

INTERFERENCE ANALYSIS FOR PROPOSED KMIZ, COLUMBIA, MO, FACILITY (CHANNEL 17)

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: kmiz0823a, Model: Longley-Rice

Study build station data: LMS TV 2023-08-12

Proposal: KMIZ0823A D17 DT APP COLUMBIA, MO
File number: kmiz0823a
Facility ID: 63164
Station data: User record
Record ID: 5196
Country: U.S.
Zone: II

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KOZK	D16	DT	LIC	SPRINGFIELD, MO	BLANK0000096081	181.2 km
No	KWQC-TV	D17	DT	LIC	DAVENPORT, IA	BLANK0000097891	355.1
No	KDIT-CD	D17-	DC	LIC	Des Moines, IA	BLANK0000199021	351.1
No	KAAS-TV	D17	DT	LIC	SALINA, KS	BLANK0000211780	419.2
No	WKMU	D17	DT	LIC	MURRAY, KY	BLANK0000087481	422.4
No	WKOH	D17	DT	LIC	OWENSBORO, KY	BLANK0000087401	467.3
Yes	KSNF	D17	DT	LIC	JOPLIN, MO	BLANK0000071604	257.6
No	KYNE-TV	D17	DT	LIC	OMAHA, NE	BLANK0000123806	407.9
No	WSEC	D18	DT	LIC	JACKSONVILLE, IL	BLANK0000150703	235.0
No	KCPT	D18	DT	LIC	KANSAS CITY, MO	BLANK0000153755	169.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17
Latitude: 38 46 32.10 N (NAD83)
Longitude: 92 33 24.90 W
Height AMSL: 575.6 m
HAAT: 352.0 m
Peak ERP: 231 kW
Antenna: RFS-RD240M488548L3S (ID 1007598) 0.0 deg
Elev Pattnr: Generic
Elec Tilt: 0.75

39.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	136 kW	356.6 m	89.6 km
45.0	214	357.6	93.2
90.0	218	360.5	93.6
135.0	147	381.2	92.2
180.0	84.8	351.5	85.6
225.0	105	345.1	86.6
270.0	109	321.7	84.3
315.0	84.3	341.4	84.5

Distance to Canadian border: 873.6 km

Distance to Mexican border: 1287.6 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 297.3 degrees Distance: 554.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 281.8 degrees Distance: 1096.6 km

No land mobile station failures found

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%

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Interference to BLANK0000071604 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSNF	D17	DT	LIC	JOPLIN, MO	BLANK0000071604	
Undesireds:	KMIZ	D17	DT	BL	COLUMBIA, MO	DTVBL63164	257.6 km
	KMIZ0823A	D17	DT	APP	COLUMBIA, MO	kmiz0823a	257.6
	KOZK	D16	DT	LIC	SPRINGFIELD, MO	BLANK0000096081	143.4
	KTEN	D17	DT	LIC	ADA, OK	BLANK0000116861	352.0
	KUTU-CD	D17	DC	LIC	TULSA, OK	BLANK0000117970	164.3
	KFSM-TV	D18	DT	CP	FORT SMITH, AR	BLANK0000216674	142.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
26868.7		621,919		26569.5		617,868	25934.8 595,980
						25934.8	595,980 0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KMIZ D17 DT BL		107.7		674		47.7 156	
KMIZ0823A D17 DT APP		95.6		583		47.7 156	
KOZK D16 DT LIC		196.1		2,472		140.1 1,978	
KTEN D17 DT LIC		44.0		442		16.0 134	
KUTU-CD D17 DC LIC		219.2		1,149		187.2 817	
KFSM-TV D18 DT CP		155.7		17,977		155.7 17,977	

Interference to BLANK0000071604 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KSNF	D17	DT	LIC	JOPLIN, MO	BLANK0000071604	
Undesireds:	KMIZ	D17	DT	BL	COLUMBIA, MO	DTVBL63164	257.6 km
	KMIZ0823A	D17	DT	APP	COLUMBIA, MO	kmiz0823a	257.6
	KOZK	D16	DT	LIC	SPRINGFIELD, MO	BLANK0000096081	143.4
	KTEN	D17	DT	LIC	ADA, OK	BLANK0000116861	352.0
	KUTU-CD	D17	DC	LIC	TULSA, OK	BLANK0000117970	164.3
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	142.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
26868.7		621,919		26569.5		617,868	25966.7 599,724
						25966.7	599,724 0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KMIZ D17 DT BL		107.7		674		47.7 156	
KMIZ0823A D17 DT APP		95.6		583		47.7 156	
KOZK D16 DT LIC		196.1		2,472		140.1 1,978	
KTEN D17 DT LIC		44.0		442		16.0 134	
KUTU-CD D17 DC LIC		219.2		1,149		187.2 817	
KFSM-TV D18 DT LIC		123.8		14,233		123.8 14,233	

Interference to proposal scenario 1
0.87% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMIZ0823A	D17	DT	APP	COLUMBIA, MO	kmiz0823a	
Undesireds:	KWQC-TV	D17	DT	LIC	DAVENPORT, IA	BLANK0000097891	355.1 km
	KSNF	D17	DT	LIC	JOPLIN, MO	BLANK0000071604	257.6
	KCPT	D18	DT	LIC	KANSAS CITY, MO	BLANK0000153755	169.8
Service area		Terrain-limited		IX-free		Percent IX	
24753.0		554,436		24514.1		551,628	24239.4 546,813
							1.12 0.87
Undesired		Total IX		Unique IX		Prcnt Unique IX	
KWQC-TV D17 DT LIC		27.8		1,273		27.8 1,273	
KSNF D17 DT LIC		246.9		3,542		242.9 3,523	
KCPT D18 DT LIC		4.0		19		0.0 0	
