

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Salisbury28dFP, Model: Longley-Rice
Start: 2018.05.17 11:48:30

Study created: 2018.05.17 11:48:29

Study build station data: LMS TV 2018-05-14

Proposal: WNDC-LP D28 LD APP SALISBURY, MD
Facility ID: 130443
Station data: User record
Record ID: 715
Country: U.S.

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

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WETA-TV	D27	DT	LIC	WASHINGTON, DC	BLEDT20120731ALN	126.8 km
No	WEVD-LD	N27+	TX	LIC	DOVER, DE	BLTTL19870929IH	78.9
Yes	WMAR-TV	D27	DT	CP	BALTIMORE, MD	BLANK0000026796	121.8
Yes	W27DO-D	D27	LD	CP	SALISBURY, MD	BNPDTL20100817AAQ	15.9
No	WPSJ-CD	D27	DC	CP	HAMMONTON, NJ	BLANK0000033831	176.1
No	WJGN-CD	D27	DC	CP	CHESAPEAKE, VA	BLANK0000025319	190.3
No	WVBN-LP	D27	LD	CP	VIRGINIA BEACH, VA	BDISDTL20091106ADI	190.3
No	WHPX-TV	D28	DT	CP	NEW LONDON, CT	BLANK0000034398	442.5
Yes	WFPT	D28	DT	CP	FREDERICK, MD	BLANK0000029876	160.4
Yes	WFPT	D28	DT	LIC	FREDERICK, MD	BLEDT20090330AFA	160.4
Yes	WCPB	D28	DT	LIC	SALISBURY, MD	BLEDT20090209AEM	17.9
No	WRDC	D28	DT	LIC	DURHAM, NC	BLCDT20090612AID	400.3
No	WMYV	D28	DT	CP	GREENSBORO, NC	BLANK0000034498	465.5
No	WUNM-TV	D28	DT	CP	JACKSONVILLE, NC	BLANK0000034444	403.6
No	W28CJ-D	D28	LD	LIC	MANTEO, NC	BLDTL20150311AAM	293.2
No	W28EC-D	D28	LD	CP	NEW BERN, NC	BMPDTL20110502ACA	392.4
No	W28ES-D	D28z	LD	LIC	New York, NY	BLANK0000052790	284.0
No	WEPT-CD	D28	DC	CP	NEWBURGH, NY	BLANK0000034537	386.9

No	WPCB-TV	D28	DT	CP	GREENSBURG, PA	BLANK0000034177	405.9
Yes	WFPA-CD	D28	DC	LIC	PHILADELPHIA, PA	BLANK0000001669	176.5
Yes	WCAU	D28	DT	CP	PHILADELPHIA, PA	BLANK0000034346	176.5
No	W28DP-D	D28	LD	LIC	POTTSVILLE, PA	BLDDTT20091009ADU	244.9
No	WBRE-TV	D28	LD	LIC	WILKES-BARRE, PA	BLCDT20091211ADO	348.9
Yes	WRIC-TV	D28	DT	CP	PETERSBURG, VA	BLANK0000034784	196.9
No	WWBK-LD	D28	LD	LIC	RICHMOND, VA	BLANK0000001612	196.9
No	WWBK-LD	D28	LD	CP	RICHMOND, VA	BLANK0000004166	196.9
No	W28EM-D	D28	LD	CP	ROANOKE, VA	BDCCDTT20120710ABX	403.8
No	WMPB	D29	DT	LIC	BALTIMORE, MD	BLEDT20090330AEX	138.5
No	WWPB	D29	DT	CP	HAGERSTOWN, MD	BLANK0000034108	231.3
No	WMDT	D29	DT	CP	SALISBURY, MD	BLANK0000027459	0.0
No	W45CP-D	D29	LD	APP	ATLANTIC CITY, NJ	BLANK0000051787	169.7
No	WELL-LD	D29	LD	APP	PHILADELPHIA, PA	BLANK0000051711	176.1
No	WCVW	D29	DT	CP	RICHMOND, VA	BLANK0000034129	196.9
No	WVBT	D29	DT	LIC	VIRGINIA BEACH, VA	BLCDT20020326ABB	198.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D28
Mask: Full Service
Latitude: 38 30 6.40 N (NAD83)
Longitude: 75 44 7.40 W
Height AMSL: 282.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 0.50

50.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	274.2 m	55.0 km
45.0	15.0	275.2	55.1

90.0	15.0	268.7	54.7
135.0	15.0	269.7	54.8
180.0	15.0	275.1	55.1
225.0	15.0	279.6	55.3
270.0	15.0	279.5	55.3
315.0	15.0	272.9	54.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 274 m

Distance to Canadian border: 551.3 km

Distance to Mexican border: 2420.6 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 308.4 degrees Distance: 119.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 283.5 degrees Distance: 2530.5 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 BLANK0000026796 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMAR-TV	D27	DT	CP	BALTIMORE, MD	BLANK0000026796	
Undesireds:	WNDC-LP	D28	LD	APP	SALISBURY, MD		121.8 km
	WBFF	D26	DT	CP	BALTIMORE, MD	BLANK0000025699	0.2

WQAV-CD	D26	DC	CP	GLASSBORO, NJ	BLANK0000034526	161.4
WYLN-LP	D26+	DC	CP	HAZLETON, PA	BLANK0000034698	191.0
WAZT-CD	D26	DC	BL	WOODSTOCK, VA	DTVBL168449	150.7
WUNP-TV	D27	DT	CP	ROANOKE RAPIDS, NC	BLANK0000034416	353.9
WPSJ-CD	D27	DC	CP	HAMMONTON, NJ	BLANK0000033831	144.0
WIVT	D27	DT	CP	BINGHAMTON, NY	BLANK0000028447	308.8
WNYW	D27	DT	CP	NEW YORK, NY	BLANK0000034611	271.8
WTAE-TV	D27	DT	CP	PITTSBURGH, PA	BLANK0000034565	288.9
WJGN-CD	D27	DC	CP	CHESAPEAKE, VA	BLANK0000025319	276.2
WPXR-TV	D27	DT	CP	ROANOKE, VA	BLANK0000034915	387.6
WFPT	D28	DT	CP	FREDERICK, MD	BLANK0000029876	57.5
WCAU	D28	DT	CP	PHILADELPHIA, PA	BLANK0000034346	144.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
29683.0	9,187,144	28888.5	9,080,828	28056.2	8,937,441	28054.2	8,937,436	0.01	0.00

Undesired			Total IX	Unique IX, before		Unique IX, after	
WNDC-LP	D28 LD APP	2.0	5			2.0	5
WBFF	D26 DT CP	12.0	7,093	10.0	6,950	10.0	6,950
WAZT-CD	D26 DC BL	12.9	201	9.9	158	9.9	158
WUNP-TV	D27 DT CP	18.0	1,040	14.0	844	14.0	844
WPSJ-CD	D27 DC CP	429.9	74,155	217.2	17,874	217.2	17,874
WIVT	D27 DT CP	48.2	12,324	33.1	4,600	33.1	4,600
WNYW	D27 DT CP	33.1	12,465	13.0	3,423	13.0	3,423
WTAE-TV	D27 DT CP	2.0	305	1.0	262	1.0	262
WJGN-CD	D27 DC CP	1.0	3	0.0	0	0.0	0
WPXR-TV	D27 DT CP	3.0	193	0.0	0	0.0	0
WFPT	D28 DT CP	242.1	19,809	238.1	19,666	238.1	19,666
WCAU	D28 DT CP	272.9	81,913	62.2	25,342	62.2	25,342

Interference to BNPDTL20100817AAQ CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W27DO-D	D27	LD	CP	SALISBURY, MD	BNPDTL20100817AAQ	
Undesireds:	WNDC-LP	D28	LD	APP	SALISBURY, MD		15.9 km
	WMAR-TV	D27	DT	CP	BALTIMORE, MD	BLANK0000026796	137.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
4525.4	262,439	4525.4	262,439	4262.0	252,640	4262.0	252,640	0.00	0.00
Undesired			Total IX		Unique IX, before		Unique IX, after		
WNDC-LP D28 LD APP		4.0	5			0.0	0		
WMAR-TV D27 DT CP		263.4	9,799		263.4 9,799	259.3	9,794		

Interference to BLANK0000029876 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFPT	D28	DT	CP	FREDERICK, MD	BLANK0000029876	
Undesireds:	WNDC-LP	D28	LD	APP	SALISBURY, MD		160.4 km
	WMAR-TV	D27	DT	CP	BALTIMORE, MD	BLANK0000026796	57.5
	WPCB-TV	D28	DT	CP	GREENSBURG, PA	BLANK0000034177	245.5
	WCAU	D28	DT	CP	PHILADELPHIA, PA	BLANK0000034346	197.7
	WRIC-TV	D28	DT	CP	PETERSBURG, VA	BLANK0000034784	195.9
	WWPB	D29	DT	CP	HAGERSTOWN, MD	BLANK0000034108	71.3
	WMDT	D29	DT	CP	SALISBURY, MD	BLANK0000027459	160.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
11101.3	5,845,160	9780.4	5,467,361	7574.8	3,825,750	7565.8	3,820,887	0.12	0.13
Undesired			Total IX		Unique IX, before		Unique IX, after		
WNDC-LP D28 LD APP		379.8	454,959			9.0	4,863		
WMAR-TV D27 DT CP		1234.2	1,094,839		738.5 535,299	659.9	450,499		
WPCB-TV D28 DT CP		16.9	5,224		0.0 0	0.0	0		
WCAU D28 DT CP		900.4	597,016		279.8 42,909	273.8	35,387		
WRIC-TV D28 DT CP		947.3	890,461		394.3 397,833	376.3	375,846		
WWPB D29 DT CP		120.9	13,044		51.5 5,704	47.5	5,518		

Interference to BLANK0000029876 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFPT	D28	DT	CP	FREDERICK, MD	BLANK0000029876	

Undesireds:	WNDC-LP	D28	LD	APP	SALISBURY, MD		160.4 km
	WMAR-TV	D27	DT	CP	BALTIMORE, MD	BLANK00000026796	57.5
	WPCB-TV	D28	DT	CP	GREENSBURG, PA	BLANK00000034177	245.5
	WCAU	D28	DT	CP	PHILADELPHIA, PA	BLANK00000034346	197.7
	WRIC-TV	D28	DT	BL	PETERSBURG, VA	DTVBL74416	195.9
	WWPB	D29	DT	CP	HAGERSTOWN, MD	BLANK00000034108	71.3
	WMDT	D29	DT	CP	SALISBURY, MD	BLANK00000027459	160.4

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
11101.3	5,845,160	9780.4	5,467,361	7602.8	3,853,529	7592.8	3,847,504	0.13	0.16

Undesired				Total IX	Unique IX, before	Unique IX, after
WNDC-LP D28 LD APP	379.8	454,959		10.0	6,025	
WMAR-TV D27 DT CP	1234.2	1,094,839	744.4	539,283	665.9	454,483
WPCB-TV D28 DT CP	16.9	5,224	0.0	0	0.0	0
WCAU D28 DT CP	900.4	597,016	277.8	42,948	271.8	35,426
WRIC-TV D28 DT BL	909.4	851,589	366.3	370,054	349.4	349,229
WWPB D29 DT CP	120.9	13,044	49.5	5,415	45.6	5,229

Interference to BLEDT20090330AFA LIC scenario 1

**IX: 1.62% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFPT	D28	DT	LIC	FREDERICK, MD	BLEDT20090330AFA	
Undesireds:	WNDC-LP	D28	LD	APP	SALISBURY, MD		160.4 km
	WETA-TV	D27	DT	LIC	WASHINGTON, DC	BLEDT20120731ALN	39.9
	WCPB	D28	DT	LIC	SALISBURY, MD	BLEDT20090209AEM	177.9
	WFPA-CD	D28	DC	LIC	PHILADELPHIA, PA	BLANK00000001669	197.7
	WMPB	D29	DT	LIC	BALTIMORE, MD	BLEDT20090330AEX	50.2

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
10186.3	4,824,483	8860.5	4,448,907	7778.2	3,065,611	7734.5	3,016,080	0.56	1.62

Undesired				Total IX	Unique IX, before	Unique IX, after
WNDC-LP D28 LD APP	345.0	429,006		43.7	49,531	

WETA-TV D27 DT LIC	617.5	1,158,552	470.2	917,997	382.6	817,763
WCPB D28 DT LIC	327.9	349,826	126.1	33,385	76.4	14,908
WFPB-D28 DC LIC	7.0	2,320	1.0	6	0.0	0
WMPB D29 DT LIC	384.5	238,914	266.3	107,805	251.4	91,128

Interference to BLEDT20090209AEM LIC scenario 1

**IX: 77.34% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCPB	D28	DT	LIC	SALISBURY, MD	BLEDT20090209AEM	
Undesireds:	WNDC-LP	D28	LD	APP	SALISBURY, MD		17.9 km
	WFPT	D28	DT	CP	FREDERICK, MD	BLANK00000029876	177.9
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	14235.1 500,176		14235.1 500,176		14235.1 500,176	1283.1 113,348	90.99 77.34
Undesired				Total IX	Unique IX, before	Unique IX, after	
WNDC-LP D28 LD APP				12952.0 386,828		12952.0 386,828	

Interference to BLANK0000001669 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFPB-D28	D28	DC	LIC	PHILADELPHIA, PA	BLANK0000001669	
Undesireds:	WNDC-LP	D28	LD	APP	SALISBURY, MD		176.5 km
	WFPT	D28	DT	CP	FREDERICK, MD	BLANK00000029876	197.7
	WCPB	D28	DT	LIC	SALISBURY, MD	BLEDT20090209AEM	186.6
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	5757.0 4,092,060		5710.9 4,084,187		5706.9 4,083,418	5706.9 4,083,418	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
WNDC-LP D28 LD APP				1.0 589		0.0 0	
WCPB D28 DT LIC				4.0 769	4.0 769	3.0 180	

Interference to BLANK0000034346 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCAU	D28	DT	CP	PHILADELPHIA, PA	BLANK0000034346	
Undesireds:	WNDC-LP	D28	LD	APP	SALISBURY, MD		176.5 km
	WMAR-TV	D27	DT	CP	BALTIMORE, MD	BLANK0000026796	144.3
	WPSJ-CD	D27	DC	CP	HAMMONTON, NJ	BLANK0000033831	0.3
	WNYW	D27	DT	CP	NEW YORK, NY	BLANK0000034611	127.6
	WHPX-TV	D28	DT	CP	NEW LONDON, CT	BLANK0000034398	298.1
	WFPT	D28	DT	CP	FREDERICK, MD	BLANK0000029876	197.7
	WEPT-CD	D28	DC	CP	NEWBURGH, NY	BLANK0000034537	213.6
	WWDG-CD	D28	DC	LIC	UTICA, NY	BLANK0000001609	344.7
	WPCB-TV	D28	DT	CP	GREENSBURG, PA	BLANK0000034177	387.7
	WRIC-TV	D28	DT	CP	PETERSBURG, VA	BLANK0000034784	347.8
	WMDT	D29	DT	CP	SALISBURY, MD	BLANK0000027459	176.5
	WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDT20090223ABU	204.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
34597.2	11,244,698	33441.7	11,076,119	32818.0	10,855,755	32450.4 10,833,031	1.12 0.21
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNDC-LP	D28 LD APP	426.1	32,482			367.6	22,724
WMAR-TV	D27 DT CP	249.0	22,335	207.3	19,254	188.5	16,439
WNYW	D27 DT CP	223.3	160,300	159.5	90,119	158.5	90,041
WHPX-TV	D28 DT CP	111.5	81,722	31.8	9,367	28.8	8,713
WFPT	D28 DT CP	101.8	16,646	53.1	8,018	49.1	7,419
WEPT-CD	D28 DC CP	59.6	32,276	33.8	14,515	33.8	14,515
WRIC-TV	D28 DT CP	36.8	5,614	9.9	2,675	3.0	13

Interference to BLANK0000034346 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCAU	D28	DT	CP	PHILADELPHIA, PA	BLANK0000034346	
Undesireds:	WNDC-LP	D28	LD	APP	SALISBURY, MD		176.5 km

WMAR-TV	D27	DT	CP	BALTIMORE, MD	BLANK00000026796	144.3
WPSJ-CD	D27	DC	CP	HAMMONTON, NJ	BLANK00000033831	0.3
WNYW	D27	DT	CP	NEW YORK, NY	BLANK00000034611	127.6
WHPX-TV	D28	DT	CP	NEW LONDON, CT	BLANK00000034398	298.1
WFPT	D28	DT	CP	FREDERICK, MD	BLANK00000029876	197.7
WEPT-CD	D28	DC	CP	NEWBURGH, NY	BLANK00000034537	213.6
WWDG-CD	D28	DC	LIC	UTICA, NY	BLANK00000001609	344.7
WPCB-TV	D28	DT	CP	GREENSBURG, PA	BLANK00000034177	387.7
WRIC-TV	D28	DT	BL	PETERSBURG, VA	DTVBL74416	347.9
WMDT	D29	DT	CP	SALISBURY, MD	BLANK00000027459	176.5
WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDT20090223ABU	204.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
34597.2 11,244,698	33441.7 11,076,119	32820.0 10,856,992	32451.4 10,833,031	1.12 0.22

Undesired	Total IX	Unique IX, before	Unique IX, after
WNDC-LP D28 LD APP 426.1	32,482	368.6 23,961	
WMAR-TV D27 DT CP 249.0	22,335	208.3 19,263	
WNYW D27 DT CP 223.3	160,300	159.5 90,119	
WHPX-TV D28 DT CP 111.5	81,722	31.8 9,367	
WFPT D28 DT CP 101.8	16,646	54.1 8,199	
WEPT-CD D28 DC CP 59.6	32,276	33.8 14,515	
WRIC-TV D28 DT BL 30.9	3,945	7.9 1,438	
		2.0 13	

Interference to BLANK00000034784 CP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WRIC-TV	D28	DT	CP	PETERSBURG, VA	BLANK00000034784	
Undesireds: WNDC-LP	D28	LD	APP	SALISBURY, MD		196.9 km
WUNP-TV	D27	DT	CP	ROANOKE RAPIDS, NC	BLANK00000034416	137.3
WJGN-CD	D27	DC	CP	CHESAPEAKE, VA	BLANK00000025319	132.1
WFPT	D28	DT	CP	FREDERICK, MD	BLANK00000029876	195.9
WMYV	D28	DT	CP	GREENSBORO, NC	BLANK00000034498	269.6
WUNM-TV	D28	DT	CP	JACKSONVILLE, NC	BLANK00000034444	268.7
WPCB-TV	D28	DT	CP	GREENSBURG, PA	BLANK00000034177	371.4
WCAU	D28	DT	CP	PHILADELPHIA, PA	BLANK00000034346	347.8

WMDT	D29	DT	CP	SALISBURY, MD	BLANK00000027459	196.9
WCVW	D29	DT	CP	RICHMOND, VA	BLANK00000034129	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
33426.0	2,052,265	32860.3	1,996,684	32269.5	1,972,712	32079.9	1,967,124	0.59 0.28

Undesired		Total IX		Unique IX, before		Unique IX, after
WNDC-LP D28 LD APP	255.0	6,411			189.6	5,588
WUNP-TV D27 DT CP	171.6	1,546	145.5	938	145.5	938
WJGN-CD D27 DC CP	43.9	1,983	43.9	1,983	43.9	1,983
WFPT D28 DT CP	82.4	1,934	39.2	1,650	38.2	1,650
WMYV D28 DT CP	228.4	16,600	192.4	16,051	191.4	16,051
WUNM-TV D28 DT CP	49.1	669	7.0	0	7.0	0
WCAU D28 DT CP	117.7	2,669	74.5	2,385	34.2	1,759

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNDC-LP	D28	LD	APP	SALISBURY, MD		
Undesireds:	WWBK-LD	D28	LD	LIC	RICHMOND, VA	BLANK0000001612	196.9 km

Service area		Terrain-limited		IX-free		Percent IX
9515.5	431,028	9515.5	431,028	9515.5	431,028	0.00 0.00