INTERFERENCE ANALYSIS FOR PROPOSED WHIZ-TV, ZANESVILLE, OH, CHANNEL 30

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: whizap2, Model: Longley-Rice

Study build station data: LMS TV 2019-03-26

    Proposal: WHIZAP2 D30 DT APP ZANESVILLE, OH
 File number: whizap2
 Facility ID: 61216
Station data: User record
   Record ID: 3813
     Country: U.S.
        Zone: I

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WNEO	D29	DT	CP	ALLIANCE, OH	BLANK0000034304	141.7 km
No	WPTO	D29	DT	CP	OXFORD, OH	BLANK0000034602	235.1
No	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	227.5
No	WWAT-CD	D29	DC	CP	CHARLEROI, PA	BLANK0000034569	173.7
No	WCHS-TV	D29	DT	LIC	CHARLESTON, WV	BLANK0000059340	169.2
No	WSJV	D30	DT	CP	ELKHART, IN	BLANK0000027461	400.8
No	WKPC-TV	D30	DT	CP	LOUISVILLE, KY	BLANK0000034634	374.2
Yes	WKMR	D30	DT	CP	MOREHEAD, KY	BLANK0000029752	230.0
No	WNEM-TV	D30	DT	CP	BAY CITY, MI	BLANK0000024833	422.8
Yes	WPTG-CD	D30	DC	CP	PITTSBURGH, PA	BLANK0000029758	181.0
Yes	WBYD-CD	D30	DC	BL	PITTSBURGH, PA	DTVBL68395	181.0
Yes	WDBJ	D30	DT	CP	ROANOKE, VA	BLANK0000029919	342.8
No	WDTN	D31	DT	CP	DAYTON, OH	BLANK0000034768	195.3
No	WYTV	D31	DT	CP	YOUNGSTOWN, OH	BLANK0000034845	169.0
No	WOAY-TV	D31	DT	CP	OAK HILL, WV	BLANK0000028013	230.7

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
   Latitude: 39 55 42.00 N (NAD83)
  Longitude: 81 59 6.00 W
Height AMSL: 422.6 m
       HAAT: 169.0 m
   Peak ERP: 500 kW
    Antenna: ERI-ATW16H2-ETOX-30H 0.0 deg
Elev Pattrn: Generic
  Elec Tilt: 0.50

40.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	431 kW	184.8 m	78.0 km
45.0	205	152.2	71.4
90.0	165	173.9	72.0
135.0	229	166.8	73.2
180.0	172	187.2	73.2
225.0	206	165.0	72.5
270.0	432	144.4	74.7
315.0	500	175.0	78.0

**Proposal is within coordination distance of Canadian border
Distance to Canadian border: 197.4 km

Distance to Mexican border: 2078.9 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 313.2 degrees   Distance: 445.5 km

Proposal is not within the West Virginia quiet zone area

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Conditions at Table Mountain receiving zone:
Bearing: 278.2 degrees Distance: 1972.1 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 BLANK0000029752 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKMR	D30	DT	CP	MOREHEAD, KY	BLANK0000029752	
Undesireds:	WHIZ-TV	D30	DT	BL	ZANESVILLE, OH	DTVBL61216	230.0 km
	WHIZAP2	D30	DT	APP	ZANESVILLE, OH	whizap2	230.0
	WCHS-TV	D29	DT	LIC	CHARLESTON, WV	BLANK0000059340	133.5
	WKPC-TV	D30	DT	CP	LOUISVILLE, KY	BLANK0000034634	212.8
	WDBJ	D30	DT	CP	ROANOKE, VA	BLANK0000029919	305.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
18263.5	463,316	17481.7	428,462	17338.0	423,973	17342.0	423,973	-0.02	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WHIZ-TV D30 DT BL	56.2	2,083	44.2	1,340		
WHIZAP2 D30 DT APP	48.2	1,570			40.1	1,340
WCHS-TV D29 DT LIC	39.9	1,665	27.8	849	31.9	1,362
WKPC-TV D30 DT CP	47.7	1,425	39.7	259	39.7	259
WDBJ D30 DT CP	24.0	1,301	11.9	283	11.9	283

Interference to BLANK0000029758 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPTG-CD	D30	DC	CP	PITTSBURGH, PA	BLANK0000029758	
Undesireds:	WHIZ-TV	D30	DT	BL	ZANESVILLE, OH	DTVBL61216	181.0 km
	WHIZAP2	D30	DT	APP	ZANESVILLE, OH	whizap2	181.0
	WNEO	D29	DT	CP	ALLIANCE, OH	BLANK0000034304	94.8
	WWAT-CD	D29	DC	CP	CHARLEROI, PA	BLANK0000034569	34.5
	WBYD-CD	D30	DC	BL	PITTSBURGH, PA	DTVBL68395	0.0
	WYTV	D31	DT	CP	YOUNGSTOWN, OH	BLANK0000034845	88.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
8725.7	2,158,749	8252.2	2,067,067	2637.8	591,575	2637.8	591,575	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WHIZ-TV D30 DT BL	48.2	5,485	0.0	0		
WHIZAP2 D30 DT APP	40.1	5,167			0.0	0
WNEO D29 DT CP	16.0	1,902	0.0	0	0.0	0
WWAT-CD D29 DC CP	96.8	18,136	4.0	24	4.0	24
WBYD-CD D30 DC BL	5610.4	1,475,468	5429.5	1,447,352	5437.5	1,447,670
WYTV D31 DT CP	36.0	4,390	0.0	0	0.0	0

Interference to DTVBL68395 BL scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WBYD-CD	D30	DC	BL	PITTSBURGH, PA	DTVBL68395	
Undesireds:	WHIZ-TV	D30	DT	BL	ZANESVILLE, OH	DTVBL61216	181.0 km
	WHIZAP2	D30	DT	APP	ZANESVILLE, OH	whizap2	181.0
	WWAT-CD	D29	DC	CP	CHARLEROI, PA	BLANK0000034569	34.5
	WPTG-CD	D30	DC	CP	PITTSBURGH, PA	BLANK0000029758	0.0
	WYTV	D31	DT	CP	YOUNGSTOWN, OH	BLANK0000034845	88.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
6709.5	1,974,699	6280.3	1,871,930	1936.2	509,861	1936.2	509,861	0.00	0.00

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Undesired		Total IX	Unique IX, before		Unique IX, after	
WHIZ-TV D30 DT BL	20.0	2,054	0.0	0		
WHIZAP2 D30 DT APP	20.0	2,054			0.0	0
WWAT-CD D29 DC CP	52.4	10,669	4.0	149	4.0	149
WPTG-CD D30 DC CP	4340.1	1,361,920	4259.7	1,347,380	4259.7	1,347,380
WYTV D31 DT CP	16.0	2,470	0.0	0	0.0	0

Interference to BLANK0000029919 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDBJ	D30	DT	CP	ROANOKE, VA	BLANK0000029919	
Undesireds:	WHIZ-TV	D30	DT	BL	ZANESVILLE, OH	DTVBL61216	342.8 km
	WHIZAP2	D30	DT	APP	ZANESVILLE, OH	whizap2	342.8
	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	150.5
	WCHS-TV	D29	DT	LIC	CHARLESTON, WV	BLANK0000059340	204.2
	WIAV-CD	D30	DC	CP	WASHINGTON, DC	BLANK0000029340	331.6
	WKMR	D30	DT	CP	MOREHEAD, KY	BLANK0000029752	305.9
	WUNU	D30	DT	CP	LUMBERTON, NC	BLANK0000034418	284.6
	WYFF	D30	DT	CP	GREENVILLE, SC	BLANK0000034525	319.3
	WDCO-CD	D30	DC	BL	Woodstock, VA	DTVBL57905	284.7
	WGHP	D31	DT	CP	HIGH POINT, NC	BLANK0000034212	156.2
	WOAY-TV	D31	DT	CP	OAK HILL, WV	BLANK0000028013	121.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
46715.1	1,626,017	40697.9	1,435,762	39607.0	1,393,381	39607.0	1,393,381	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WHIZ-TV D30 DT BL	87.0	491	35.6	89		
WHIZAP2 D30 DT APP	87.0	491			35.6	89
WXLV-TV D29 DT LIC	299.2	20,904	159.6	7,193	159.6	7,193
WCHS-TV D29 DT LIC	27.7	109	0.0	0	0.0	0
WIAV-CD D30 DC CP	19.8	144	15.9	144	15.9	144
WKMR D30 DT CP	107.3	2,036	47.8	1,547	47.8	1,547
WUNU D30 DT CP	350.8	14,919	119.5	3,276	119.5	3,276
WYFF D30 DT CP	438.7	21,545	195.4	5,875	195.4	5,875
WDCO-CD D30 DC BL	4.0	0	0.0	0	0.0	0
WGHP D31 DT CP	95.7	6,633	8.0	50	8.0	50
WOAY-TV D31 DT CP	186.3	4,665	122.9	4,272	122.9	4,272

Interference to proposal scenario 1
2.20% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIZAP2	D30	DT	APP	ZANESVILLE, OH	whizap2	
Undesireds:	WKMR	D30	DT	CP	MOREHEAD, KY	BLANK0000029752	230.0 km
	WPTG-CD	D30	DC	CP	PITTSBURGH, PA	BLANK0000029758	181.0
	WBYD-CD	D30	DC	BL	PITTSBURGH, PA	DTVBL68395	181.0
	WDBJ	D30	DT	CP	ROANOKE, VA	BLANK0000029919	342.8

Service area		Terrain-limited		IX-free		Percent IX	
17259.8	917,531	16688.8	847,762	16549.1	829,132	0.84	2.20

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WKMR D30 DT CP	103.8	17,377	51.8	5,524	0.31	0.65
WPTG-CD D30 DC CP	64.0	12,237	8.0	318	0.05	0.04
WBYD-CD D30 DC BL	8.0	463	0.0	0	0.00	0.00
WDBJ D30 DT CP	27.9	909	16.0	432	0.10	0.05
