tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WNYN-LD 30 AP exc Grp 51 and PXN, Model: Longley-Rice
Start: 2019.07.10 11:21:41

Study created: 2019.07.10 11:21:41

Study build station data: LMS TV 2019-07-10

    Proposal: WNYN-LD D30 LD APP *P NEW YORK, NY
 File number: BLANK0000048135
 Facility ID: 74305
Station data: LMS TV 2019-07-10
   Record ID: 25076f916810e1fa0168399ef2452be8
     Country: U.S.

Build options:
Protect baseline records from LPTV

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
0000054668   WYXN-LD D30 LD APP *P NEW YORK, NY BLANK0000054668
0000054804   W34DI-D D31+ LD APP *P NEW YORK, NY BLANK0000054804
0000054813   WNJJ-LD D30 LD APP *P PATERSON, NJ BLANK0000054813

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WNYJ-LD	N26-	TX	LIC	New York, NY	BLTTL20070223AHI	89.4 km
No	W26CE	N26-	TX	LIC	NEW YORK, NY	BLTTL20080306ABU	100.8
No	W28AJ	N28z	TX	LIC	ALLINGTOWN, CT	BLTTL20010608AAO	101.6
No	WTXX-LD	D29	LD	CP	SPRINGFIELD, MA	BLANK0000053148	150.2
No	W45CP-D	D29	LD	CP	ATLANTIC CITY, NJ	BLANK0000051787	127.2
No	W49BE-D	D29z	LD	CP	HACKETTSTOWN, NJ	BLANK0000066998	77.3
No	W49BE-D	D29z	LD	LIC	HACKETTSTOWN, NJ	BLANK0000074735	77.3
No	W31EF-D	D29+	LD	APP	West Orange, NJ	BLANK0000054807	1.7
No	WPXU-LD	D29	LD	APP	New york city, NY	BLANK0000051706	0.8
Yes	WLNY-TV	D29	DT	CP	RIVERHEAD, NY	BLANK0000034023	89.2
No	WRGB	D29	LD	CP	SCHENECTADY, NY	BLANK0000054897	132.7
No	WKTV	D29	DT	LIC	UTICA, NY	BLCDT20060630ACL	271.9
No	W29EU-D	D29	LD	LIC	CLARKS SUMMIT, ETC., PA	BLANK0000060867	164.1
No	WELL-LD	D29	LD	CP	PHILADELPHIA, PA	BLANK0000051711	135.0
No	WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDT20090223ABU	269.4
No	WQMY	D29	DT	APP	WILLIAMSPORT, PA	BLANK0000035754	269.4
Yes	WEDH	D30	DT	CP	HARTFORD, CT	BLANK0000034543	140.5
No	WIAV-CD	D30	DC	CP	WASHINGTON, DC	BLANK0000029340	334.8
No	WCRN-LD	D30+	LD	CP	BOSTON, MA	BLANK0000071754	271.3
No	W30DT-D	D30	LD	CP	SALISBURY, MD	BDCCDTL20120628AAS	300.4
Yes	WNMF-LD	D30	LD	CP	ROSELAND, NJ	BLANK0000072006	24.8
No	WYDC	D30	DT	CP	CORNING, NY	BLANK0000034651	301.2
No	W30AZ-D	D30	LD	LIC	ELLENVILLE, NY	BLDTL20141229AGO	116.4
No	WAWW-LP	D30-	LD	APP	ROCHESTER, NY	BLANK0000054618	398.7
No	WUTR	D30	DT	LIC	UTICA, NY	BLCDT20040217ADC	282.7
No	W43CO-D	D30	LD	CP	KINGSTON, PA	BLANK0000054197	172.6
Yes	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	135.1
No	WELL-LD	D30	LD	LIC	PHILADELPHIA, PA	BLDTL20100208AAC	135.0
No	W30DM-D	D30	LD	LIC	MANCHESTER, ETC., VT	BLDTT20111118ARB	275.6
No	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000074279	140.2
No	W31EF-D	D31+	LD	LIC	West Orange, NJ	BLANK0000049440	24.8
No	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	219.2
No	WTXF-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	134.9
No	W32EI-D	N32-	TX	LIC	West Orange, NJ	BLTTL20121024AAB	89.4
No	W34DI-D	N34+	TX	LIC	NEW YORK, NY	BLTTL20070223AHK	89.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D30
       Mask: Full Service
   Latitude:  40 46  2.30 N (NAD83)
  Longitude:  73 57 40.40 W
Height AMSL: 241.0 m
       HAAT: 0.0 m
   Peak ERP: 0.800 kW
    Antenna: KAT-4DR-8-2HN (ID 1004533) 0.0 deg
Elev Pattrn: Generic
```

50.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.008 kW	194.7 m	13.1 km
45.0	0.027	230.9	19.6
90.0	0.613	225.8	35.4
135.0	0.041	220.2	21.2
180.0	0.021	226.3	18.1
225.0	0.001	239.1	9.1
270.0	0.005	228.2	12.2
315.0	0.000	225.6	6.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 224 m

Distance to Canadian border: 394.7 km

Distance to Mexican border: 2677.6 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 234.8 degrees Distance: 301.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 278.8 degrees Distance: 2630.8 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 BLANK0000034023 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLNY-TV	D29	DT	CP	RIVERHEAD, NY	BLANK0000034023	
Undesireds:	WNYN-LD	D30	LD	APP	NEW YORK, NY	BLANK0000048135	89.2 km
	WHPX-TV	D28	DT	CP	NEW LONDON, CT	BLANK0000063882	89.9
	WNEU	D29	DT	CP	MERRIMACK, NH	BLANK0000034700	210.0
	WKTV	D29	DT	LIC	UTICA, NY	BLCDT20060630ACL	296.7
	WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDT20090223ABU	354.0
	WEDH	D30	DT	CP	HARTFORD, CT	BLANK0000034543	89.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
16375.8	7,386,622	16194.6	7,308,935	16019.6	7,237,299	16018.6	7,237,266	0.01	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WNYN-LD D30 LD APP	2.0	6,560			1.0	33
WHPX-TV D28 DT CP	160.9	58,732	40.2	21,787	40.2	21,787
WNEU D29 DT CP	6.0	6,868	3.0	6,545	2.0	18
WKTV D29 DT LIC	17.1	7,151	8.1	5,933	8.1	5,933
WEDH D30 DT CP	122.7	37,206	0.0	0	0.0	0

Interference to BLANK0000034543 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEDH	D30	DT	CP	HARTFORD, CT	BLANK0000034543	
Undesireds:	WNYN-LD	D30	LD	APP	NEW YORK, NY	BLANK0000048135	140.5 km
	WNEU	D29	DT	CP	MERRIMACK, NH	BLANK0000034700	148.0
	WLNY-TV	D29	DT	CP	RIVERHEAD, NY	BLANK0000034023	89.9
	WUTR	D30	DT	LIC	UTICA, NY	BLCDT20040217ADC	250.3
	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	274.1
	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000074279	0.3
	WNCE-CD	D31	DC	LIC	GLENS FALLS, NY	BLDTA20100812ABN	191.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32651.3	5,339,771	28861.9	4,758,563	28085.5	4,559,738	28080.4	4,557,681	0.02	0.05

Undesired	Total IX	Unique IX, before		Unique IX, after	
WNYN-LD D30 LD APP	54.6	26,325		5.1	2,057
WNEU D29 DT CP	85.8	27,582	84.8	27,510	84.8	27,510
WLNY-TV D29 DT CP	253.6	80,311	137.5	34,914	134.5	33,313
WUTR D30 DT LIC	17.2	279	15.2	133	15.2	133
KYW-TV D30 DT CP	367.1	89,306	250.9	41,873	237.8	38,469
WVIT D31 DT CP	182.9	52,408	158.9	46,083	157.8	45,818
WNCE-CD D31 DC LIC	2.0	14	2.0	14	2.0	14

Interference to BLANK0000072006 CP scenario 1
**IX: 3.39% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNMF-LD	D30	LD	CP	ROSELAND, NJ	BLANK0000072006	
Undesireds:	WNYN-LD	D30	LD	APP	NEW YORK, NY	BLANK0000048135	24.8 km
	W49BE-D	D29z	LD	CP	HACKETTSTOWN, NJ	BLANK0000066998	52.5
	W31EF-D	D29+	LD	APP	West Orange, NJ	BLANK0000054807	24.6
	WEDH	D30	DT	CP	HARTFORD, CT	BLANK0000034543	156.5
	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	117.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
362.3	832,821	328.6	812,956	269.0	677,883	260.1	654,926	3.32	3.39

Undesired	Total IX	Unique IX, before		Unique IX, after	
WNYN-LD D30 LD APP	13.9	39,358		8.9	22,957
WEDH D30 DT CP	2.0	1,636	1.0	1,113	0.0	0
KYW-TV D30 DT CP	58.6	133,960	57.6	133,437	53.6	118,149

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:	WNYN-LD	D30	LD	APP	NEW YORK, NY	BLANK0000048135	135.1 km
	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
	WTXF-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	0.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
34688.6	11,224,140	33456.4	11,029,286	33294.2	10,989,711	33236.3	10,939,260	0.17	0.46

Undesired	Total IX	Unique IX, before		Unique IX, after	
WNYN-LD D30 LD APP	66.8	61,823		57.9	50,451
WEDH D30 DT CP	18.9	14,501	14.0	13,563	6.0	3,009
WIAV-CD D30 DC CP	119.4	20,766	73.9	11,077	73.9	11,077
WMPT D31 DT BL	52.4	11,440	11.9	2,689	11.9	2,689
WTXF-TV D31 DT CP	16.9	2,557	16.9	2,557	16.9	2,557

Interference to proposal scenario 1
**MX: 16.74% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNYN-LD	D30	LD	APP	NEW YORK, NY	BLANK0000048135	
Undesireds:	W49BE-D	D29z	LD	CP	HACKETTSTOWN, NJ	BLANK0000066998	77.3 km
	W31EF-D	D29+	LD	APP	West Orange, NJ	BLANK0000054807	1.7
	WEDH	D30	DT	CP	HARTFORD, CT	BLANK0000034543	140.5
	WNMF-LD	D30	LD	CP	ROSELAND, NJ	BLANK0000072006	24.8
	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	135.1

Service area		Terrain-limited		IX-free		Percent IX	
1134.9	8,341,122	1131.9	8,340,695	904.5	6,944,613	20.09	16.74

Undesired	Total IX		Unique IX		Prcnt Unique IX	
W31EF-D D29+ LD APP	84.4	557,879	24.8	274,233	2.19	3.29
WEDH D30 DT CP	2.0	950	0.0	0	0.00	0.00
WNMF-LD D30 LD CP	59.6	261,641	1.0	5,801	0.09	0.07
KYW-TV D30 DT CP	158.9	973,155	133.1	805,440	11.76	9.66

Interference to proposal scenario 2
13.45% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNYN-LD	D30	LD	APP	NEW YORK, NY	BLANK0000048135	
Undesireds:	W49BE-D	D29z	LD	CP	HACKETTSTOWN, NJ	BLANK0000066998	77.3 km
	WEDH	D30	DT	CP	HARTFORD, CT	BLANK0000034543	140.5
	WNMF-LD	D30	LD	CP	ROSELAND, NJ	BLANK0000072006	24.8
	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	135.1

Service area		Terrain-limited		IX-free		Percent IX	
1134.9	8,341,122	1131.9	8,340,695	929.3	7,218,846	17.90	13.45

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WEDH D30 DT CP	2.0	950	0.0	0	0.00	0.00
WNMF-LD D30 LD CP	59.6	261,641	43.7	148,694	3.86	1.78
KYW-TV D30 DT CP	158.9	973,155	141.0	859,258	12.46	10.30