

TVSTUDY ANALYSIS FOR PROPOSED WEDW/WZME (DTS), STAMFORD/BRIDGEPORT, CONNECTICUT (CHANNEL 21)

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: wedw180, Model: Longley-Rice

Study build station data: LMS TV 2021-12-06

Proposal: WEDW180 D21 DD APP STAMFORD, CT
File number: wedw180
Facility ID: 13594
Station data: User record
Record ID: 4314
Country: U.S.
Zone: I
Ref. lat.: 41 03 10.20 N
Ref. long.: 73 33 47.00 W
DTS sites: 2

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WBZ-TV	D20	DT	LIC	BOSTON, MA	BLANK0000117666	238.4 km
No	WBZ-TV	D20	DT	CP	BOSTON, MA	BLANK0000127484	238.4
Yes	WSBK-TV	D21	DT	LIC	BOSTON, MA	BLANK0000117438	238.4
Yes	WFXQ-CD	D21	DC	LIC	SPRINGFIELD, MA	BLANK0000125116	153.5
No	WMPT	D21	DT	LIC	ANNAPOLIS, MD	BLANK0000136496	344.5
Yes	WNYT	D21	DT	APP	ALBANY, NY	BLANK0000156619	178.7
No	WROC-TV	D21	DT	LIC	ROCHESTER, NY	BLANK0000079899	404.4
Yes	WNEP-TV	D21	DT	LIC	SCRANTON, PA	BLANK0000117109	193.8
No	WUTH-CD	D22	DC	LIC	HARTFORD, CT	BLANK0000080135	116.3
No	WBPX-TV	D22	DT	LIC	BOSTON, MA	BLANK0000075858	226.7
No	WVMA-CD	D22	DC	LIC	WINCHENDON, MA	BLANK0000157576	161.6
Yes	WDVB-CD	D22	DC	LIC	EDISON, NJ	BLANK0000080314	49.1
No	WPHY-CD	D22	DC	LIC	TRENTON, NJ	BLANK0000079874	180.5
No	WCWN	D22	DT	LIC	SCHENECTADY, NY	BLANK0000083798	178.7
No	WOLF-TV	D22	DT	LIC	HAZLETON, PA	BLANK0000086376	193.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied, DTS site # 1:

Channel: D21
Latitude: 41 16 44.30 N (NAD83)
Longitude: 73 11 6.40 W
Height AMSL: 303.5 m
HAAT: 219.0 m
Peak ERP: 200 kW
Antenna: ATC-BCE618C3RS-V1-21 48.0 deg
Elev Pattn: Generic
Elec Tilt: 1.50

39.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	199 kW	178.5 m	74.4 km
45.0	165	204.8	75.3
90.0	195	246.7	79.4
135.0	134	280.5	80.3
180.0	0.111	289.0	42.7
225.0	0.014	222.4	28.8
270.0	0.075	178.7	34.9
315.0	113	152.6	69.4

Record parameters as studied, DTS site # 2:

Channel: D21
Latitude: 40 44 54.00 N (NAD83)
Longitude: 73 59 9.00 W
Height AMSL: 452.0 m
HAAT: 439.0 m
Peak ERP: 175 kW
Antenna: DIE-TFU-12EST/VP-R 3S180 0.0 deg
Elev Pattn: DIE-TFU-12EST/VP-R 3S180

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Elec Tilt: 2.80

39.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	159 kW	416.4 m	94.2 km
45.0	171	442.1	96.4
90.0	166	440.0	96.0
135.0	95.4	442.1	91.8
180.0	52.0	435.7	87.2
225.0	28.6	451.4	84.0
270.0	51.6	442.6	87.5
315.0	81.2	441.2	90.6

**DTS proposal has coverage outside reference facility and distance limit

Distance to Canadian border: 395.0 km

Distance to Mexican border: 2674.8 km

Conditions at FCC monitoring station: Laurel MD

DTS site # 1 Bearing: 233.9 degrees Distance: 387.8 km

DTS site # 2 Bearing: 234.8 degrees Distance: 298.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

DTS site # 1 Bearing: 278.0 degrees Distance: 2686.8 km

DTS site # 2 Bearing: 278.9 degrees Distance: 2629.1 km

Proposal is short-spaced to land mobile station: Philadelphia PA ch. 20, 133.1 km
 Proposal is short-spaced to land mobile station: ESSEX NJ WIL429 ch. 20, 21.2 km
 Proposal is short-spaced to land mobile station: ESSEX NJ WIL429 ch. 20, 21.9 km
 Proposal is short-spaced to land mobile station: MIDDLESEX NJ WQIR767 ch. 20, 48.2 km
 Proposal is short-spaced to land mobile station: MIDDLESEX NJ WQJS363 ch. 20, 37.5 km
 Proposal is short-spaced to land mobile station: MIDDLESEX NJ WQJS363 ch. 20, 34.2 km
 Proposal is short-spaced to land mobile station: MIDDLESEX NJ WQJS363 ch. 20, 35.4 km
 Proposal is short-spaced to land mobile station: MIDDLESEX NJ WQJS363 ch. 20, 30.3 km
 Proposal is short-spaced to land mobile station: MIDDLESEX NJ WQJS363 ch. 20, 31.3 km
 Proposal is short-spaced to land mobile station: MIDDLESEX NJ WQJS363 ch. 20, 32.1 km
 Proposal is short-spaced to land mobile station: MIDDLESEX NJ WQJS365 ch. 20, 36.1 km
 Proposal is short-spaced to land mobile station: MIDDLESEX NJ WQJS365 ch. 20, 28.1 km
 Proposal is short-spaced to land mobile station: MONMOUTH NJ WIJ783 ch. 20, 65.1 km
 Proposal is short-spaced to land mobile station: MONMOUTH NJ WIJ783 ch. 20, 42.3 km
 Proposal is short-spaced to land mobile station: MONMOUTH NJ WPMW554 ch. 20, 58.4 km
 Proposal is short-spaced to land mobile station: MONMOUTH NJ WQGU308 ch. 20, 71.3 km
 Proposal is short-spaced to land mobile station: OCEAN NJ WIL552 ch. 20, 90.2 km
 Proposal is short-spaced to land mobile station: OCEAN NJ WIL552 ch. 20, 87.9 km
 Proposal is short-spaced to land mobile station: OCEAN NJ WIL552 ch. 20, 85.1 km
 Proposal is short-spaced to land mobile station: OCEAN NJ WIL552 ch. 20, 73.3 km
 No land mobile station failures found

Study cell size: 1.00 km (Higher resolution cell size is requested.)

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 BLANK0000117438 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSBK-TV	D21	DT	LIC	BOSTON, MA	BLANK0000117438	
Undesireds:	WEDW	D21	DT	BL	STAMFORD, CT	DTVBL13594	198.0 km
	WEDW180	D21	DD	APP	STAMFORD, CT	wedw180	238.4
	WBZ-TV	D20	DT	LIC	BOSTON, MA	BLANK0000117666	0.0
	WFXQ-CD	D21	DC	LIC	SPRINGFIELD, MA	BLANK0000125116	116.0
	WNYT	D21	DT	APP	ALBANY, NY	BLANK0000156619	230.1
	WBPX-TV	D22	DT	LIC	BOSTON, MA	BLANK0000075858	22.6
	WVMA-CD	D22	DC	LIC	WINCHENDON, MA	BLANK0000157576	89.9

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Service area		Terrain-limited		IX-free, before		IX-free, after		Percent	New IX
27005.5	7,294,983	26227.6	7,233,094	25710.1	7,185,593	25654.9	7,181,251	0.21	0.06
Undesired		Total IX		Unique IX, before		Unique IX, after			
WEDW D21 DT BL		107.2	6,675	34.0	1,391				
WEDW180 D21 DD APP		214.8	12,817			89.3	5,733		
WFXQ-CD D21 DC LIC		301.6	15,492	208.2	10,736	184.1	10,027		
WNYT D21 DT APP		194.7	12,971	68.3	4,643	65.3	4,615		
WBPX-TV D22 DT LIC		51.3	21,367	51.3	21,367	51.3	21,367		
WVMA-CD D22 DC LIC		30.1	1,263	21.1	715	19.1	715		

Interference to BLANK0000125116 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFXQ-CD	D21	DC	LIC	SPRINGFIELD, MA	BLANK0000125116	
Undesireds:	WEDW	D21	DT	BL	STAMFORD, CT	DTVBL13594	117.0 km
	WEDW180	D21	DD	APP	STAMFORD, CT	wedw180	153.5
	WBZ-TV	D20	DT	LIC	BOSTON, MA	BLANK0000117666	116.0
	WSBK-TV	D21	DT	LIC	BOSTON, MA	BLANK0000117438	116.0
	WNYT	D21	DT	APP	ALBANY, NY	BLANK0000156619	119.5
	WNEP-TV	D21	DT	LIC	SCRANTON, PA	BLANK0000117109	292.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent	New IX
6187.5	793,132	5604.6	764,688	5319.8	754,201	5253.2	752,082	1.25	0.28
Undesired		Total IX		Unique IX, before		Unique IX, after			
WEDW D21 DT BL		44.3	1,974	20.2	1,356				
WEDW180 D21 DD APP		151.2	5,148			86.8	3,475		
WSBK-TV D21 DT LIC		164.5	4,539	111.4	3,233	88.2	2,929		
WNYT D21 DT APP		146.2	5,697	89.0	4,216	80.0	3,731		
WNEP-TV D21 DT LIC		3.0	0	0.0	0	0.0	0		

Interference to BLANK0000156619 APP scenario 1

****MX: 0.87% interference caused - See last page of study for correct interference analysis results.**

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNYT	D21	DT	APP	ALBANY, NY	BLANK0000156619	
Undesireds:	WEDW	D21	DT	BL	STAMFORD, CT	DTVBL13594	164.5 km
	WEDW180	D21	DD	APP	STAMFORD, CT	wedw180	178.7
	WSBK-TV	D21	DT	LIC	BOSTON, MA	BLANK0000117438	230.1
	WFXQ-CD	D21	DC	LIC	SPRINGFIELD, MA	BLANK0000125116	119.5
	WROC-TV	D21	DT	LIC	ROCHESTER, NY	BLANK0000079899	296.5
	WNEP-TV	D21	DT	LIC	SCRANTON, PA	BLANK0000117109	222.3
	WUTH-CD	D22	DC	LIC	HARTFORD, CT	BLANK0000080135	162.4
	WCWN	D22	DT	LIC	SCHENECTADY, NY	BLANK0000083798	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent	New IX
37714.9	1,966,083	33139.4	1,701,446	32333.4	1,683,098	32058.1	1,668,441	0.85	0.87
Undesired		Total IX		Unique IX, before		Unique IX, after			
WEDW D21 DT BL		193.9	6,657	82.9	1,912				
WEDW180 D21 DD APP		660.1	24,695			358.2	16,569		
WSBK-TV D21 DT LIC		219.7	6,021	34.2	306	22.1	136		
WFXQ-CD D21 DC LIC		330.3	6,968	132.7	1,696	83.4	968		
WROC-TV D21 DT LIC		115.7	1,564	55.3	838	48.3	783		
WNEP-TV D21 DT LIC		344.5	10,787	191.9	5,887	145.8	4,523		
WUTH-CD D22 DC LIC		14.0	1,192	0.0	0	0.0	0		
WCWN D22 DT LIC		2.0	2	2.0	2	2.0	2		

Interference to BLANK0000117109 LIC scenario 1

See last page of study for correct interference analysis results.

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNEP-TV	D21	DT	LIC	SCRANTON, PA	BLANK0000117109	
Undesireds:	WEDW	D21	DT	BL	STAMFORD, CT	DTVBL13594	224.8 km

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WEDW180	D21	DD	APP	STAMFORD, CT	wedw180	193.8
WBGH-CD	D20z	DC	LIC	BINGHAMTON, NY	BLANK0000004524	97.9
WMPT	D21	DT	LIC	ANNAPOLIS, MD	BLANK0000136496	249.4
WNYT	D21	DT	APP	ALBANY, NY	BLANK0000156619	222.3
WROC-TV	D21	DT	LIC	ROCHESTER, NY	BLANK0000079899	259.0
WSEE-TV	D21	DT	LIC	ERIE, PA	BLANK0000074552	361.0
WPNT	D21	DT	LIC	PITTSBURGH, PA	BLANK0000112577	355.8
WOLF-TV	D22	DT	LIC	HAZLETON, PA	BLANK0000086376	0.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
40156.3 3,434,444	35265.0 2,875,475	34111.1 2,720,687	33987.4 2,708,384	0.36 0.45

Undesired	Total IX	Unique IX, before	Unique IX, after
WEDW D21 DT BL	129.7 14,001	36.0 4,578	
WEDW180 D21 DD APP	384.3 37,518		159.7 16,881
WBGH-CD D20z DC LIC	9.0 1,088	8.0 825	7.0 780
WMPT D21 DT LIC	660.5 127,409	529.7 110,587	445.9 101,401
WNYT D21 DT APP	400.7 29,788	251.0 14,955	221.9 13,994
WROC-TV D21 DT LIC	175.5 5,269	112.7 3,097	107.7 2,845
WSEE-TV D21 DT LIC	6.0 71	1.0 0	0.0 0
WPNT D21 DT LIC	9.0 99	7.0 48	6.0 20
WOLF-TV D22 DT LIC	2.0 0	2.0 0	2.0 0

Interference to BLANK0000080314 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDVB-CD	D22	DC	LIC	EDISON, NJ	BLANK0000080314	
Undesireds:	WEDW	D21	DT	BL	STAMFORD, CT	DTVBL13594	89.4 km
	WEDW180	D21	DD	APP	STAMFORD, CT	wedw180	49.1
	WPHY-CD	D22	DC	LIC	TRENTON, NJ	BLANK0000079874	131.8
	WCWN	D22	DT	LIC	SCHENECTADY, NY	BLANK0000083798	208.6
	WOLF-TV	D22	DT	LIC	HAZLETON, PA	BLANK0000086376	165.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
9755.5 15,863,914	9489.2 15,770,455	9406.2 15,730,619	9312.9 15,659,199	0.99 0.45

Undesired	Total IX	Unique IX, before	Unique IX, after
WEDW D21 DT BL	0.0 0	0.0 0	
WEDW180 D21 DD APP	96.2 71,945		93.2 71,420
WPHY-CD D22 DC LIC	44.0 22,052	40.0 20,740	39.0 20,460
WCWN D22 DT LIC	22.2 7,791	19.2 5,694	17.2 5,449
WOLF-TV D22 DT LIC	23.9 13,402	16.9 9,993	16.9 9,993

Interference to proposal scenario 1

**MX: 2.67% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WEDW180	D21	DD	APP	STAMFORD, CT	wedw180	
Undesireds:	WSBK-TV	D21	DT	LIC	BOSTON, MA	BLANK0000117438	238.4 km
	WFXQ-CD	D21	DC	LIC	SPRINGFIELD, MA	BLANK0000125116	153.5
	WMPT	D21	DT	LIC	ANNAPOLIS, MD	BLANK0000136496	344.5
	WNYT	D21	DT	APP	ALBANY, NY	BLANK0000156619	178.7
	WNEP-TV	D21	DT	LIC	SCRANTON, PA	BLANK0000117109	193.8
	WUTH-CD	D22	DC	LIC	HARTFORD, CT	BLANK0000080135	116.3
	WCWN	D22	DT	LIC	SCHENECTADY, NY	BLANK0000083798	178.7

Service area	Terrain-limited	IX-free	Percent IX
33429.6 21,457,902	31305.3 20,956,768	29675.4 20,397,560	5.21 2.67

Undesired	Total IX	Unique IX	Prcnt Unique IX
WSBK-TV D21 DT LIC	174.4 136,435	39.1 18,607	0.13 0.09
WFXQ-CD D21 DC LIC	300.6 284,997	119.3 77,985	0.38 0.37
WMPT D21 DT LIC	98.2 25,897	46.2 3,831	0.15 0.02
WNYT D21 DT APP	1086.9 266,976	819.1 119,033	2.62 0.57*
WNEP-TV D21 DT LIC	440.9 163,112	222.4 74,104	0.71 0.35
WUTH-CD D22 DC LIC	116.2 149,963	7.0 4,835	0.02 0.02
WCWN D22 DT LIC	2.0 0	0.0 0	0.00 0.00

* The applicant
consents to accept the
predicted interference
from the WNYT D21
application.

TVSTUDY ANALYSIS FOR PROPOSED WEDW/WZME (DTS), STAMFORD/BRIDGEPORT, CONNECTICUT (CHANNEL 21)

Study with correct WEDW facility baseline for WNEP study:

Proposal "before": WEDW D21 DD CP *A STAMFORD, CT

File number: BLANK0000036047
Facility ID: 13594
Station data: LMS TV 2021-12-08
Record ID: 25076ff3600de522016028d54eb926b4
Country: U.S.

Interference to BLANK0000117109 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNEP-TV	D21	DT	LIC	SCRANTON, PA	BLANK0000117109	
Undesireds:	WEDW	D21	DD	CP	STAMFORD, CT	BLANK0000036047	193.8 km
	WEDW180	D21	DD	APP	STAMFORD, CT	wedw180	193.8
	WBGH-CD	D20z	DC	LIC	BINGHAMTON, NY	BLANK0000004524	97.9
	WMPT	D21	DT	LIC	ANNAPOLIS, MD	BLANK0000136496	249.4
	WNYT	D21	DT	APP	ALBANY, NY	BLANK0000156619	222.3
	WROC-TV	D21	DT	LIC	ROCHESTER, NY	BLANK0000079899	259.0
	WSEE-TV	D21	DT	LIC	ERIE, PA	BLANK0000074552	361.0
	WPNT	D21	DT	LIC	PITTSBURGH, PA	BLANK0000112577	355.8
	WOLF-TV	D22	DT	LIC	HAZLETON, PA	BLANK0000086376	0.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
40156.3 3,434,444		35265.0 2,875,475		33843.0 2,698,894		33987.4 2,708,384	-0.43 -0.35
Undesired		Total IX		Unique IX, before		Unique IX, after	
WEDW D21 DD CP		610.7 51,859		304.1 26,371			
WEDW180 D21 DD APP		384.3 37,518				159.7 16,881	
WBGH-CD D20z DC LIC		9.0 1,088		7.0 780		7.0 780	
WMPT D21 DT LIC		660.5 127,409		438.0 100,495		445.9 101,401	
WNYT D21 DT APP		400.7 29,788		179.8 11,511		221.9 13,994	
WROC-TV D21 DT LIC		175.5 5,269		100.7 2,736		107.7 2,845	
WSEE-TV D21 DT LIC		6.0 71		0.0 0		0.0 0	
WPNT D21 DT LIC		9.0 99		6.0 20		6.0 20	
WOLF-TV D22 DT LIC		2.0 0		1.0 0		2.0 0	

Study with correct WEDW facility baseline for WNYT study:

Proposal "before": WEDW D21 DD CP STAMFORD, CT

File number: BLANK0000122655
Facility ID: 13594
Station data: LMS TV 2021-12-06
Record ID: 25076f91741432fb01744aeb523d30c9
Country: U.S.

Interference to BLANK0000156619 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNYT	D21	DT	APP	ALBANY, NY	BLANK0000156619	
Undesireds:	WEDW	D21	DD	CP	STAMFORD, CT	BLANK0000122655	178.7 km
	WEDW180	D21	DD	APP	STAMFORD, CT	wedw180	178.7
	WSBK-TV	D21	DT	LIC	BOSTON, MA	BLANK0000117438	230.1
	WFQX-CD	D21	DC	LIC	SPRINGFIELD, MA	BLANK0000125116	119.5
	WROC-TV	D21	DT	LIC	ROCHESTER, NY	BLANK0000079899	296.5
	WNEP-TV	D21	DT	LIC	SCRANTON, PA	BLANK0000117109	222.3
	WUTH-CD	D22	DC	LIC	HARTFORD, CT	BLANK0000080135	162.4
	WCWN	D22	DT	LIC	SCHENECTADY, NY	BLANK0000083798	0.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37714.9 1,966,083		33139.4 1,701,446		32118.0 1,670,385		32058.1 1,668,441	0.19 0.12
Undesired		Total IX		Unique IX, before		Unique IX, after	
WEDW D21 DD CP		592.1 22,729		298.3 14,625			
WEDW180 D21 DD APP		660.1 24,695				358.2 16,569	

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(CHANNEL 21)

WSBK-TV D21 DT LIC	219.7	6,021	26.2	161	22.1	136
WFXQ-CD D21 DC LIC	330.3	6,968	96.5	1,208	83.4	968
WROC-TV D21 DT LIC	115.7	1,564	47.3	731	48.3	783
WNEP-TV D21 DT LIC	344.5	10,787	139.8	4,289	145.8	4,523
WUTH-CD D22 DC LIC	14.0	1,192	0.0	0	0.0	0
WCWN D22 DT LIC	2.0	2	2.0	2	2.0	2
