

tvstudy v2.2.5 (4uoc83)  
 Database: localhost, Study: K21FD 1 KW, Model: Longley-Rice  
 Start: 2020.02.05 23:24:50

Study created: 2020.02.05 23:24:50

Study build station data: LMS TV 2020-01-12

Proposal: K21FD-D D21 LD LIC TA0S, ETC., NM  
 File number: K21FD 1 KW  
 Facility ID: 48572  
 Station data: User record  
 Record ID: 651  
 Country: U.S.

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

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	KNMQ-LD	D20	LD	LIC	ALBUQUERQUE, NM	BLANK0000072913	154.8 km
No	K20GQ-D	D20	LD	LIC	LAS VEGAS, NM	BLDTT20091112AKK	91.8
No	K20CV-D	D20	LD	LIC	RATON, NM	BLDTT20101008AAL	105.7
No	K49ET-D	D21	LD	CP	MANY FARMS, AZ	BLANK0000053898	317.5
No	K21HF-D	D21	LD	LIC	ASPEN, CO	BLDTT20121119AHA	334.2
No	K210G-D	D21	LD	LIC	BAYFIELD, CO	BLANK0000080746	193.7
No	K21LC-D	D21	LD	LIC	CORTEZ, CO	BLDTT20140102ATL	253.5
No	KDE0-LD	D21	LD	CP	DENVER, CO	BLANK0000049532	371.7
No	K21GT-D	D21	LD	LIC	DOVE CREEK, ETC, CO	BLDTT20120615ABE	334.8
No	KFCT	D21	DT	LIC	FORT COLLINS, CO	BLCDT20070920ACM	476.0
No	K21JK-D	D21	LD	CP	MONTR0SE, CO	BLANK0000058503	317.3
No	K21JK-D	D21	LD	LIC	MONTR0SE, CO	BLDTL20081107AEK	316.8
No	K21EF-D	D21	LD	LIC	PITKIN, CO	BLDTT20101129AMG	260.3
No	KGHB-CD	D21z	DC	LIC	PUEBLO, ETC., CO	BLANK0000072765	236.0
No	K44JQ-D	D21	LD	CP	REDSTONE, CO	BLANK0000080469	348.3
No	K21LR-D	D21	LD	CP	ALAMOGORDO, NM	BDCCDTL20110301ABA	397.8
No	KYNM-CD	D21	DC	LIC	ALBUQUERQUE, NM	BLANK0000001606	154.8
No	K42CH-D	D21	LD	CP	CAPULIN, ETC., NM	BLANK0000053995	152.6
No	K210H-D	D21	LD	LIC	DATIL/HORSE SPRINGS, NM	BLANK0000087870	359.6
No	K46KV-D	D21	LD	CP	FARMINGTON, NM	BLANK0000052018	241.3
No	K21IM-D	D21	LD	LIC	FORT SUMNER, NM	BLDTT20090303AAY	239.1
No	KRWB-TV	D21	DT	LIC	ROSWELL, NM	BLCDT20090619ABH	384.9
No	K38FP-D	D21	LD	CP	TUCUMCARI, NM	BLANK0000053142	217.5
No	K42CF-D	D21	LD	CP	GRUVER, TX	BLANK0000053124	373.0
No	K21KC-D	D21	LD	LIC	BLUFF, ETC, UT	BLDTT20140520AIH	369.7
No	K21IX-D	D21	LD	LIC	MONTEZUMA CRK/ANETH, UT	BLDTT20091222AMD	346.8
No	KXRM-TV	D22	DT	LIC	COLORADO SPRINGS, CO	BLCDT20030702ABE	267.8
Yes	KLUZ-TV	D22	DT	LIC	ALBUQUERQUE, NM	BLCDT20090618ACG	152.7
No	K22GE	N22-	TX	LIC	DULCE, NM	BLTT20020326ABE	142.9
No	K22GE	D22	LD	CP	DULCE, NM	BDFTDTT20090824ADF	142.9
No	K22MS-D	D22	LD	LIC	EAGLES NEST, NM	BLANK0000063652	36.0
No	K22EW-D	D22	LD	LIC	MORA, NM	BLANK0000078960	51.5
No	K22EW-D	N22	TX	LIC	MORA, NM	BLTT19970724JD	51.5
No	KSPK-LD	N28-	TX	LIC	WALSENBURG, CO	BLTTL20050315AGL	151.0
No	K28ER	N28+	TX	LIC	DULCE & LUMBERTON, NM	BLTT19970421JC	142.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D21  
 Mask: Stringent  
 Latitude: 36 23 51.80 N (NAD83)  
 Longitude: 105 32 37.60 W  
 Height AMSL: 2289.0 m  
 HAAT: -185.9 m  
 Peak ERP: 1.00 kW  
 Antenna: AND-AL8 (ID 16352) 290.0 deg  
 Elev Pattn: Generic

49.5 dBu contour:  

Azimuth	ERP	HAAT	Distance
0.0 deg	0.608 kW	-77.7 m	16.1 km
45.0	0.412	-484.0	14.6
90.0	0.482	-548.4	15.3
135.0	0.471	-517.8	15.2
180.0	0.415	-261.9	14.7
225.0	0.647	74.4	25.4
270.0	0.958	203.4	37.6
315.0	0.933	124.3	32.6

Distance to Canadian border: 1400.7 km

Distance to Mexican border: 520.8 km

Conditions at FCC monitoring station: Douglas AZ  
Bearing: 216.0 degrees Distance: 663.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 3.4 degrees Distance: 414.3 km

No land mobile station failures found

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%

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Interference to BLCDT20090618ACG LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KLUZ-TV	D22	DT	LIC	ALBUQUERQUE, NM	BLCDT20090618ACG	
Undesireds:	K21FD-D	D21	LD	LIC	TAOS, ETC., NM	K21FD 1 KW	152.7 km
	KYNM-CD	D21	DC	LIC	ALBUQUERQUE, NM	BLANK0000001606	33.2
Service area	25492.9	1,079,755	Terrain-limited	20061.9	1,016,799	IX-free, before	19340.9
						IX-free, after	1,013,382
							Percent New IX
							0.03 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K21FD-D D21 LD LIC			7.1	0		6.1	0
KYNM-CD D21 DC LIC			721.0	3,417	721.0	720.0	3,417

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K21FD-D	D21	LD	LIC	TAOS, ETC., NM	K21FD 1 KW	
Undesireds:	K21JK-D	D21	LD	CP	MONTEROSE, CO	BLANK00000058503	317.3 km
	KYNM-CD	D21	DC	LIC	ALBUQUERQUE, NM	BLANK0000001606	154.8
	K22EW-D	D22	LD	LIC	MORA, NM	BLANK00000078960	51.5
Service area	1683.9	25,094	Terrain-limited	1515.8	24,509	IX-free	24,448
						Percent IX	7.51 0.25
Undesired			Total IX	Unique IX	Prcnt Unique IX		
KYNM-CD D21 DC LIC			113.8	61	113.8	61	7.51 0.25