

# TVSTUDY ANALYSIS FOR PROPOSED KTLO-LD, COLORADO SPRINGS, COLORADO (CHANNEL 29)

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: ktlo29ag, Model: Longley-Rice

Study build station data: LMS TV 2021-07-22

Proposal: KTLO29AG D29 LD APP COLORADO SPRINGS, CO  
File number: ktlo29ag  
Facility ID: 64981  
Station data: User record  
Record ID: 3983  
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K28HI-D	D28	LD	LIC	BRECKENRIDGE/DILLON, CO	BLANK0000068743	138.7 km
No	K28KC-D	D28	LD	LIC	CANON CITY, CO	BLDTL20090708AAT	52.7
No	K28KU-D	D28	LD	LIC	CRESTED BUTTE, CO	BLDTL20121119AOU	184.9
Yes	KTFD-TV	D28	DT	LIC	DENVER, CO	BLANK0000066076	106.1
No	K28PZ-D	D28	LD	LIC	PARLIN, CO	BLANK0000068626	163.7
No	KSPK-LD	D28	LD	LIC	WALSENBURG, CO	BLANK0000058258	133.5
Yes	K28GE	D28+	LD	LIC	WOODLAND PARK, CO	BLANK0000040556	26.5
No	K28GE	N28+	TX	LIC	WOODLAND PARK, CO	BLTTL19991203AAV	26.6
No	K29NF-D	D29	LD	LIC	ANTON, CO	BLANK0000117518	171.8
No	K29ME-D	D29	LD	LIC	Antonito, CO	BLANK0000150631	242.1
No	K29CK-D	D29	LD	LIC	CARBONDALE, CO	BLDTT20091221AAU	228.5
No	K29GO-D	D29	LD	LIC	CORTEZ, ETC, CO	BLDTT20090522ABU	331.9
No	K43AH-D	D29	LD	LIC	CRESTED BUTTE, CO	BLANK0000068627	184.9
No	K29IT-D	D29	LD	LIC	GATEVIEW, CO	BLDTT20120106ABN	217.8
No	K29LA-D	D29	LD	CP	GATEWAY, CO	BNPDTL20100510AGB	316.5
No	K29GI-D	D29	LD	LIC	HOLYOKE, CO	BLDTT20110613AAQ	282.7
No	K29HD-D	D29	LD	LIC	IDALIA, CO	BLDTT20081219AFG	226.2
No	K29HM-D	D29	LD	LIC	LAKE GEORGE, CO	BLDTT20101001ACF	63.3
No	K29JL-D	D29	LD	LIC	LAS ANIMAS, CO	BLDTT20110509ACV	184.6
Yes	KDEN-TV	D29	DT	LIC	LONGMONT, CO	BLCDT20100317AAM	141.4
No	K29IU-D	D29	LD	LIC	PARLIN, CO	BLDTT20100713APD	163.7
No	K29JU-D	D29	LD	CP	GARDEN CITY, KS	BNPDTL20100108ADI	363.8
No	KSTF	D29	DT	CP	SCOTTSBLUFF, NE	BLANK0000036040	365.9
No	KSTF	D29	DT	LIC	SCOTTSBLUFF, NE	BLANK0000001046	365.9
No	K50DY-D	D29	LD	CP	CAPULIN, ETC., NM	BLANK0000053999	250.7
No	KWBQ	D29	DT	LIC	SANTA FE, NM	BLANK0000145522	426.5
No	K30NL-D	D30	LD	CP	ARRIBA, CO	BNPDTL20100514AFE	142.9
Yes	K30JM-D	D30	LD	LIC	COLORADO SPRINGS, CO	BLDTL20100430ACU	9.4
No	K30EJ-D	D30	LD	LIC	CRESTED BUTTE, CO	BLDTT20100301AAH	179.2
No	KZCO-LD	D30	LD	LIC	DENVER, CO	BLANK0000072463	105.8
No	KLPD-LD	D30	LD	CP	DENVER, CO	BLANK0000098095	129.8
No	KLPD-LD	D30	LD	LIC	DENVER, CO	BLANK0000107263	105.8
No	K41DU-D	D30	LD	LIC	PARLIN, CO	BLANK0000068628	163.7
No	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	252.9

Non-directional AM stations within 0.8 km:  
KRDO 1240 L ND2 D COLORADO SPRINGS, CO BL20010212ABO  
KRDO 1240 L ND2 N COLORADO SPRINGS, CO BL20010212ABO

**KTLO-LD transmitting antenna to be mounted on  
the AM antenna tower for KRDO (1240 kHz).**

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D29  
Mask: Full Service  
Latitude: 38 49 43.00 N (NAD83)  
Longitude: 104 50 22.00 W  
Height AMSL: 1911.7 m  
HAAT: -245.0 m  
Peak ERP: 14.0 kW  
Antenna: SCA-4DR-16-2HW (ID 20732) 90.0 deg  
Elev Pattn: Generic

50.2 dBu contour:  
Azimuth ERP HAAT Distance

# TVSTUDY ANALYSIS FOR PROPOSED KTLO-LD, COLORADO SPRINGS, COLORADO (CHANNEL 29)

0.0 deg	7.06 kW	-31.5 m	26.7 km
45.0	12.3	-61.4	29.2
90.0	14.0	42.0	33.2
135.0	12.9	150.2	46.9
180.0	7.16	-48.7	26.7
225.0	0.006	-753.1	4.9
270.0	0.006	-828.4	4.9
315.0	0.006	-428.7	4.9

Distance to Canadian border: 1130.5 km

Distance to Mexican border: 797.8 km

Conditions at FCC monitoring station: Grand Island NE  
Bearing: 64.9 degrees Distance: 594.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 346.6 degrees Distance: 151.4 km  
ERP: 3.54 kW Field strength: -7.5 dBu, 0.0 mV/m

Study cell size: 0.50 km (Higher resolution cell size requested.)  
Profile point spacing: 0.05 km (Higher resolution terrain profile point spacing requested.)

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

-----  
Interference to BLANK0000066076 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTFD-TV	D28	DT	LIC	DENVER, CO	BLANK0000066076	
Undesireds:	KTLO29AG	D29	LD	APP	COLORADO SPRINGS, CO	ktlo29ag	106.1 km
	KVSN-DT	D27	DT	LIC	PUEBLO, CO	BLANK0000074846	114.4
	KLWY	D27	DT	LIC	CHEYENNE, WY	BLCDT20090227AAD	149.3
	KDEN-TV	D29	DT	LIC	LONGMONT, CO	BLCDT20100317AAM	49.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
19846.5		3,210,761		18376.3		3,116,890	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KTLO29AG D29 LD APP		5.7		3,128		0.0	0
KVSN-DT D27 DT LIC		57.9		11,765		52.2	8,637
KLWY D27 DT LIC		0.7		0		0.2	0
KDEN-TV D29 DT LIC		480.0		52,917		479.5	52,917

-----  
Interference to BLANK0000040556 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K28GE	D28+	LD	LIC	WOODLAND PARK, CO	BLANK0000040556	
Undesireds:	KTLO29AG	D29	LD	APP	COLORADO SPRINGS, CO	ktlo29ag	26.5 km
	KAVC-LD	D27	LD	LIC	Denver, CO	BLANK0000122035	124.6
	KTFD-TV	D28	DT	LIC	DENVER, CO	BLANK0000066076	84.2
	K28ER-D	D28+	LD	LIC	DULCE & LUMBERTON, NM	BLANK0000152595	278.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
1236.0		83,194		1143.2		56,187	0.02 0.18
Undesired		Total IX		Unique IX, before		Unique IX, after	
KTLO29AG D29 LD APP		0.2		102		0.2	102
KTFD-TV D28 DT LIC		3.0		0		3.0	0

-----  
Interference to BLCDT20100317AAM LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
------	------	-----	--------	-------------	-------------	----------

# TVSTUDY ANALYSIS FOR PROPOSED KTLO-LD, COLORADO SPRINGS, COLORADO (CHANNEL 29)

Desired:	KDEN-TV	D29	DT	LIC	LONGMONT, CO	BLCDT20100317AAM		
Undesireds:	KTLO29AG	D29	LD	APP	COLORADO SPRINGS, CO	ktlo29ag	141.4 km	
	KTFD-TV	D28	DT	LIC	DENVER, CO	BLANK0000066076	49.8	
	KSTF	D29	DT	CP	SCOTTSBLUFF, NE	BLANK0000036040	234.8	
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	111.6	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
24382.8	3,376,599	23397.7	3,353,776	23225.4	3,336,216	23225.2	3,336,216	0.00 0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
KTLO29AG D29 LD APP	0.2	0			0.2	0
KTFD-TV D28 DT LIC	108.7	17,177	108.7	17,177	108.7	17,177
KSTF D29 DT CP	14.9	183	12.7	183	12.7	183
KGWN-TV D30 DT LIC	50.9	200	48.7	200	48.7	200

## Interference to BLDLTL20100430ACU LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	K30JM-D	D30	LD	LIC	COLORADO SPRINGS, CO	BLDTL20100430ACU			
Undesireds:	KTLO29AG	D29	LD	APP	COLORADO SPRINGS, CO	ktlo29ag	9.4 km		
	K30NL-D	D30	LD	CP	ARRIBA, CO	BNPDTL20100514AFE	148.4		
	KZCO-LD	D30	LD	LIC	DENVER, CO	BLANK0000072463	114.0		
	KLPD-LD	D30	LD	CP	DENVER, CO	BLANK0000098095	138.3		
	KGWN-TV	D30	DT	LIC	CHEYENNE, WY	BLCDT20070327AEQ	262.0		
	KTVD	D31	DT	LIC	DENVER, CO	BLANK0000080552	114.0		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
7643.6	765,535	7139.9	757,632	6998.6	756,490	6988.3	741,492	0.15	1.98

Undesired	Total IX		Unique IX, before		Unique IX, after	
KTLO29AG D29 LD APP	10.2	14,998			10.2	14,998
K30NL-D D30 LD CP	0.7	0	0.0	0	0.0	0
KZCO-LD D30 LD LIC	121.9	1,032	38.8	527	38.8	527
KGWN-TV D30 DT LIC	99.6	597	18.1	110	18.1	110
KTVD D31 DT LIC	33.3	86	0.5	0	0.5	0

## Interference to proposal scenario 1 8.02% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTLO29AG	D29	LD	APP	COLORADO SPRINGS, CO	ktlo29ag	
Undesireds:	K28GE	D28+	LD	LIC	WOODLAND PARK, CO	BLANK0000040556	26.5 km
	KDEN-TV	D29	DT	LIC	LONGMONT, CO	BLCDT20100317AAM	141.4
	K30JM-D	D30	LD	LIC	COLORADO SPRINGS, CO	BLDTL20100430ACU	9.4
Service area		Terrain-limited		IX-free		Percent IX	
2249.8	572,495	2030.4	569,564	1476.1	523,889	27.30	8.02

Undesired	Total IX		Unique IX		Prct Unique IX	
KDEN-TV D29 DT LIC	36.0	248	4.2	76	0.21	0.01
K30JM-D D30 LD LIC	550.1	45,599	518.3	45,427	25.53	7.98