

K22KA_D FI 185558

Minor Modification: Change ASR, ERP, antenna make and model. ASR 1057210 is outside the 121km circle for Springfield. Controlled access site.

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: ASR 1057210 @ 180, Model: Longley-Rice
Start: 2022.07.01 12:33:34

Study created: 2022.07.01 12:33:34

Study build station data: LMS TV 2022-06-29

Proposal: K22KA-D D23 LD CP ROLLA, MO
File number: ASR 1057210 @ 180
Facility ID: 185558
Station data: User record
Record ID: 1185
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WVDM-LD	D22	LD	LIC	QUINCY, IL	BLANK0000083846	157.9 km
No	KHQA-TV	D22	DT	CP	HANNIBAL, MO	BLANK0000152836	226.3
Yes	KRBK	D22	DT	LIC	OSAGE BEACH, MO	BLANK0000171221	133.3
No	K23OW-D	D23	LD	LIC	HOT SPRINGS, AR	BLANK0000087667	393.1
No	KCWI-TV	D23	DT	APP	AMES, IA	BPCDT20130205AAY	457.7
No	KCWI-TV	D23	DT	LIC	AMES, IA	BLCDT20090612AIO	457.7
No	W23EQ-D	D23	LD	LIC	DANVILLE, IL	BLANK0000068569	425.7
No	WQPT-TV	D23	DT	LIC	MOLINE, IL	BLANK0000142182	390.5
No	WUSI-TV	D23	DT	LIC	OLNEY, IL	BLANK0000087280	331.1
No	W23EW-D	D23	LD	LIC	SPRINGFIELD, IL	BLANK0000113887	276.8
No	W23BV-D	D23	LD	LIC	EVANSVILLE, IN	BLDTA20090720ACU	355.1
No	WKPD	D23	DT	LIC	PADUCAH, KY	BLANK0000087419	289.1
No	KODE-TV	D23	DT	LIC	JOPLIN, MO	BLANK0000071606	265.1
No	KCDN-LD	D23	LD	LIC	KANSAS CITY, MO	BLANK0000112964	266.6
No	KTPE-LD	D23	LD	LIC	Kansas city, MO	BLANK0000120926	356.1
No	K23LE-D	D23	LD	CP	SEDALIA, MO	BNPDTL20100319AEZ	149.0
No	KETC	D23	DT	LIC	ST. LOUIS, MO	BLANK0000055432	132.4
No	WTWV	D23	DT	LIC	MEMPHIS, TN	BLANK0000048888	352.0
No	KYCW-LD	D24	LD	LIC	BRANSON, MO	BLANK0000108531	135.9
No	KCTV	D24	DT	LIC	KANSAS CITY, MO	BLANK0000153301	274.3
No	KMOV	D24	DT	LIC	ST. LOUIS, MO	BLANK0000157749	142.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D23
Mask: Simple
Latitude: 37 57 51.40 N (NAD83)
Longitude: 91 45 48.80 W
Height AMSL: 364.8 m (Adjusted based on actual ground elevation calculation)
HAAT: 0.0 m
Peak ERP: 0.100 kW
Antenna: SBP-UPSL (ID 100733) 180.0 deg
Elev Pattnr: None

49.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	52.7 m	2.3 km
45.0	0.000	46.8	2.3
90.0	0.000	60.6	2.3
135.0	0.023	59.3	10.0

180.0	0.100	44.4	12.3
225.0	0.023	93.6	12.4
270.0	0.000	74.1	1.5
315.0	0.000	98.0	1.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 66 m

Distance to Canadian border: 858.0 km

Distance to Mexican border: 1271.5 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 302.0 degrees Distance: 659.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 285.8 degrees Distance: 1185.3 km

Study cell size: 1.00 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 BLANK0000171221 LIC scenario 1

Distance	Call	Chan	Svc	Status	City, State	File Number	
Desired:	KRBK	D22	DT	LIC	OSAGE BEACH, MO	BLANK0000171221	
Undesireds:	K22KA-D	D23	LD	CP	ROLLA, MO	ASR 1057210 @ 180	133.3
km							
	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLANK0000149936	272.4
	KHQA-TV	D22	DT	CP	HANNIBAL, MO	BLANK0000152836	336.7
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	277.2
	KODE-TV	D23	DT	LIC	JOPLIN, MO	BLANK0000071606	143.1
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent
New IX							
41512.7	983,650	40709.5		967,955	39420.6	936,223	0.00
0.00							
Undesired				Total IX	Unique IX, before	Unique IX, after	
K22KA-D D23 LD CP		1.0		0		0.0	0
KATV D22 DT LIC		511.3		14,581	442.0	11,122	442.0
KHQA-TV D22 DT CP		268.4		3,637	266.4	3,637	265.4
KOKI-TV D22 DT LIC		417.9		15,377	166.0	3,234	166.0
KODE-TV D23 DT LIC		353.2		10,904	159.6	1,552	159.6

Interference to BLANK0000171221 LIC scenario 2

Distance	Call	Chan	Svc	Status	City, State	File Number	
Desired:	KRBK	D22	DT	LIC	OSAGE BEACH, MO	BLANK0000171221	
Undesireds:	K22KA-D	D23	LD	CP	ROLLA, MO	ASR 1057210 @ 180	133.3
km							
	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLANK0000149936	272.4
	KHQA-TV	D22	DT	BL	HANNIBAL, MO	DTVBL4690	336.7
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	277.2
	KODE-TV	D23	DT	LIC	JOPLIN, MO	BLANK0000071606	143.1

	Service area		Terrain-limited		IX-free, before		IX-free, after	Percent
New IX								
41512.7	983,650	40709.5	967,955	39420.6	936,223	39420.6	936,223	0.00
0.00								

Undesired			Total IX		Unique IX, before		Unique IX, after
K22KA-D D23 LD CP	1.0		0			0.0	0
KATV D22 DT LIC	511.3		14,581	442.0	11,122	442.0	11,122
KHQA-TV D22 DT BL	268.4		3,637	266.4	3,637	265.4	3,637
KOKI-TV D22 DT LIC	417.9		15,377	166.0	3,234	166.0	3,234
KODE-TV D23 DT LIC	353.2		10,904	159.6	1,552	159.6	1,552

Interference to proposal scenario 1
2.78% interference received

Distance	Call	Chan	Svc	Status	City, State	File Number	
Desired:	K22KA-D	D23	LD	CP	ROLLA, MO	ASR 1057210 @ 180	
Undesireds:	KODE-TV	D23	DT	LIC	JOPLIN, MO	BLANK0000071606	265.1
km	KETC	D23	DT	LIC	ST. LOUIS, MO	BLANK0000055432	132.4

	Service area		Terrain-limited		IX-free		Percent IX
	167.8	24,407	161.7	24,226	153.7	23,553	5.00 2.78
Undesired			Total IX		Unique IX		Prcnt Unique IX
KODE-TV D23 DT LIC	2.0		440	0.0	0	0.00	0.00
KETC D23 DT LIC	8.1		673	6.1	233	3.75	0.96

K23PC-D/K22KA-D.C

0000071816

Latitude: 37-57-53.70 N

Longitude: 091-47-01.90 W

ERP: 15.00 kW

Channel: 23

Frequency: 527.0 MHz

AMSL Height: 461.4 m

Elevation: 341.4 m

Horiz. Pattern: Directional

Vert. Pattern: Yes

Elec Tilt: 1.25

Prop Model: Longley-Rice

Climate: Cont temperate

Conductivity: 0.0050

Dielec Const: 15.0

Refractivity: 311.0


Receiver Ht AG: 10.0 m

Receiver Gain: 0 dB

Time Variability: 90.0%

Sit. Variability: 50.0%

ITM Mode: Broadcast

 Line of Sight