

FIGURE 3B - FULL TVSTUDY RESULTS WITH CANADA CKCO-DT
AS AMENDED FOR ANTENNA ROATATION AT 289 DEGREES

NOTE Study cell size: 1.00 km
Profile point spacing: 0.10 km REQUESTED

Study created: 2024.01.19 10:04:43
Study build station data: LMS TV 2024-01-19

Proposal: W13DS-D D13- LD APP CLEVELAND, OH
File number: W13DS ROT 289
Facility ID: 68016
Station data: User record
Record ID: 740
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Search options:
Non-U.S. records included

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WMFD-TV	D12	DT	LIC	MANSFIELD, OH	BLANK0000222027	153.9 km
No	WICU-TV	D12	DT	LIC	ERIE, PA	BLANK0000074553	102.0
No	WBPA-LD	D12+	LD	LIC	PITTSBURGH, PA	BLANK0000125159	152.7
No	WBOY-TV	D12	DT	LIC	CLARKSBURG, WV	BLANK0000003150	257.4
No	WTHR	D13	DT	LIC	INDIANAPOLIS, IN	BLANK0000153712	464.6
No	WTHR	D13	DT	APP	INDIANAPOLIS, IN	BPCDT20130702ABM	464.6
No	WTSF	D13	DT	LIC	ASHLAND, KY	BLANK0000117277	363.2
No	WZZM	D13	DT	LIC	GRAND RAPIDS, MI	BLCDT20100726AKV	442.8
No	WNYI	D13	DT	LIC	ITHACA, NY	BLANK0000181680	408.2
No	WDSS-LD	D13	LD	LIC	SYRACUSE, NY	BLANK0000157036	408.2
Yes	WIVX-LD	D13	LD	LIC	CLEVELAND, OH	BLANK0000219037	60.8
Yes	WTVG	D13	DT	LIC	TOLEDO, OH	BLANK0000143483	194.3
Yes	W13DP-D	D13	LD	LIC	YOUNGSTOWN, OH	BLANK0000090576	62.1
No	WVFX	D13	DT	LIC	CLARKSBURG, WV	BLANK0000179139	255.4
No	WWPX-TV	D13	DT	LIC	MARTINSBURG, WV	BLANK0000117578	378.7
Yes	CKCO-DT	D13	DT	LIC	KITCHENER, ON	BLANKCANADA182	211.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D13-
Mask: Full Service
Latitude: 41 31 40.80 N (NAD83)
Longitude: 81 5 5.50 W
Height AMSL: 458.2 m
HAAT: 0.0 m
Peak ERP: 3.00 kW
Antenna: DIE-THA-MC2 (ID 38092) 289.0 deg
Elev Pattn: Generic

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.79 kW	88.4 m	43.2 km
45.0	0.373	123.3	34.4
90.0	0.000	162.1	1.5
135.0	0.000	140.9	1.5
180.0	0.657	93.0	34.2
225.0	2.94	93.2	44.4
270.0	1.12	86.6	36.7
315.0	1.51	94.5	40.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 110 m

****Proposal 21.00 dBu contour crosses Canadian border, coordination required**
Distance to Canadian border: 76.7 km

Distance to Mexican border: 2238.8 km

Conditions at FCC monitoring station: Canandaigua NY
Bearing: 62.6 degrees Distance: 350.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 273.7 degrees Distance: 2029.1 km

Study cell size: 1.00 km
Profile point spacing: 0.10 km

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

Interference to BLANK000219037 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIVX-LD	D13	LD	LIC	CLEVELAND, OH	BLANK000219037	
Undesireds:	W13DS-D	D13-	LD	APP	CLEVELAND, OH	W13DS ROT 289	60.8 km
	WTVG	D13	DT	LIC	TOLEDO, OH	BLANK0000143483	143.4
	W13DP-D	D13	LD	LIC	YOUNGSTOWN, OH	BLANK000090576	97.5
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	4449.2 1,853,235		4380.0 1,804,753		4248.2 1,726,135	4190.9 1,692,859	1.35 1.93
Undesired				Total IX	Unique IX, before	Unique IX, after	
W13DS-D D13- LD APP			98.5	66,873	57.3	33,276	
WTVG D13 DT LIC			130.8	78,364	130.8	78,364	
W13DP-D D13 LD LIC			1.0	254	1.0	254	

Interference to BLANK0000143483 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTVG	D13	DT	LIC	TOLEDO, OH	BLANK0000143483	
Undesireds:	W13DS-D	D13-	LD	APP	CLEVELAND, OH	W13DS ROT 289	194.3 km
	WINM	D12	DD	APP	ANGOLA, IN	BLANK0000218722	143.9
	WMFD-TV	D12	DT	LIC	MANSFIELD, OH	BLANK0000222027	121.9
	WTHR	D13	DT	LIC	INDIANAPOLIS, IN	BLANK0000153712	303.8
	WZZM	D13	DT	LIC	GRAND RAPIDS, MI	BLC DT20100726AKV	273.1
	CKCO-DT	D13	DT	LIC	KITCHENER, ON	BLANKCANADA182	297.3
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	25963.7 4,389,411		25802.1 4,374,854		25331.7 4,335,847	25314.6 4,335,847	0.07 0.00
	4332.2 389,070		4332.2 389,070		4332.2 389,070	4332.2 389,070	0.00 0.00 (in
Canada)							
Undesired				Total IX	Unique IX, before	Unique IX, after	
W13DS-D D13- LD APP			19.1	52	17.1	0	
WMFD-TV D12 DT LIC			73.4	728	72.4	715	
WTHR D13 DT LIC			50.2	1,715	27.2	1,416	
WZZM D13 DT LIC			368.8	36,824	345.7	36,525	
CKCO-DT D13 DT LIC			1.0	39	1.0	39	

Desired:	Call WTVG	Chan D13	Svc DT	Status LIC	City, State TOLEDO, OH	File Number BLANK0000143483	Distance		
Undesireds:	W13DS-D	D13-	LD	APP	CLEVELAND, OH	W13DS ROT 289	194.3 km		
	WINM	D12	DD	APP	ANGOLA, IN	BLANK0000218722	143.9		
	WMFD-TV	D12	DT	LIC	MANSFIELD, OH	BLANK0000222027	121.9		
	WTHR	D13	DT	APP	INDIANAPOLIS, IN	BPCDT20130702ABM	303.8		
	WZZM	D13	DT	LIC	GRAND RAPIDS, MI	BLCDT20100726AKV	273.1		
	CKCO-DT	D13	DT	LIC	KITCHENER, ON	BLANKCANADA182	297.3		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
25963.7	4,389,411	25802.1	4,374,854	25200.8	4,331,797	25183.8	4,331,797	0.07	0.00
4332.2	389,070	4332.2	389,070	4332.2	389,070	4332.2	389,070	0.00	0.00
(in Canada)									
Undesired				Total IX		Unique IX, before		Unique IX, after	
W13DS-D	D13-	LD	APP	19.1	52	17.1	0		
WMFD-TV	D12	DT	LIC	73.4	728	72.4	715		
WTHR	D13	DT	APP	210.0	7,257	158.1	5,466		
WZZM	D13	DT	LIC	368.8	36,824	316.8	35,033		
CKCO-DT	D13	DT	LIC	1.0	39	1.0	39		

Desired:	Call WTVG	Chan D13	Svc DT	Status LIC	City, State TOLEDO, OH	File Number BLANK0000143483	Distance		
Undesireds:	W13DS-D	D13-	LD	APP	CLEVELAND, OH	W13DS ROT 289	194.3 km		
	WINM	D12	DT	LIC	ANGOLA, IN	BLCDT20130711ABN	118.3		
	WMFD-TV	D12	DT	LIC	MANSFIELD, OH	BLANK0000222027	121.9		
	WTHR	D13	DT	LIC	INDIANAPOLIS, IN	BLANK0000153712	303.8		
	WZZM	D13	DT	LIC	GRAND RAPIDS, MI	BLCDT20100726AKV	273.1		
	CKCO-DT	D13	DT	LIC	KITCHENER, ON	BLANKCANADA182	297.3		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
25963.7	4,389,411	25802.1	4,374,854	25324.7	4,335,494	25307.6	4,335,494	0.07	0.00
4332.2	389,070	4332.2	389,070	4332.2	389,070	4332.2	389,070	0.00	0.00 (in
Canada)									
Undesired				Total IX		Unique IX, before		Unique IX, after	
W13DS-D	D13-	LD	APP	19.1	52	17.1	0		
WINM	D12	DT	LIC	20.1	452	7.0	353	7.0	353
WMFD-TV	D12	DT	LIC	73.4	728	73.4	728	72.4	715
WTHR	D13	DT	LIC	50.2	1,715	24.2	1,397	24.2	1,397
WZZM	D13	DT	LIC	368.8	36,824	344.7	36,523	344.7	36,523
CKCO-DT	D13	DT	LIC	1.0	39	1.0	39	0.0	0

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WTVG	D13	DT	LIC	TOLEDO, OH	BLANK0000143483			
Undesireds:	W13DS-D	D13-	LD	APP	CLEVELAND, OH	W13DS ROT 289	194.3 km		
	WINM	D12	DT	LIC	ANGOLA, IN	BLCDDT20130711ABN	118.3		
	WMFD-TV	D12	DT	LIC	MANSFIELD, OH	BLANK0000222027	121.9		
	WTHR	D13	DT	APP	INDIANAPOLIS, IN	BPCDDT20130702ABM	303.8		
	WZZM	D13	DT	LIC	GRAND RAPIDS, MI	BLCDDT20100726AKV	273.1		
	CKCO-DT	D13	DT	LIC	KITCHENER, ON	BLANKCANADA182	297.3		
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX				
25963.7	4,389,411	25802.1	4,374,854	25199.8	4,331,778	25182.7	4,331,778	0.07	0.00
4332.2	389,070	4332.2	389,070	4332.2	389,070	4332.2	389,070	0.00	0.00 (in Canada)

Undesired		Total IX	Unique IX, before	Unique IX, after
W13DS-D D13- LD APP	19.1	52		17.1 0
WINM D12 DT LIC	20.1	452	1.0 19	1.0 19
WMFD-TV D12 DT LIC	73.4	728	73.4 728	72.4 715
WTHR D13 DT APP	210.0	7,257	149.1 5,113	149.1 5,113
WZZM D13 DT LIC	368.8	36,824	316.8 35,033	316.8 35,033
CKCO-DT D13 DT LIC	1.0	39	1.0 39	0.0 0

Interference to BLANK0000090576 LIC scenario 1

Desired:	Call W13DP-D	Chan D13	Svc LD	Status LIC	City, State YOUNGSTOWN, OH	File Number BLANK0000090576	Distance
Undesireds:	W13DS-D	D13-	LD	APP	CLEVELAND, OH	W13DS ROT 289	62.1 km
	Service area 3654.5		Terrain-limited 602,206		IX-free, before 3613.4 597,099	IX-free, after 3422.1 586,176	Percent New IX 5.30 1.83
Undesired		Total IX	Unique IX, before	Unique IX, after			
W13DS-D D13- LD APP	191.4	10,923		191.4 10,923			

Interference to BLANKCANADA182 LIC scenario 1

Desired:	Call CKCO-DT	Chan D13	Svc DT	Status LIC	City, State KITCHENER, ON	File Number BLANKCANADA182	Distance
Undesireds:	W13DS-D	D13-	LD	APP	CLEVELAND, OH	W13DS ROT 289	211.8 km
	WNVI	D13	DT	LIC	ITHACA, NY	BLANK0000181680	347.1
	WTVG	D13	DT	LIC	TOLEDO, OH	BLANK0000143483	297.3
	CKWS-DT	D13	DT	LIC	KINGSTON, ON	BLANKCANADA181	348.0
	Service area 27339.1		Terrain-limited 4,346,989		IX-free, before 25502.7 3,798,650	IX-free, after 25125.6 3,718,951	Percent New IX 0.23 0.06
Undesired		Total IX	Unique IX, before	Unique IX, after			
W13DS-D D13- LD APP	181.3	10,156		57.4 2,411			
WNVI D13 DT LIC	5.0	8,089	3.0 6,704	3.0 6,704			
WTVG D13 DT LIC	278.3	14,193	278.3 14,193	154.4 6,448			
CKWS-DT D13 DT LIC	38.4	56,391	36.4 55,006	36.4 55,006			

Interference to proposal scenario 1
16.18% interference received

Desired:	Call W13DS-D	Chan D13-	Svc LD	Status APP	City, State CLEVELAND, OH	File Number W13DS ROT 289	Distance
Undesireds:	WIVX-LD	D13	LD	LIC	CLEVELAND, OH	BLANK0000219037	60.8 km
	WTVG	D13	DT	LIC	TOLEDO, OH	BLANK0000143483	194.3
	W13DP-D	D13	LD	LIC	YOUNGSTOWN, OH	BLANK0000090576	62.1
	CKCO-DT	D13	DT	LIC	KITCHENER, ON	BLANKCANADA182	211.8
	Service area 3592.7		Terrain-limited 657,926		IX-free 3452.0 578,696	Percent IX 3122.9 485,070	9.53 16.18
Undesired		Total IX	Unique IX	Prct Unique IX			
WIVX-LD D13 LD LIC	121.4	73,550	96.3 48,220	2.79 8.33			
WTVG D13 DT LIC	29.1	28,912	5.0 3,590	0.15 0.62			
W13DP-D D13 LD LIC	198.7	16,176	197.7 16,168	5.73 2.79			
CKCO-DT D13 DT LIC	5.0	318	5.0 318	0.14 0.05			