

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Mulberry17d9kwELTI260T, Model: Longley-Rice

Start: 2021.07.20 09:31:48

Study created: 2021.07.20 09:31:48

Study build station data: LMS TV 2021-07-20

Proposal: K42LD-D D17 LD APP MULBERRY, AR

Facility ID: 185930

Station data: User record

Record ID: 669

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	K16IP-D	D16	LD	LIC	BONNERDALE, AR	BLDTL20130613ABF	156.2 km
No	K16JO-D	D16	LD	CP	CLARKSVILLE, AR	BNPDTL20100504AMJ	42.5
No	KAJL-LD	D16	LD	LIC	FAYETTEVILLE, AR	BLANK0000112285	69.6
No	KVTH-DT	D16	DT	LIC	HOT SPRINGS, AR	BLANK0000064046	157.8
No	K16IS-D	D16	LD	CP	PITTSBURG, KS	BNPDTL20100106AGF	216.9
No	KOZK	D16	DT	LIC	SPRINGFIELD, MO	BLANK0000096081	207.6
No	KWHB	D16	DT	LIC	TULSA, OK	BLANK0000067852	181.0
No	K17LD-D	D17	LD	CP	FAYETTEVILLE, AR	BNPDTL20100728ACL	60.8
No	K17LV-D	D17	LD	CP	PARAGOULD, AR	BNPDTL20101019AAN	337.2
No	KPTS	D17	LD	LIC	HUTCHINSON, KS	BLDTL20131106AHP	387.8
No	KLTS-TV	D17	DT	LIC	SHREVEPORT, LA	BLANK0000130084	317.4
No	K17DL-D	D17	LD	LIC	BRANSON, MO	BLANK0000072816	151.8
No	KMIZ	D17	DT	CP	COLUMBIA, MO	BLANK0000127487	383.9
No	KMIZ	D17	DT	LIC	COLUMBIA, MO	BLANK0000089534	383.9
No	KSNF	D17	DT	LIC	JOPLIN, MO	BLANK0000071604	177.5
No	KAJF-LD	D17	LD	LIC	Kansas city, MO	BLANK0000124483	389.4
No	WXVT-LD	D17	LD	LIC	CLEVELAND, MS	BLANK0000025210	370.0
No	KTEN	D17	DT	LIC	ADA, OK	BLANK0000116861	263.4

No	K17JN-D	D17	LD	LIC	ENID, OK	BLANK0000055105	368.6
No	KUTU-CD	D17	DC	LIC	TULSA, OK	BLANK0000117970	188.1
Yes	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	34.6
No	KTVV-LD	D18	LD	LIC	HOT SPRINGS, AR	BLANK0000062885	162.8
No	DKTWN-LD	D18	LD	APP	LITTLE ROCK, AR	BLDTL20070521AAM	192.2
No	K18NM-D	D18	LD	CP	TEXARKANA, AR	BLANK0000071802	216.4
No	K21JS	N21	TX	LIC	HARRISON, AR	BLTTL20111121DXG	108.6

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
 Mask: Stringent
 Latitude: 35 31 54.40 N (NAD83)
 Longitude: 94 2 49.00 W
 Height AMSL: 169.4 m (Adjusted based on actual ground elevation calculation)
 HAAT: 0.0 m
 Peak ERP: 9.00 kW
 Antenna: ELTI-ELTI UHF Panel (ID 1008435) 260.0 deg
 Elev Pattn: Generic

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.025 kW	-153.4 m	7.5 km
45.0	0.048	-35.5	8.8
90.0	0.010	11.7	6.0
135.0	0.048	-7.6	8.8
180.0	0.061	14.1	9.4
225.0	3.44	51.5	30.4
270.0	8.21	-65.1	28.6
315.0	0.807	-98.3	17.9

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: -35 m

Distance to Canadian border: 1182.5 km

Distance to Mexican border: 939.4 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 328.8 degrees Distance: 710.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 300.8 degrees Distance: 1104.7 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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 BLCDT20060530AIM LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	
Undesireds:	K42LD-D	D17	LD	APP	MULBERRY, AR		34.6 km
	KSNF	D17	DT	LIC	JOPLIN, MO	BLANK0000071604	142.9
	KMYA-DT	D18	DT	CP	CAMDEN, AR	BLANK0000028486	314.0
	KVTJ-DT	D18	DT	LIC	JONESBORO, AR	BLANK0000064048	329.0
	KCPT	D18	DT	LIC	KANSAS CITY, MO	BLEDT20090821AAU	362.7
	KOPX-TV	D18	DT	LIC	OKLAHOMA CITY, OK	BLANK0000073170	302.2
	KYTV	D19	DT	LIC	SPRINGFIELD, MO	BLANK0000073156	184.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
26597.8 906,988	25434.3 886,235	25053.4 879,110	25001.8 876,420	0.21 0.31

Undesired	Total IX	Unique IX, before	Unique IX, after
K42LD-D D17 LD APP	52.6 2,690	51.6 2,690	
KSNF D17 DT LIC	43.2 494	32.2 374	
KMYA-DT D18 DT CP	63.6 2,843	42.8 2,109	
KVTJ-DT D18 DT LIC	38.9 1,724	16.0 951	
KCPT D18 DT LIC	41.2 438	25.1 275	
KOPX-TV D18 DT LIC	217.8 2,547	212.8 2,413	
KYTV D19 DT LIC	18.1 129	13.1 63	

Interference to BLCDT20060530AIM LIC scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	
Undesireds: K42LD-D	D17	LD	APP	MULBERRY, AR		34.6 km
KSNF	D17	DT	LIC	JOPLIN, MO	BLANK0000071604	142.9
KMYA-DT	D18	DT	BL	CAMDEN, AR	DTVBL86534	314.0
KVTJ-DT	D18	DT	LIC	JONESBORO, AR	BLANK0000064048	329.0
KCPT	D18	DT	LIC	KANSAS CITY, MO	BLEDT20090821AAU	362.7
KOPX-TV	D18	DT	LIC	OKLAHOMA CITY, OK	BLANK0000073170	302.2
KYTV	D19	DT	LIC	SPRINGFIELD, MO	BLANK0000073156	184.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
26597.8 906,988	25434.3 886,235	25052.5 879,110	25000.8 876,420	0.21 0.31

Undesired	Total IX	Unique IX, before	Unique IX, after
K42LD-D D17 LD APP	52.6 2,690	51.6 2,690	
KSNF D17 DT LIC	43.2 494	32.2 374	
KMYA-DT D18 DT BL	64.6 2,843	43.8 2,109	
KVTJ-DT D18 DT LIC	38.9 1,724	16.0 951	
KCPT D18 DT LIC	41.2 438	25.1 275	
KOPX-TV D18 DT LIC	217.8 2,547	212.8 2,413	
KYTV D19 DT LIC	18.1 129	13.1 63	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K42LD-D	D17	LD	APP	MULBERRY, AR		
Undesireds:	KSNF	D17	DT	LIC	JOPLIN, MO	BLANK0000071604	177.5 km
	KTEN	D17	DT	LIC	ADA, OK	BLANK0000116861	263.4
	KFSM-TV	D18	DT	LIC	FORT SMITH, AR	BLCDT20060530AIM	34.6

Service area		Terrain-limited		IX-free		Percent IX	
907.0	45,426	880.2	44,778	858.4	43,887	2.48	1.99

Undesired	Total IX	Unique IX	Prcnt Unique IX
KSNF D17 DT LIC	1.0 8 0.0	0	0.00 0.00
KTEN D17 DT LIC	7.9 601 6.0	593	0.68 1.32
KFSM-TV D18 DT LIC	14.9 290 13.9	290	1.58 0.65