_AZ_FCC_FILE 45.0 deg
Elev Pattrn: ERI AL_AL8L7_CH_20_H_EL
      Tilts: elec 1.75, mech 1.10 @ 175.0 deg
```

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	7.00 kW	363.4 m	56.6 km
45.0	14.8	456.7	65.3
90.0	6.43	516.1	62.0
135.0	1.37	508.2	52.5
180.0	0.129	525.4	38.4
225.0	0.925	167.3	35.4
270.0	0.161	376.1	35.3
315.0	1.72	375.9	49.5

Distance to Canadian border: 324.3 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: 2326.8 km

**Proposal fails distance check to land mobile station: ADAMS PA WQIN471 ch. 19, 66.7 km
**Proposal fails distance check to land mobile station: DAUPHIN PA WQGX586 ch. 19, 88.0 km
**Proposal fails distance check to land mobile station: DAUPHIN PA WQGX586 ch. 19, 85.4 km
**Proposal fails distance check to land mobile station: DAUPHIN PA WQGX586 ch. 19, 77.3 km
**Proposal fails distance check to land mobile station: DAUPHIN PA WQGX586 ch. 19, 79.9 km
**Proposal fails distance check to land mobile station: DAUPHIN PA WQGX586 ch. 19, 81.5 km
**Proposal fails distance check to land mobile station: DAUPHIN PA WQGX587 ch. 19, 88.6 km
**Proposal fails distance check to land mobile station: DAUPHIN PA WQGX587 ch. 19, 79.8 km
**Proposal fails distance check to land mobile station: DAUPHIN PA WQGX587 ch. 19, 95.4 km
**Proposal fails distance check to land mobile station: DAUPHIN PA WQGX587 ch. 19, 94.3 km
**Proposal fails distance check to land mobile station: DAUPHIN PA WQGX587 ch. 19, 89.7 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQBV581 ch. 19, 109.4 km
**Proposal fails contour check to land mobile station: LANCASTER PA WQIN464 ch. 19
**Proposal fails distance check to land mobile station: YORK PA WQBV472 ch. 19, 66.2 km
**Proposal fails distance check to land mobile station: YORK PA WQBV473 ch. 19, 126.6 km
**Proposal fails distance check to land mobile station: YORK PA WQBV573 ch. 19, 95.6 km
**Proposal fails distance check to land mobile station: YORK PA WQBV579 ch. 19, 106.4 km
**Proposal fails distance check to land mobile station: YORK PA WQBV583 ch. 19, 71.4 km
**Proposal fails distance check to land mobile station: YORK PA WQBV584 ch. 19, 90.0 km
**Proposal fails distance check to land mobile station: YORK PA WQBV598 ch. 19, 76.5 km
**Proposal fails distance check to land mobile station: YORK PA WQBV599 ch. 19, 88.4 km
**Proposal fails distance check to land mobile station: YORK PA WQBV600 ch. 19, 98.2 km
**Proposal fails distance check to land mobile station: YORK PA WQGX586 ch. 19, 79.8 km
**Proposal fails distance check to land mobile station: YORK PA WQIN457 ch. 19, 71.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN457 ch. 19, 66.2 km
**Proposal fails distance check to land mobile station: YORK PA WQIN457 ch. 19, 73.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN457 ch. 19, 76.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN458 ch. 19, 76.0 km
**Proposal fails distance check to land mobile station: YORK PA WQIN458 ch. 19, 70.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN458 ch. 19, 71.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN458 ch. 19, 78.0 km
**Proposal fails distance check to land mobile station: YORK PA WQIN459 ch. 19, 100.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN459 ch. 19, 90.2 km
**Proposal fails distance check to land mobile station: YORK PA WQIN459 ch. 19, 102.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN459 ch. 19, 89.7 km

**Proposal fails distance check to land mobile station: YORK PA WQIN460 ch. 19, 98.2 km
**Proposal fails distance check to land mobile station: YORK PA WQIN460 ch. 19, 112.6 km
**Proposal fails distance check to land mobile station: YORK PA WQIN460 ch. 19, 90.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN460 ch. 19, 100.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN461 ch. 19, 66.2 km
**Proposal fails distance check to land mobile station: YORK PA WQIN461 ch. 19, 73.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN461 ch. 19, 79.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN461 ch. 19, 76.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN462 ch. 19, 87.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN462 ch. 19, 102.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN462 ch. 19, 89.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN463 ch. 19, 98.2 km
**Proposal fails distance check to land mobile station: YORK PA WQIN463 ch. 19, 112.6 km
**Proposal fails distance check to land mobile station: YORK PA WQIN463 ch. 19, 103.8 km
**Proposal fails distance check to land mobile station: YORK PA WQIN463 ch. 19, 121.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN463 ch. 19, 90.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN463 ch. 19, 100.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN465 ch. 19, 83.0 km
**Proposal fails distance check to land mobile station: YORK PA WQIN465 ch. 19, 87.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN465 ch. 19, 93.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN465 ch. 19, 84.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN465 ch. 19, 86.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN466 ch. 19, 96.1 km
**Proposal fails distance check to land mobile station: YORK PA WQIN466 ch. 19, 97.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN466 ch. 19, 84.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN466 ch. 19, 86.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN466 ch. 19, 87.6 km
**Proposal fails distance check to land mobile station: YORK PA WQIN466 ch. 19, 90.6 km
**Proposal fails distance check to land mobile station: YORK PA WQIN469 ch. 19, 96.1 km
**Proposal fails distance check to land mobile station: YORK PA WQIN469 ch. 19, 76.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN469 ch. 19, 98.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN469 ch. 19, 81.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN469 ch. 19, 88.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN469 ch. 19, 87.1 km
**Proposal fails distance check to land mobile station: YORK PA WQIN471 ch. 19, 126.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN471 ch. 19, 104.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN471 ch. 19, 77.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN471 ch. 19, 76.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN471 ch. 19, 76.6 km
**Proposal fails distance check to land mobile station: YORK PA WQIN473 ch. 19, 96.2 km
**Proposal fails distance check to land mobile station: YORK PA WQIN473 ch. 19, 90.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN473 ch. 19, 89.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN473 ch. 19, 86.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN473 ch. 19, 80.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN473 ch. 19, 66.0 km

**Proposal fails distance check to land mobile station: YORK PA WQIN474 ch. 19, 96.2 km
**Proposal fails distance check to land mobile station: YORK PA WQIN474 ch. 19, 72.2 km
**Proposal fails distance check to land mobile station: YORK PA WQIN474 ch. 19, 108.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN474 ch. 19, 88.6 km
**Proposal fails distance check to land mobile station: YORK PA WQIN474 ch. 19, 82.0 km
**Proposal fails distance check to land mobile station: YORK PA WQIN475 ch. 19, 76.1 km
**Proposal fails distance check to land mobile station: YORK PA WQIN475 ch. 19, 83.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN475 ch. 19, 91.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN475 ch. 19, 84.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN475 ch. 19, 87.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN475 ch. 19, 103.8 km
**Proposal fails distance check to land mobile station: YORK PA WQIN476 ch. 19, 70.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN476 ch. 19, 95.1 km
**Proposal fails distance check to land mobile station: YORK PA WQIN476 ch. 19, 106.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN476 ch. 19, 99.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN476 ch. 19, 61.0 km
**Proposal fails distance check to land mobile station: YORK PA WQIN477 ch. 19, 77.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN477 ch. 19, 97.2 km
**Proposal fails distance check to land mobile station: YORK PA WQIN477 ch. 19, 99.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN477 ch. 19, 84.6 km
**Proposal fails distance check to land mobile station: YORK PA WQIN477 ch. 19, 61.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN477 ch. 19, 78.8 km
**Proposal fails distance check to land mobile station: YORK PA WQIN481 ch. 19, 91.2 km
**Proposal fails distance check to land mobile station: YORK PA WQIN481 ch. 19, 70.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN481 ch. 19, 103.1 km
**Proposal fails distance check to land mobile station: YORK PA WQIN481 ch. 19, 90.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN481 ch. 19, 100.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN481 ch. 19, 84.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN488 ch. 19, 70.8 km
**Proposal fails distance check to land mobile station: YORK PA WQIN488 ch. 19, 91.0 km
**Proposal fails distance check to land mobile station: YORK PA WQIN488 ch. 19, 84.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN488 ch. 19, 88.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN495 ch. 19, 95.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN495 ch. 19, 103.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN495 ch. 19, 76.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN495 ch. 19, 89.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN495 ch. 19, 82.8 km
**Proposal fails distance check to land mobile station: YORK PA WQIN495 ch. 19, 91.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN497 ch. 19, 72.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN497 ch. 19, 98.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN497 ch. 19, 105.0 km
**Proposal fails distance check to land mobile station: YORK PA WQIN497 ch. 19, 78.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN497 ch. 19, 88.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN497 ch. 19, 80.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN500 ch. 19, 103.7 km

**Proposal fails distance check to land mobile station: YORK PA WQIN500 ch. 19, 70.8 km
**Proposal fails distance check to land mobile station: YORK PA WQIN500 ch. 19, 87.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN500 ch. 19, 92.3 km
**Proposal fails distance check to land mobile station: YORK PA WQIN500 ch. 19, 64.9 km
**Proposal fails distance check to land mobile station: YORK PA WQIN500 ch. 19, 74.5 km
**Proposal fails distance check to land mobile station: YORK PA WQIN502 ch. 19, 103.7 km
**Proposal fails distance check to land mobile station: YORK PA WQIN502 ch. 19, 109.4 km
**Proposal fails distance check to land mobile station: YORK PA WQIN502 ch. 19, 98.6 km
**Proposal fails distance check to land mobile station: YORK PA WQIN502 ch. 19, 92.8 km
**Proposal fails distance check to land mobile station: YORK PA WQIN502 ch. 19, 97.8 km
**Proposal fails distance check to land mobile station: YORK PA WQIN502 ch. 19, 105.2 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 BLANK0000063970 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHSV-TV	D20	DT	LIC	Massanutten, VA	BLANK0000063970	
Undesireds:	W33CR-D	D20	LD	APP	CHAMBERSBURG, PA	00707_12112020_W33CR_7	249.2 km
	WZBJ-CD	D19	DC	LIC	LYNCHBURG, VA	BLANK0000086464	90.6
	WUNC-TV	D20	DT	LIC	CHAPEL HILL, NC	BLANK0000116685	255.9
	WPGH-TV	D20	DT	LIC	PITTSBURGH, PA	BLANK0000112578	265.7
	WGNT	D20	DT	LIC	PORTSMOUTH, VA	BLANK0000118341	290.0
	WAZT-CD	D20	DC	LIC	VIENNA, VA	BLANK0000081642	167.9
	WVPB-TV	D20	DT	BL	HUNTINGTON, WV	DTVBL71657	254.5
	WWCW	D21	DT	LIC	LYNCHBURG, VA	BLANK0000080987	98.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
28219.9	845,666	22596.7	709,269	19289.8	555,891	19265.8	555,539	0.12	0.06

Undesired	Total IX		Unique IX, before		Unique IX, after	
W33CR-D D20 LD APP	35.9	596			23.9	352
WZBJ-CD D19 DC LIC	714.5	84,231	62.9	4,815	62.9	4,815
WUNC-TV D20 DT LIC	1020.9	35,005	205.4	2,815	205.4	2,815
WPGH-TV D20 DT LIC	145.9	210	118.9	70	118.9	70
WGNT D20 DT LIC	2112.6	74,614	1298.9	41,511	1298.9	41,511
WAZT-CD D20 DC LIC	326.2	6,564	232.9	4,474	223.9	4,291

WVPB-TV D20 DT BL	13.0	0	2.0	0	2.0	0
WWCW D21 DT LIC	831.8	85,954	183.4	8,528	183.4	8,528

Interference to BLANK0000063970 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHSV-TV	D20	DT	LIC	Massanutten, VA	BLANK0000063970	
Undesireds:	W33CR-D	D20	LD	APP	CHAMBERSBURG, PA	00707_12112020_W33CR_7	249.2 km
	WZBJ-CD	D19	DC	LIC	LYNCHBURG, VA	BLANK0000086464	90.6
	WUNC-TV	D20	DT	LIC	CHAPEL HILL, NC	BLANK0000116685	255.9
	WPGH-TV	D20	DT	LIC	PITTSBURGH, PA	BLANK0000112578	265.7
	WGNT	D20	DT	LIC	PORTSMOUTH, VA	BLANK0000118341	290.0
	WAZT-CD	D20	DC	CP	VIENNA, VA	BLANK0000121163	178.1
	WVPB-TV	D20	DT	BL	HUNTINGTON, WV	DTVBL71657	254.5
	WWCW	D21	DT	LIC	LYNCHBURG, VA	BLANK0000080987	98.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
28219.9	845,666	22596.7	709,269	19511.6	560,365	19480.7	559,830	0.16	0.10

Undesired		Total IX		Unique IX, before		Unique IX, after	
W33CR-D D20 LD APP	35.9	596				30.9	535
WZBJ-CD D19 DC LIC	714.5	84,231		62.9	4,815	62.9	4,815
WUNC-TV D20 DT LIC	1020.9	35,005		204.4	2,806	204.4	2,806
WPGH-TV D20 DT LIC	145.9	210		131.8	210	128.9	149
WGNT D20 DT LIC	2112.6	74,614		1354.2	43,021	1354.2	43,021
WAZT-CD D20 DC CP	26.1	261		11.0	0	9.0	0
WVPB-TV D20 DT BL	13.0	0		2.0	0	2.0	0
WWCW D21 DT LIC	831.8	85,954		183.4	8,528	183.4	8,528

Interference to BLANK0000081642 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WAZT-CD	D20	DC	LIC	VIENNA, VA	BLANK0000081642	
Undesireds:	W33CR-D	D20	LD	APP	CHAMBERSBURG, PA	00707_12112020_W33CR_7	101.6 km
	WPGH-TV	D20	DT	LIC	PITTSBURGH, PA	BLANK0000112578	239.0
	WHSV-TV	D20	DT	LIC	Massanutten, VA	BLANK0000063970	167.9
	WGNT	D20	DT	LIC	PORTSMOUTH, VA	BLANK0000118341	283.9
	WMPT	D21	DT	LIC	ANNAPOLIS, MD	BLANK0000084314	106.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
8337.7	1,786,051	7331.9	1,691,989	7083.4	1,653,712	7022.0	1,647,762	0.87	0.36

Undesired		Total IX	Unique IX, before		Unique IX, after	
W33CR-D D20 LD APP	90.1	7,925			61.4	5,950
WPGH-TV D20 DT LIC	3.0	2	1.0	2	1.0	2
WHSV-TV D20 DT LIC	219.5	23,766	203.6	21,779	177.8	20,154
WGNT D20 DT LIC	39.9	11,105	25.0	9,118	24.0	8,768
WMPT D21 DT LIC	3.0	5,391	3.0	5,391	3.0	5,391

Interference to BLANK0000121163 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WAZT-CD	D20	DC	CP	VIENNA, VA	BLANK0000121163	
Undesireds:	W33CR-D	D20	LD	APP	CHAMBERSBURG, PA	00707_12112020_W33CR_7	112.8 km
	WPGH-TV	D20	DT	LIC	PITTSBURGH, PA	BLANK0000112578	261.6
	WHSV-TV	D20	DT	LIC	Massanutten, VA	BLANK0000063970	178.1
	WGNT	D20	DT	LIC	PORTSMOUTH, VA	BLANK0000118341	266.0
	WMPT	D21	DT	LIC	ANNAPOLIS, MD	BLANK0000084314	85.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
4055.6	1,932,237	3609.2	1,871,062	3519.6	1,738,021	3517.6	1,738,002	0.06	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
W33CR-D D20 LD APP	10.9	2,513			2.0	19
WPGH-TV D20 DT LIC	1.0	235	0.0	0	0.0	0
WHSV-TV D20 DT LIC	36.8	36,939	29.8	23,085	21.9	20,591
WGNT D20 DT LIC	10.9	14,391	7.0	2,561	7.0	2,561
WMPT D21 DT LIC	48.9	107,160	45.9	93,541	45.9	93,541

Interference to proposal scenario 1
4.14% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W33CR-D	D20	LD	APP	CHAMBERSBURG, PA	00707_12112020_W33CR_7	
Undesireds:	WQAW-LD	D20	LD	LIC	LAKE SHORE, MD	BLANK0000122659	151.3 km
	WWHC-LP	N20	TX	LIC	OLEAN, NY	BLANK0000022154	229.4
	DW20CM	N20-	TX	LIC	PORT JERVIS, NY	BLTTL20071129AIS	297.0
	WPGH-TV	D20	DT	LIC	PITTSBURGH, PA	BLANK0000112578	197.7
	WHSV-TV	D20	DT	LIC	Massanutten, VA	BLANK0000063970	249.2
	WAZT-CD	D20	DC	LIC	VIENNA, VA	BLANK0000081642	101.6
	WHLZ-LD	D21	LD	LIC	Harrisburg, PA	BLANK0000080536	73.7

Service area		Terrain-limited		IX-free		Percent IX	
8254.7	408,806	5741.7	311,303	5437.1	298,400	5.30	4.14

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WQAW-LD D20 LD LIC	2.0	122	0.0	0	0.00	0.00	
WPGH-TV D20 DT LIC	32.1	1,028	12.0	100	0.21	0.03	
WHSV-TV D20 DT LIC	39.2	1,122	26.1	460	0.45	0.15	
WAZT-CD D20 DC LIC	165.2	7,888	154.2	7,407	2.69	2.38	
WHLZ-LD D21 LD LIC	98.1	4,232	83.1	3,569	1.45	1.15	

Interference to proposal scenario 2
4.14% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W33CR-D	D20	LD	APP	CHAMBERSBURG, PA	00707_12112020_W33CR_7	
Undesireds:	WQAW-LD	D20	LD	CP	LAKE SHORE, MD	BDISDTL20090629AAY	151.3 km
	WWHC-LP	N20	TX	LIC	OLEAN, NY	BLANK0000022154	229.4
	DW20CM	N20-	TX	LIC	PORT JERVIS, NY	BLTTL20071129AIS	297.0
	WPGH-TV	D20	DT	LIC	PITTSBURGH, PA	BLANK0000112578	197.7
	WHSV-TV	D20	DT	LIC	Massanutten, VA	BLANK0000063970	249.2
	WAZT-CD	D20	DC	LIC	VIENNA, VA	BLANK0000081642	101.6
	WHLZ-LD	D21	LD	LIC	Harrisburg, PA	BLANK0000080536	73.7

Service area		Terrain-limited		IX-free		Percent IX	
8254.7	408,806	5741.7	311,303	5437.1	298,400	5.30	4.14

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WQAW-LD D20 LD CP	2.0	122	0.0	0	0.00	0.00	
WPGH-TV D20 DT LIC	32.1	1,028	12.0	100	0.21	0.03	
WHSV-TV D20 DT LIC	39.2	1,122	26.1	460	0.45	0.15	
WAZT-CD D20 DC LIC	165.2	7,888	154.2	7,407	2.69	2.38	
WHLZ-LD D21 LD LIC	98.1	4,232	83.1	3,569	1.45	1.15	

Interference to proposal scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W33CR-D	D20	LD	APP	CHAMBERSBURG, PA	00707_12112020_W33CR_7	
Undesireds:	WQAW-LD	D20	LD	LIC	LAKE SHORE, MD	BLANK0000122659	151.3 km
	WWHC-LP	N20	TX	LIC	OLEAN, NY	BLANK0000022154	229.4
	DW20CM	N20-	TX	LIC	PORT JERVIS, NY	BLTTL20071129AIS	297.0
	WPGH-TV	D20	DT	LIC	PITTSBURGH, PA	BLANK0000112578	197.7

	WHSV-TV	D20	DT	LIC	Massanutten, VA	BLANK0000063970	249.2
	WAZT-CD	D20	DC	CP	VIENNA, VA	BLANK0000121163	112.8
	WHLZ-LD	D21	LD	LIC	Harrisburg, PA	BLANK0000080536	73.7

Service area		Terrain-limited		IX-free		Percent IX	
8254.7	408,806	5741.7	311,303	5590.3	305,807	2.64	1.77

Undesired			Total IX		Unique IX	Prcnt Unique IX	
WQAW-LD	D20	LD LIC	2.0	122	0.0	0	0.00	0.00
WPGH-TV	D20	DT LIC	32.1	1,028	13.0	116	0.23	0.04
WHSV-TV	D20	DT LIC	39.2	1,122	33.2	899	0.58	0.29
WAZT-CD	D20	DC CP	5.0	207	1.0	0	0.02	0.00
WHLZ-LD	D21	LD LIC	98.1	4,232	83.1	3,546	1.45	1.14

Interference to proposal scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W33CR-D	D20	LD	APP	CHAMBERSBURG, PA	00707_12112020_W33CR_7	
Undesireds:	WQAW-LD	D20	LD	CP	LAKE SHORE, MD	BDISDTL20090629AAY	151.3 km
	WWHC-LP	N20	TX	LIC	OLEAN, NY	BLANK0000022154	229.4
	DW20CM	N20-	TX	LIC	PORT JERVIS, NY	BLTTL20071129AIS	297.0
	WPGH-TV	D20	DT	LIC	PITTSBURGH, PA	BLANK0000112578	197.7
	WHSV-TV	D20	DT	LIC	Massanutten, VA	BLANK0000063970	249.2
	WAZT-CD	D20	DC	CP	VIENNA, VA	BLANK0000121163	112.8
	WHLZ-LD	D21	LD	LIC	Harrisburg, PA	BLANK0000080536	73.7

Service area		Terrain-limited		IX-free		Percent IX	
8254.7	408,806	5741.7	311,303	5590.3	305,807	2.64	1.77

Undesired			Total IX		Unique IX	Prcnt Unique IX	
WQAW-LD	D20	LD CP	2.0	122	0.0	0	0.00	0.00
WPGH-TV	D20	DT LIC	32.1	1,028	13.0	116	0.23	0.04
WHSV-TV	D20	DT LIC	39.2	1,122	33.2	899	0.58	0.29
WAZT-CD	D20	DC CP	5.0	207	1.0	0	0.02	0.00
WHLZ-LD	D21	LD LIC	98.1	4,232	83.1	3,546	1.45	1.14