INTERFERENCE ANALYSIS FOR PROPOSED WNYT, ALBANY, NY, CHANNEL 12

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tvstudy v2.2.5 (4uoc83)
Database: localhost,  Study: wnyt01,  Model: Longley-Rice

Study build station data: LMS TV 2020-11-17

    Proposal: WNYT01 D12 DT APP ALBANY, NY
 File number: wnyt01
 Facility ID: 73363
Station data: User record
   Record ID: 4414
     Country: U.S.
        Zone: I

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

Stations potentially affected by proposal:

IX   Call      Chan       Svc Status  City, State              File Number             Distance
Yes  WWLP      D11        DT  LIC     SPRINGFIELD, MA          BLANK0000125118         123.0 km
No   WENH-TV   D11        DT  APP     DURHAM, NH               BLANK0000035771         236.2
No   WENH-TV   D11        DT  LIC     DURHAM, NH               BLEDT20090817ABS        236.2
No   WPIX      D11        DT  CP      NEW YORK, NY             BMPCDT20080620ALB       212.6
No   WPIX      D11        DT  LIC     NEW YORK, NY             BLCDT20090911ABN        208.6
No   WBRE-TV   D11        DT  LIC     WILKES-BARRE, PA         BLCDT20051123AJX        222.4
No   WBAL-TV   D12        DT  LIC     BALTIMORE, MD            BLANK0000120167         427.6
Yes  WNET      D12        DT  LIC     NEWARK, NJ               BLANK0000117719         212.6
Yes  WYOU      D12        DT  LIC     SCRANTON, PA             BLANK0000116962         222.4
Yes  WNAC-TV   D12        DT  LIC     PROVIDENCE, RI           BLCDT20090612AFT        239.4
Yes  WGBY-TV   D13        DT  LIC     SPRINGFIELD, MA          BLANK0000079844         119.6
No   WNYI      D13        DT  LIC     ITHACA, NY               BLANK0000080187         199.1
No   CHEX-DT   D12        DT  LIC     PETERBOROUGH, ON         BLANKCANADA212          394.3
No   CFCF-DT   D12        DT  LIC     MONTRAL, QC              BLANKCANADA273          321.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D12
   Latitude:  42 37 31.30 N (NAD83)
  Longitude:  74  0 36.70 W
Height AMSL: 668.8 m
       HAAT: 414.0 m
   Peak ERP: 86.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
  Elec Tilt: 1.00

36.0 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg   86.0 kW   547.4 m  130.9 km
 45.0       86.0      573.3    133.2
 90.0       86.0      579.0    133.6
135.0       86.0      509.2    127.9
180.0       86.0      283.8    109.1
225.0       86.0      201.3    102.9
270.0       86.0      331.9    112.8
315.0       86.0      287.4    109.3

ERP exceeds maximum
ERP: 86.0 kW    ERP maximum: 10.9 kW  (Proposal meets the 'largest station in the market' rule based on WRGB, Schenectady, NY, Ch. 6.)

**Proposal is within coordination distance of Canadian border
Distance to Canadian border: 247.1 km

Distance to Mexican border: 2785.3 km

Conditions at FCC monitoring station: Canandaigua NY
Bearing: 278.0 degrees   Distance: 267.6 km
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Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 274.6 degrees Distance: 2602.6 km

Study cell size: 2.00 km
Profile point spacing: 0.10 km (Higher resolution terrain profile point spacing is requested.)

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

Interference to BLANK0000125118 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWLP	D11	DT	LIC	SPRINGFIELD, MA	BLANK0000125118	
Undesireds:	WNYT	D12	DT	BL	ALBANY, NY	DTVBL73363	123.0 km
	WNYT01	D12	DT	APP	ALBANY, NY	wnyt01	123.0
	WTNH	D10	DT	LIC	NEW HAVEN, CT	BLANK0000056790	76.4
	WENH-TV	D11	DT	APP	DURHAM, NH	BLANK0000035771	172.2
	WPIX	D11	DT	CP	NEW YORK, NY	BMPCDT20080620ALB	187.5
	WBRE-TV	D11	DT	LIC	WILKES-BARRE, PA	BLCDT20051123AJX	281.8
	WNAC-TV	D12	DT	LIC	PROVIDENCE, RI	BLCDT20090612AFT	119.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
23667.7	3,838,272	20174.8	3,219,611	19015.5	2,982,132	19007.6	2,982,025	0.04 → 0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WNYT D12 DT BL	4.0	55	0.0	0		
WNYT01 D12 DT APP	24.1	255			8.0	107
WTNH D10 DT LIC	383.8	167,406	210.0	113,852	210.0	113,852
WENH-TV D11 DT APP	711.4	84,095	449.7	37,979	445.7	37,934
WPIX D11 DT CP	362.9	53,463	128.9	7,404	128.9	7,404
WBRE-TV D11 DT LIC	64.5	3,290	12.0	445	12.0	445
WNAC-TV D12 DT LIC	68.1	14,952	4.0	394	4.0	394

Interference to BLANK0000117719 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNET	D12	DT	LIC	NEWARK, NJ	BLANK0000117719	
Undesireds:	WNYT	D12	DT	BL	ALBANY, NY	DTVBL73363	212.6 km
	WNYT01	D12	DT	APP	ALBANY, NY	wnyt01	212.6
	WPIX	D11	DT	CP	NEW YORK, NY	BMPCDT20080620ALB	0.0
	WBAL-TV	D12	DT	LIC	BALTIMORE, MD	BLANK0000120167	271.8
	WYOU	D12	DT	LIC	SCRANTON, PA	BLANK0000116962	164.7
	WNAC-TV	D12	DT	LIC	PROVIDENCE, RI	BLCDT20090612AFT	262.2
	WHYY-TV	D13	DT	LIC	WILMINGTON, DE	BLANK0000124776	127.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
33797.9	21,275,871	31495.6	20,741,000	29831.9	20,315,142	29566.1	20,265,708	0.89 → 0.24

Undesired	Total IX		Unique IX, before		Unique IX, after	
WNYT D12 DT BL	225.2	33,175	76.8	13,178		
WNYT01 D12 DT APP	671.5	113,072			342.6	62,612
WBAL-TV D12 DT LIC	478.4	110,420	76.1	4,754	72.1	4,383
WYOU D12 DT LIC	1184.5	222,215	574.0	85,073	473.6	68,679
WNAC-TV D12 DT LIC	164.0	28,188	20.2	11,446	12.1	8,221
WHYY-TV D13 DT LIC	579.9	276,334	225.4	142,971	225.4	142,971

Interference to BLANK0000116962 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WYOU	D12	DT	LIC	SCRANTON, PA	BLANK0000116962	
Undesireds:	WNYT	D12	DT	BL	ALBANY, NY	DTVBL73363	222.4 km
	WNYT01	D12	DT	APP	ALBANY, NY	wnyt01	222.4
	WPIX	D11	DT	CP	NEW YORK, NY	BMPCDT20080620ALB	164.7

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	WBAL-TV	D12	DT	LIC	BALTIMORE, MD	BLANK0000120167	215.7
	WNET	D12	DT	LIC	NEWARK, NJ	BLANK0000117719	164.7
	WICU-TV	D12	DT	LIC	ERIE, PA	BLANK0000074553	360.8
	WHYY-TV	D13	DT	LIC	WILMINGTON, DE	BLANK0000124776	137.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
41052.9	3,553,761	35407.3	2,853,975	34337.2	2,689,802	34144.7	2,678,917	0.56	0.40

Undesired	Total IX		Unique IX, before		Unique IX, after	
WNYT D12 DT BL	72.2	4,566	36.0	2,472		
WNYT01 D12 DT APP	405.0	30,389			228.5	13,357
WBAL-TV D12 DT LIC	588.8	97,106	260.5	42,037	232.5	38,112
WNET D12 DT LIC	741.6	117,222	397.1	61,262	364.8	59,519
WICU-TV D12 DT LIC	4.0	0	0.0	0	0.0	0
WHYY-TV D13 DT LIC	84.2	9,904	8.0	508	8.0	508

Interference to BLCDT20090612AFT LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNAC-TV	D12	DT	LIC	PROVIDENCE, RI	BLCDT20090612AFT	
Undesireds:	WNYT	D12	DT	BL	ALBANY, NY	DTVBL73363	239.4 km
	WNYT01	D12	DT	APP	ALBANY, NY	wnyt01	239.4
	WWLP	D11	DT	LIC	SPRINGFIELD, MA	BLANK0000125118	119.7
	WENH-TV	D11	DT	APP	DURHAM, NH	BLANK0000035771	144.5
	WNET	D12	DT	LIC	NEWARK, NJ	BLANK0000117719	262.2
	WGBY-TV	D13	DT	LIC	SPRINGFIELD, MA	BLANK0000079844	119.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
32316.5	7,310,183	30698.2	6,971,640	30384.2	6,917,632	30037.2	6,885,679	1.14	0.46

Undesired	Total IX		Unique IX, before		Unique IX, after	
WNYT D12 DT BL	137.0	9,364	44.2	6,345		
WNYT01 D12 DT APP	576.6	65,764			391.2	38,298
WWLP D11 DT LIC	12.0	2,060	4.0	1,073	4.0	1,073
WENH-TV D11 DT APP	84.2	25,813	80.2	23,423	60.1	19,067
WNET D12 DT LIC	153.5	18,538	68.7	18,068	16.1	15
WGBY-TV D13 DT LIC	28.1	2,239	20.1	1,252	4.0	42

Interference to BLANK0000079844 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGBY-TV	D13	DT	LIC	SPRINGFIELD, MA	BLANK0000079844	
Undesireds:	WNYT	D12	DT	BL	ALBANY, NY	DTVBL73363	119.6 km
	WNYT01	D12	DT	APP	ALBANY, NY	wnyt01	119.6
	WNAC-TV	D12	DT	LIC	PROVIDENCE, RI	BLCDT20090612AFT	119.8
	WHYY-TV	D13	DT	LIC	WILMINGTON, DE	BLANK0000124776	326.8
	WNYI	D13	DT	LIC	ITHACA, NY	BLANK0000080187	316.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
32403.5	4,470,009	27986.2	3,874,583	27613.0	3,824,213	27605.0	3,824,273	0.03	-0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WNYT D12 DT BL	80.1	1,423	44.1	820		
WNYT01 D12 DT APP	88.1	1,363			52.1	760
WNAC-TV D12 DT LIC	232.6	40,246	232.6	40,246	232.6	40,246
WHYY-TV D13 DT LIC	68.5	9,045	56.5	8,685	56.5	8,685
WNYI D13 DT LIC	28.0	259	4.0	16	4.0	16

Interference to proposal scenario 1
1.72% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNYT01	D12	DT	APP	ALBANY, NY	wnyt01	
Undesireds:	WWLP	D11	DT	LIC	SPRINGFIELD, MA	BLANK0000125118	123.0 km
	WNET	D12	DT	LIC	NEWARK, NJ	BLANK0000117719	212.6
	WYOU	D12	DT	LIC	SCRANTON, PA	BLANK0000116962	222.4

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WNAC-TV	D12	DT	LIC	PROVIDENCE, RI	BLCDT20090612AFT	239.4
WGBY-TV	D13	DT	LIC	SPRINGFIELD, MA	BLANK0000079844	119.6
CFCF-DT	D12	DT	LIC	MONTRAL, QC	BLANKCANADA273	321.9

Service area		Terrain-limited		IX-free		Percent IX	
45624.6	2,540,674	38795.9	1,964,798	37978.6	1,931,018	2.11	1.72

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WWLP D11 DT LIC	48.0	740	8.0	102	0.02	0.01
WNET D12 DT LIC	172.8	11,566	80.4	5,721	0.21	0.29
WYOU D12 DT LIC	292.4	15,520	212.0	6,105	0.55	0.31
WNAC-TV D12 DT LIC	384.6	17,880	188.2	6,485	0.49	0.33
WGBY-TV D13 DT LIC	228.4	3,997	80.2	1,654	0.21	0.08
CFCF-DT D12 DT LIC	4.0	0	4.0	0	0.01	0.00
