

Main - Auxiliary Contour Comparison and Interference Analysis

WXTV License Partnership, G.P.

WXTV-DT Paterson, NJ Facility ID 74215

Channel 26 240 kW-DA (aux) 224 m

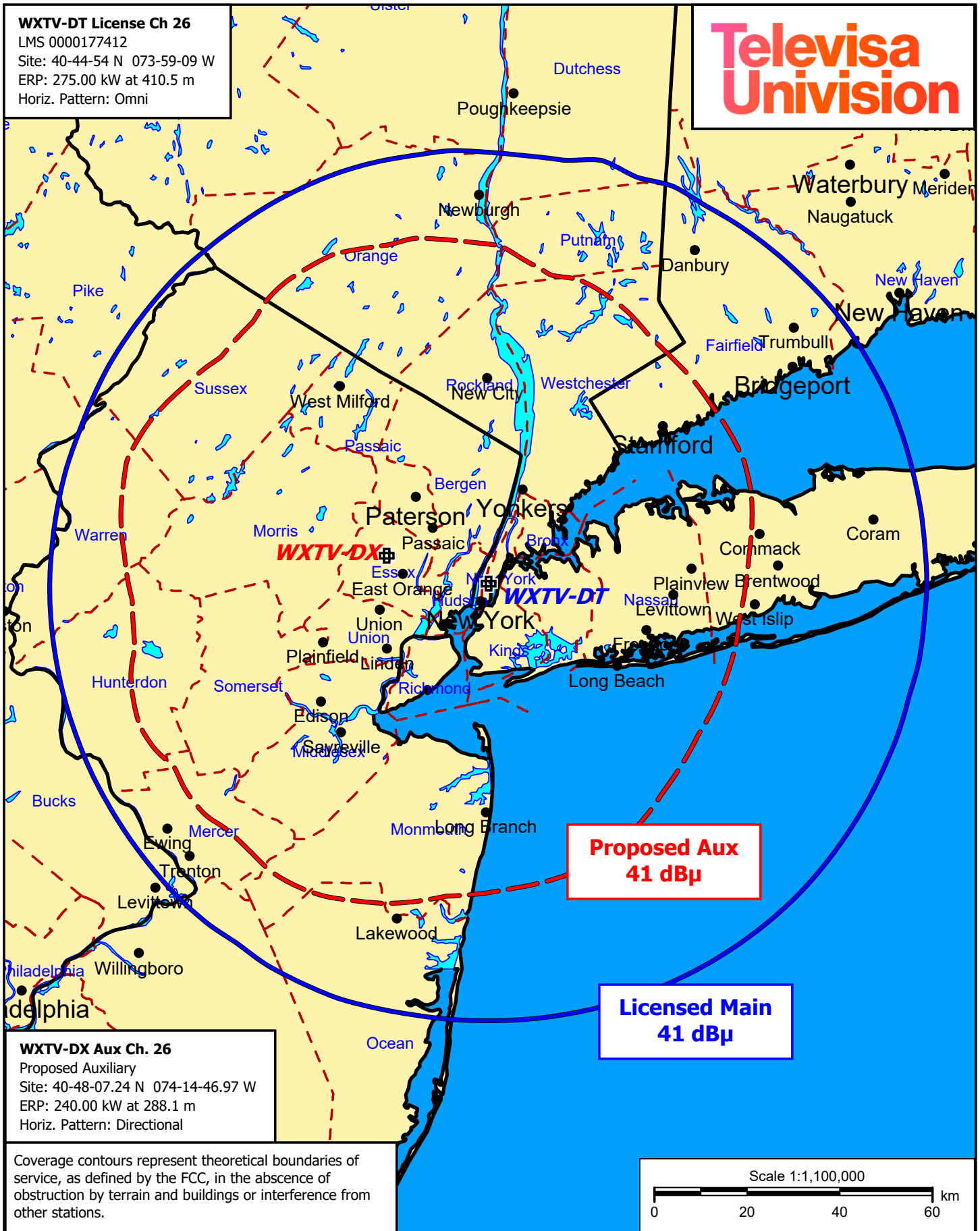
The noise-limited coverage contour for the proposed auxiliary operation of WXTV-DT at American Tower's West Orange site does not extend beyond that of the authorized Empire State Building main facility, as shown by the attached coverage map.

A TV Study analysis shows no impermissible interference will result with this auxiliary application.

WXTV-DT is licensed as a channel sharing partner of WFUT-DT. Therefore, the contours and interference analysis results that follow are identical to those filed in WFUT-DT auxiliary application¹.

¹ See LMS file number [0000217852](#).

WXTV-DT Main-Auxiliary Contour Comparison



Study created: 2023.07.13 09:23:46

Study build station data: LMS TV 2023-06-30

Proposal: WXTV-DT D26 DX APP Paterson, NJ
Facility ID: 74215
Station data: User record
Record ID: 20
Country: U.S.
Zone: I

Proposal "before": WFUT-DT D26 DT BL NEWARK, NJ
File number: DTVBL60555
Facility ID: 60555
Station data: LMS TV 2023-06-30
Record ID: DTVBL60555
Country: U.S.

Individual records excluded:
0000177210 WFUT-DT D26 DT LIC NEWARK, NJ BLANK0000177210
60555 WFUT-DT D26 DT BL NEWARK, NJ DTVBL60555

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000136472	261.4 km
No	WNUV	D25	DD	CP	BALTIMORE, MD	BLANK0000214278	261.4
Yes	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	22.0
No	WMHT	D25	DT	LIC	SCHENECTADY, NY	BLANK0000184994	203.6
No	WJAR	D25	DT	LIC	PROVIDENCE, RI	BLANK0000087546	273.8
Yes	WGGB-TV	D26	DT	LIC	SPRINGFIELD, MA	BLANK0000083684	208.0
Yes	WBFF	D26	DT	LIC	BALTIMORE, MD	BLANK0000136477	261.4
No	WGPT	D26	DT	LIC	OAKLAND, MD	BLANK0000080370	456.2
No	WGCE-CD	D26	DC	LIC	ROCHESTER, NY	BLANK0000116989	378.6
No	WPBS-TV	D26	DT	LIC	WATERTOWN, NY	BLANK0000081158	361.3
Yes	WYLN-LP	D26+	DC	LIC	HAZLETON, PA	BLANK0000078812	144.9
Yes	WLPH-CD	D26	DC	LIC	PHILADELPHIA, PA	BLANK0000201734	119.3
No	WMAR-TV	D27	DT	LIC	BALTIMORE, MD	BLANK0000136334	261.6
No	WPSJ-CD	D27	DC	LIC	HAMMONTON, NJ	BLANK0000194450	119.3
No	WIVT	D27	DT	LIC	BINGHAMTON, NY	BLANK0000090477	198.9
Yes	WNYW	D27	DT	LIC	NEW YORK, NY	BLANK0000079881	22.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D26
Latitude: 40 48 7.60 N (NAD83)
Longitude: 74 14 45.50 W
Height AMSL: 288.1 m
HAAT: 224.0 m
Peak ERP: 240 kW
Antenna: Dielectric TUD-C5SP-10/34U-2-B 0.0 deg
Elev Pattn: Generic
Elec Tilt: 0.50

40.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	62.9 kW	185.4 m	68.4 km
45.0	128	238.7	76.0
90.0	167	269.0	79.8
135.0	196	269.4	80.8
180.0	140	244.5	76.9
225.0	52.6	161.5	65.8
270.0	5.12	209.9	57.7
315.0	4.84	212.2	57.6

Distance to Canadian border: 378.1 km

Distance to Mexican border: 2659.1 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 231.2 degrees Distance: 284.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 278.7 degrees Distance: 2606.5 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%

---- Below is IX received by proposal WXTV-DT ----

Proposal receives 5.84% interference from scenario 1
No IX check failures found.

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WXTV for comparison to WFUT, Model: Longley-Rice
Start: 2023.07.13 09:23:46

Study created: 2023.07.13 09:23:46

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Proposal "before": WFUT-DT D26 DT BL NEWARK, NJ
File number: DTVBL60555
Facility ID: 60555
Station data: LMS TV 2023-06-30
Record ID: DTVBL60555
Country: U.S.

Individual records excluded:

0000177210 WFUT-DT D26 DT LIC NEWARK, NJ BLANK0000177210
60555 WFUT-DT D26 DT BL NEWARK, NJ DTVBL60555

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Yes	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	22.0
No	WMHT	D25	DT	LIC	SCHENECTADY, NY	BLANK0000184994	203.6
No	WJAR	D25	DT	LIC	PROVIDENCE, RI	BLANK0000087546	273.8
Yes	WGGB-TV	D26	DT	LIC	SPRINGFIELD, MA	BLANK0000083684	208.0
Yes	WBFF	D26	DT	LIC	BALTIMORE, MD	BLANK0000136477	261.4
No	WGPT	D26	DT	LIC	OAKLAND, MD	BLANK0000080370	456.2
No	WGCE-CD	D26	DC	LIC	ROCHESTER, NY	BLANK0000116989	378.6
No	WPBS-TV	D26	DT	LIC	WATERTOWN, NY	BLANK0000081158	361.3
Yes	WYLN-LP	D26+	DC	LIC	HAZLETON, PA	BLANK0000078812	144.9
Yes	WLPH-CD	D26	DC	LIC	PHILADELPHIA, PA	BLANK0000201734	119.3
No	WMAR-TV	D27	DT	LIC	BALTIMORE, MD	BLANK0000136334	261.6
No	WPSJ-CD	D27	DC	LIC	HAMMONTON, NJ	BLANK0000194450	119.3
No	WIVT	D27	DT	LIC	BINGHAMTON, NY	BLANK0000090477	198.9
Yes	WNYW	D27	DT	LIC	NEW YORK, NY	BLANK0000079881	22.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D26
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Antenna: Dielectric TUD-C5SP-10/34U-2-B 0.0 deg
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Elec Tilt: 0.50

40.0 dBu contour:

Azimuth	ERP	HAAT	Distance
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180.0	140	244.5	76.9
225.0	52.6	161.5	65.8
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Distance to Canadian border: 378.1 km

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Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 278.7 degrees Distance: 2606.5 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 BLANK0000054140 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	
Undesireds:	WFUT-DT	D26	DT	BL	NEWARK, NJ	DTVBL60555	4.6 km
	WXTV-DT	D26	DX	APP	Paterson, NJ		22.0
	WNYE-TV	D24	DT	LIC	NEW YORK, NY	BLANK0000143561	5.3
	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000136472	271.6
	WMHT	D25	DT	LIC	SCHENECTADY, NY	BLANK0000184994	212.6
	WJAR	D25	DT	LIC	PROVIDENCE, RI	BLANK0000087546	261.2

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	25364.9	19,853,836	23866.1	19,615,370	23112.3	19,376,434	23197.1	19,426,755	-0.37 -0.26

Undesired		Total IX	Unique IX, before	Unique IX, after
WFUT-DT D26 DT BL	205.6	91,880	136.8	68,305
WXTV-DT D26 DX APP	68.2	23,413		52.0 17,984
WNYE-TV D24 DT LIC	112.8	28,962	52.2	13,724 92.7 22,389
WNUV D25 DT LIC	80.0	13,590	55.9	6,718 55.9 6,718
WMHT D25 DT LIC	335.2	73,500	206.0	40,924 206.0 42,029
WJAR D25 DT LIC	210.1	84,421	125.2	64,224 125.2 64,224

Interference to BLANK0000054140 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	
Undesireds:	WFUT-DT	D26	DT	BL	NEWARK, NJ	DTVBL60555	4.6 km
	WXTV-DT	D26	DX	APP	Paterson, NJ		22.0
	WNYE-TV	D24	DT	LIC	NEW YORK, NY	BLANK0000143561	5.3
	WNUV	D25	DD	CP	BALTIMORE, MD	BLANK0000214278	271.6
	WMHT	D25	DT	LIC	SCHENECTADY, NY	BLANK0000184994	212.6
	WJAR	D25	DT	LIC	PROVIDENCE, RI	BLANK0000087546	261.2

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	25364.9	19,853,836	23866.1	19,615,370	23112.3	19,376,434	23197.1	19,426,755	-0.37 -0.26

Undesired		Total IX	Unique IX, before	Unique IX, after
WFUT-DT D26 DT BL	205.6	91,880	136.8	68,305
WXTV-DT D26 DX APP	68.2	23,413		52.0 17,984
WNYE-TV D24 DT LIC	112.8	28,962	52.2	13,724 92.7 22,389
WNUV D25 DD CP	80.0	13,590	55.9	6,718 55.9 6,718
WMHT D25 DT LIC	335.2	73,500	206.0	40,924 206.0 42,029
WJAR D25 DT LIC	210.1	84,421	125.2	64,224 125.2 64,224

Interference to BLANK0000083684 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGGB-TV	D26	DT	LIC	SPRINGFIELD, MA	BLANK0000083684	
Undesireds:	WFUT-DT	D26	DT	BL	NEWARK, NJ	DTVBL60555	199.8 km
	WXTV-DT	D26	DX	APP	Paterson, NJ		208.0
	WMHT	D25	DT	LIC	SCHENECTADY, NY	BLANK0000184994	119.6
	WJAR	D25	DT	LIC	PROVIDENCE, RI	BLANK0000087546	119.9
	WPBS-TV	D26	DT	LIC	WATERTOWN, NY	BLANK0000081158	308.2
	WUNI	D27	DT	LIC	MARLBOROUGH, MA	BLANK0000204508	96.3

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	22102.2	3,443,386	19531.2	3,053,436	18303.4	2,815,099	18380.2	2,808,880	-0.42 0.22

Undesired		Total IX	Unique IX, before	Unique IX, after
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WFUT-DT D26 DT BL	611.4	67,531	567.4	56,682		
WXTV-DT D26 DX APP	542.6	71,509			490.6	62,901
WMHT D25 DT LIC	76.0	1,258	64.0	930	52.0	740
WJAR D25 DT LIC	284.2	108,820	104.2	45,289	100.2	41,909
WPBS-TV D26 DT LIC	8.0	59	0.0	0	0.0	0
WUNI D27 DT LIC	472.3	133,468	284.2	68,094	284.2	69,533

Interference to BLANK0000136477 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WBFF	D26	DT	LIC	BALTIMORE, MD	BLANK0000136477	
Undesireds:	WFUT-DT	D26	DT	BL	NEWARK, NJ	DTVBL60555	275.7 km
	WXTV-DT	D26	DX	APP	Paterson, NJ		261.4
	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000136472	0.0
	WGPT	D26	DT	LIC	OAKLAND, MD	BLANK0000080370	227.2
	WYLN-LP	D26+	DC	LIC	HAZLETON, PA	BLANK0000078812	190.8
	WLPH-CD	D26	DC	LIC	PHILADELPHIA, PA	BLANK0000201734	143.9
	WHTJ	D26	DT	LIC	CHARLOTTESVILLE, VA	BLANK0000112378	219.0
	WMAR-TV	D27	DT	LIC	BALTIMORE, MD	BLANK0000136334	0.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
26237.3 8,523,983		25456.2 8,381,042		24510.5 8,118,880		24518.6 8,122,036	-0.03 -0.04

Undesired		Total IX	Unique IX, before	Unique IX, after
WFUT-DT D26 DT BL	56.5	12,555	8.1	3,156
WXTV-DT D26 DX APP	16.2	1,081		0.0 0
WGPT D26 DT LIC	52.2	7,353	24.0	1,306 24.0 1,306
WYLN-LP D26+ DC LIC	44.4	4,869	4.0	435 8.1 837
WLPH-CD D26 DC LIC	332.3	79,675	247.6	42,613 247.6 42,613
WHTJ D26 DT LIC	529.4	181,274	420.6	137,038 424.6 139,810
WMAR-TV D27 DT LIC	128.4	32,361	112.4	30,374 112.4 30,374

Interference to BLANK0000078812 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WYLN-LP	D26+	DC	LIC	HAZLETON, PA	BLANK0000078812	
Undesireds:	WFUT-DT	D26	DT	BL	NEWARK, NJ	DTVBL60555	167.5 km
	WXTV-DT	D26	DX	APP	Paterson, NJ		144.9
	WBFF	D26	DT	LIC	BALTIMORE, MD	BLANK0000136477	190.8
	WLPH-CD	D26	DC	LIC	PHILADELPHIA, PA	BLANK0000201734	120.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
3600.9 412,777		2418.3 165,139		2382.1 162,645		2398.1 163,396	-0.67 -0.46

Undesired		Total IX	Unique IX, before	Unique IX, after
WFUT-DT D26 DT BL	16.0	751	16.0	751
WXTV-DT D26 DX APP	0.0	0		0.0 0
WBFF D26 DT LIC	16.2	1,743	12.2	1,715 12.2 1,715
WLPH-CD D26 DC LIC	8.1	28	4.0	0 4.0 0

Interference to BLANK0000201734 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLPH-CD	D26	DC	LIC	PHILADELPHIA, PA	BLANK0000201734	
Undesireds:	WFUT-DT	D26	DT	BL	NEWARK, NJ	DTVBL60555	132.1 km
	WXTV-DT	D26	DX	APP	Paterson, NJ		119.3
	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000136472	143.9
	WBFF	D26	DT	LIC	BALTIMORE, MD	BLANK0000136477	143.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
7170.0 5,247,692		7081.7 5,216,919		6880.7 5,065,116		6949.1 5,108,942	-0.99 -0.87

Undesired		Total IX	Unique IX, before	Unique IX, after
WFUT-DT D26 DT BL	120.6	66,295	92.5	54,041
WXTV-DT D26 DX APP	52.1	36,797		24.2 10,215
WBFF D26 DT LIC	108.4	97,762	80.3	85,508 80.5 71,180

Interference to BLANK0000079881 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNYW	D27	DT	LIC	NEW YORK, NY	BLANK0000079881	

Undesireds:	WFUT-DT	D26	DT	BL	NEWARK, NJ	DTVBL60555	4.6 km
	WXTV-DT	D26	DX	APP	Paterson, NJ		22.0
	WUNI	D27	DT	LIC	MARLBOROUGH, MA	BLANK0000204508	280.1
	WMAR-TV	D27	DT	LIC	BALTIMORE, MD	BLANK0000136334	271.8
	WPSJ-CD	D27	DC	LIC	HAMMONTON, NJ	BLANK0000194450	127.9
	WIVT	D27	DT	LIC	BINGHAMTON, NY	BLANK0000090477	219.9
	WHPX-TV	D28	DT	LIC	NEW LONDON, CT	BLANK0000080171	147.9
	WEPT-CD	D28	DC	LIC	Peekskill, NY	BLANK0000205865	76.3
	WCAU	D28	DT	LIC	PHILADELPHIA, PA	BLANK0000079825	127.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
26455.5 20,075,874	24799.9 19,753,060	23549.5 19,433,704	23642.7 19,482,797	-0.40 -0.25

Undesired		Total IX	Unique IX, before	Unique IX, after
WFUT-DT D26 DT BL	145.4	66,475	137.3	60,840
WXTV-DT D26 DX APP	44.2	11,747		44.2 11,747
WUNI D27 DT LIC	12.1	3,630	8.0	3,414
WMAR-TV D27 DT LIC	352.8	41,862	204.4	21,172
WPSJ-CD D27 DC LIC	643.7	193,777	165.1	108,501
WIVT D27 DT LIC	120.5	30,930	72.5	17,742
WHPX-TV D28 DT LIC	11.9	4,288	8.0	2,362
WEPT-CD D28 DC LIC	8.1	2,483	8.1	2,483
WCAU D28 DT LIC	591.0	93,463	108.3	8,853

Interference to proposal scenario 1
5.84% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WXTV-DT	D26	DX	APP	Paterson, NJ		
Undesireds:	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	22.0 km
	WGGB-TV	D26	DT	LIC	SPRINGFIELD, MA	BLANK0000083684	208.0
	WBFF	D26	DT	LIC	BALTIMORE, MD	BLANK0000136477	261.4
	WLPH-CD	D26	DC	LIC	PHILADELPHIA, PA	BLANK0000201734	119.3
	WNYW	D27	DT	LIC	NEW YORK, NY	BLANK0000079881	22.0

Service area	Terrain-limited	IX-free	Percent IX
15856.5 17,589,554	14717.1 17,412,144	12903.5 16,395,772	12.32 5.84

Undesired		Total IX	Unique IX	Prcnt Unique IX
WWOR-TV D25 DT LIC	698.0	386,356	31.9	31,269
WGGB-TV D26 DT LIC	148.7	54,152	108.5	46,372
WBFF D26 DT LIC	24.0	2,937	8.0	230
WLPH-CD D26 DC LIC	276.9	68,843	152.6	41,717
WNYW D27 DT LIC	1480.5	893,960	798.3	529,664