

Contour Comparison and Interference Analysis

Univision New York LLC

WFUT-DT Newark, NJ facility ID 60555

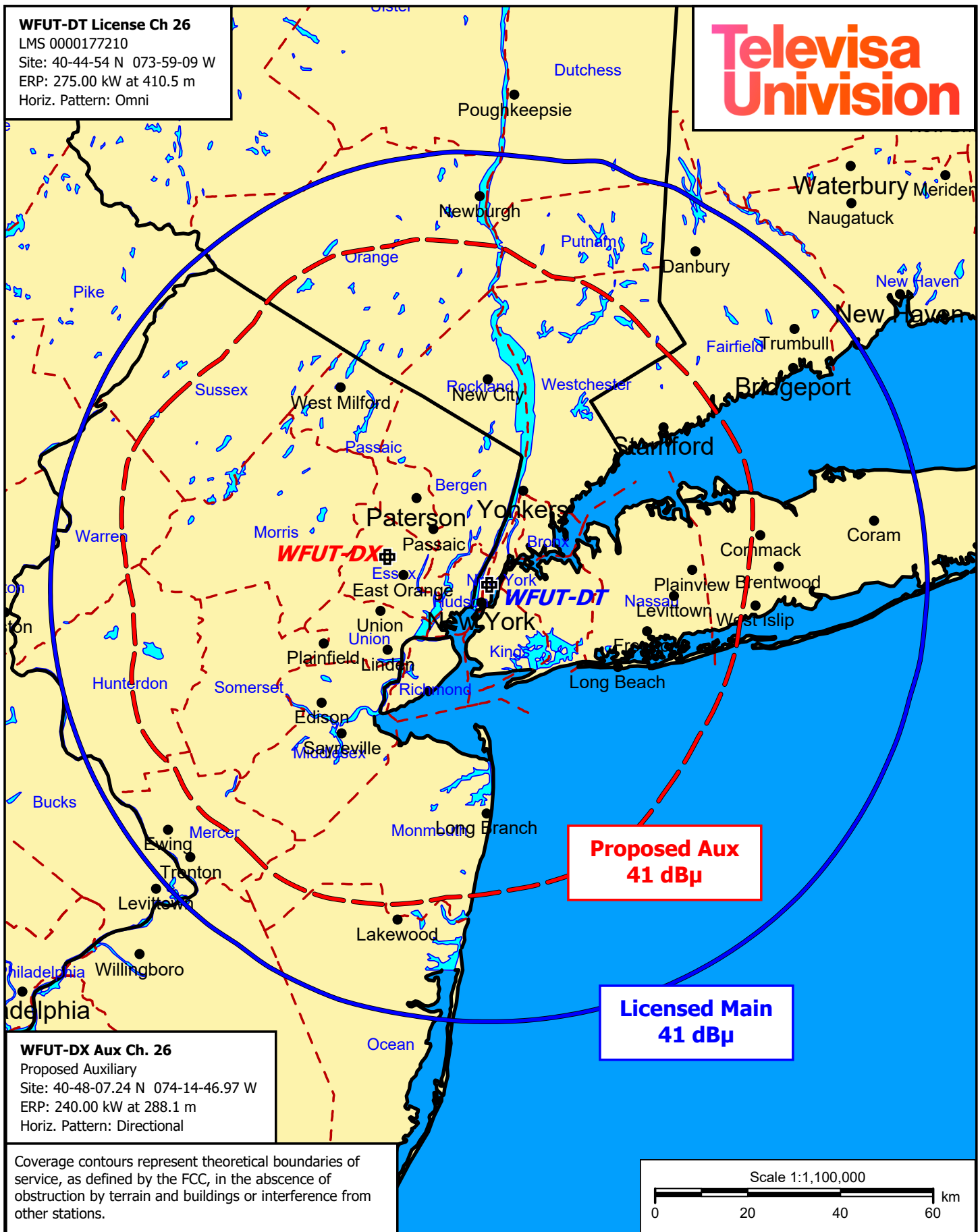
Auxiliary Antenna Application

Channel 26 240 kW-DA 224 m

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

The proposed auxiliary facility would not cause impermissible increase in interference to any station, as shown by the TV Study interference data that follows.

WFUT-DT Main-Auxiliary Contour Comparison



Study created: 2023.06.30 11:07:21

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

Proposal: WFUT-DT D26 DX APP Newark, NJ
Facility ID: 60555
Station data: User record
Record ID: 6
Country: U.S.
Zone: I

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	WLPB-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 WFUT-DT -----

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

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
	WFUT-DT	D26	DX	APP	Newark, 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			
WFUT-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
	WFUT-DT	D26	DX	APP	Newark, 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	
WFUT-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

Desired:	Call WGGB-TV	Chan D26	Svc DT	Status LIC	City, State SPRINGFIELD, MA	File Number BLANK0000083684	Distance			
Undesireds:	WFUT-DT	D26	DT	BL	NEWARK, NJ	DTVBL60555	199.8 km			
	WFUT-DT	D26	DX	APP	Newark, 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

Interference to BLANK0000136477 LIC scenario 1

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

Interference to BLANK0000078812 LIC scenario 1

Desired:	Call WYLN-LP	Chan D26+	Svc DC	Status LIC	City, State HAZLETON, PA	File Number BLANK0000078812	Distance		
Undesireds:	WFUT-DT	D26	DT	BL	NEWARK, NJ	DTVBL60555	167.5 km		
	WFUT-DT	D26	DX	APP	Newark, 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		
WFUT-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 WLPH-CD	Chan D26	Svc DC	Status LIC	City, State PHILADELPHIA, PA	File Number BLANK0000201734	Distance		
Undesireds:	WFUT-DT	D26	DT	BL	NEWARK, NJ	DTVBL60555	132.1 km		
	WFUT-DT	D26	DX	APP	Newark, 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		
WFUT-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 WNYW	Chan D27	Svc DT	Status LIC	City, State NEW YORK, NY	File Number BLANK0000079881	Distance		
Undesireds:	WFUT-DT	D26	DT	BL	NEWARK, NJ	DTVBL60555	4.6 km		
	WFUT-DT	D26	DX	APP	Newark, 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		
WFUT-DT	D26	DX	APP	44.2	11,747			44.2	11,747
WUNI	D27	DT	LIC	12.1	3,630	8.0	3,414	8.0	3,414

WMAR-TV D27 DT LIC	352.8	41,862	204.4	21,172	204.4	21,172
WPSJ-CD D27 DC LIC	643.7	193,777	165.1	108,501	165.1	108,501
WIVT D27 DT LIC	120.5	30,930	72.5	17,742	72.5	17,742
WHPX-TV D28 DT LIC	11.9	4,288	8.0	2,362	8.0	2,362
WEPT-CD D28 DC LIC	8.1	2,483	8.1	2,483	8.1	2,483
WCAU D28 DT LIC	591.0	93,463	108.3	8,853	108.3	8,853

Interference to proposal scenario 1
5.84% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFUT-DT	D26	DX	APP	Newark, 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	0.22	0.18	
WGGB-TV D26 DT LIC	148.7	54,152	108.5	46,372	0.74	0.27	
WBFF D26 DT LIC	24.0	2,937	8.0	230	0.05	0.00	
WLPH-CD D26 DC LIC	276.9	68,843	152.6	41,717	1.04	0.24	
WNYW D27 DT LIC	1480.5	893,960	798.3	529,664	5.42	3.04	