

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Denver14dDir75FP, Model: Longley-Rice
Start: 2018.05.17 14:07:55

Study created: 2018.05.17 14:07:54

Study build station data: LMS TV 2018-05-14

Proposal: K27MA-D D14 LD APP DENVER, CO
Facility ID: 22834
Station data: User record
Record ID: 719
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
Yes	K14NM-D	D14	LD	LIC	ANTON & SW WASH CTY, CO	BLDTT20120110AEN	162.0 km
No	KJCS-LD	D14	LD	APP	COLORADO SPRINGS, CO	BLANK0000052111	93.8
No	K14JS-D	D14	LD	LIC	CORTEZ, ETC, CO	BLDTT20090522ACM	356.4
Yes	KZDE-LD	D14	LD	LIC	FORT COLLINS, CO	BLANK0000001484	110.5
No	K38JX-D	D14	LD	APP	GRAND JUNCTION, CO	BLANK0000052006	271.8
Yes	K14LB-D	D14	LD	LIC	IDALIA, CO	BLDTT20110613AAF	233.8
No	K14NF-D	D14	LD	CP	JACKS CABIN, CO	BPDTT20150123AHC	169.5
No	K14NF-D	D14	LD	LIC	JACKS CABIN, CO	BLDTT20091125AFI	169.5
Yes	K14JZ-D	D14	LD	LIC	PEETZ, CO	BLDTT20070606AAY	221.0
No	K14KL-D	D14	LD	LIC	PLEASANT VALLEY, CO	BLDTT20110613AAR	282.1
No	K14OV-D	D14	LD	LIC	SNOWMASS VILLAGE, CO	BLDTT20120607ADM	152.0
No	K14PW-D	D14	LD	CP	EDSON, KS	BNPDTL20100514AGD	327.5
No	KAOE-LD	D14	LD	CP	SANTA FE, NM	BNPDTL20091014AAS	396.8
No	KGWC-TV	D14	DT	LIC	CASPER, WY	BLCDT20090225AAL	362.1
No	KWYM-LP	N14z	TX	LIC	LARAMIE, WY	BLTTL20040826AAP	188.7
No	K14OR-D	D14	LD	CP	WHEATLAND, WY	BNPDTL20100510AEK	305.6
No	NEW	D15	LD	APP	ASPEN, CO	BNPDTL20090825BXB	145.7
No	K15IF-D	D15	LD	LIC	BASALT, CO	BLDTT20100308AAF	163.9

No	KCEC	D15	DT	LIC	BOULDER, CO	BLCDT20110812AAS	8.0
No	KETD	D15	DT	CP	CASTLE ROCK, CO	BLANK0000028552	8.0
No	KETD	D15	DT	APP	CASTLE ROCK, CO	BLANK0000034726	8.0
No	K15ED-D	D15	LD	LIC	WAUNITA HOT SPRINGS, CO	BLDTT20140218AGA	160.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D14
Mask: Full Service
Latitude: 39 35 59.60 N (NAD83)
Longitude: 105 12 36.80 W
Height AMSL: 2742.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: SCA-CL-1469 (ID 20778) 75.0 deg
Elev Pattnr: Generic
Elec Tilt: 1.00

48.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.002 kW	773.9 m	18.1 km
45.0	5.80	1017.6	73.0
90.0	11.6	1023.2	78.6
135.0	0.002	924.9	19.5
180.0	0.002	376.1	12.9
225.0	0.002	215.9	10.0
270.0	0.002	346.2	12.4
315.0	0.002	519.0	15.5

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 650 m

Distance to Canadian border: 1044.7 km

Distance to Mexican border: 876.8 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 73.5 degrees Distance: 593.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 356.3 degrees Distance: 57.7 km

ERP: 0.002 kW Field strength: 42.3 dBu, 0.1 mV/m

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%

Interference to BLDTT20120110AEN LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K14NM-D	D14	LD	LIC	ANTON & SW WASH CTY, CO	BLDTT20120110AEN	
Undesireds:	K27MA-D	D14	LD	APP	DENVER, CO		162.0 km
	KJCS-LD	D14	LD	APP	COLORADO SPRINGS, CO	BLANK0000052111	185.9
	K14NF-D	D14	LD	CP	JACKS CABIN, CO	BPDDTT20150123AHC	324.0
	Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	2834.3	899		2834.3	899	2823.3	899
							0.32 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K27MA-D	D14	LD	APP	10.0	0	9.0	0
KJCS-LD	D14	LD	APP	2.0	0	1.0	0

Interference to BLANK0000001484 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance				
Desired:	KZDE-LD	D14	LD	LIC	FORT COLLINS, CO	BLANK0000001484					
Undesireds:	K27MA-D	D14	LD	APP	DENVER, CO		110.5 km				
	K14NF-D	D14	LD	CP	JACKS CABIN, CO	BPDTT20150123AHC	258.6				
	KETD	D15	DT	CP	CASTLE ROCK, CO	BLANK00000028552	102.8				
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX			
979.1 261,930		936.1 260,792		936.1 260,792		919.1 256,424		1.82 1.67			
Undesired				Total IX	Unique IX, before	Unique IX, after					
K27MA-D D14 LD APP				17.0 4,368		17.0 4,368					

Interference to BLANK0000001484 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance				
Desired:	KZDE-LD	D14	LD	LIC	FORT COLLINS, CO	BLANK0000001484					
Undesireds:	K27MA-D	D14	LD	APP	DENVER, CO		110.5 km				
	K14NF-D	D14	LD	CP	JACKS CABIN, CO	BPDTT20150123AHC	258.6				
	KETD	D15	DT	APP	CASTLE ROCK, CO	BLANK00000034726	102.8				
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX			
979.1 261,930		936.1 260,792		921.1 260,573		913.1 256,362		0.87 1.62			
Undesired				Total IX	Unique IX, before	Unique IX, after					
K27MA-D D14 LD APP				17.0 4,368		8.0 4,211					
KETD D15 DT APP				15.0 219	15.0 219	6.0 62					

Interference to BLDTT20110613AAF LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K14LB-D	D14	LD	LIC	IDALIA, CO	BLDTT20110613AAF	

Undesireds:	K27MA-D	D14	LD	APP	DENVER, CO				233.8 km
	Service area			Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	2376.8	1,164		2368.8	1,164	2368.8	1,164	2367.8	0.04 0.00
Undesired				Total IX		Unique IX, before		Unique IX, after	
K27MA-D D14 LD APP			1.0	0				1.0 0	

Interference to BLDTT20070606AAY LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance	
Desired:	K14JZ-D	D14	LD	LIC	PEETZ, CO	BLDTT20070606AAY		
Undesireds:	K27MA-D	D14	LD	APP	DENVER, CO		221.0 km	
	Service area			Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	2062.9	11,166		2054.9	11,161	2054.9	11,161	2052.0 0.14 0.00
Undesired				Total IX		Unique IX, before	Unique IX, after	
K27MA-D D14 LD APP			3.0	0			3.0 0	

Interference to proposal scenario 1
**MX: 6.66% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K27MA-D	D14	LD	APP	DENVER, CO		
Undesireds:	K14NM-D	D14	LD	LIC	ANTON & SW WASH CTY, CO	BLDTT20120110AEN	162.0 km
	KJCS-LD	D14	LD	APP	COLORADO SPRINGS, CO	BLANK0000052111	93.8
	KZDE-LD	D14	LD	LIC	FORT COLLINS, CO	BLANK0000001484	110.5
	K14NF-D	D14	LD	CP	JACKS CABIN, CO	BPDTT20150123AHC	169.5
	KETD	D15	DT	CP	CASTLE ROCK, CO	BLANK0000028552	8.0
	Service area			Terrain-limited		IX-free	Percent IX
	5248.7	2,352,128		5176.0	2,331,922	4775.4 2,176,569	7.74 6.66

Undesired		Total IX		Unique IX	Prct Unique IX
K14NM-D D14 LD LIC	1.0	167	1.0	167	0.02 0.01
KJCS-LD D14 LD APP	60.5	1,897	52.4	1,021	1.01 0.04
KZDE-LD D14 LD LIC	109.5	10,700	31.7	2,079	0.61 0.09
KETD D15 DT CP	315.5	152,086	232.8	143,022	4.50 6.13

Interference to proposal scenario 2
**MX: 12.53% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K27MA-D	D14	LD	APP	DENVER, CO		
Undesireds:	K14NM-D	D14	LD	LIC	ANTON & SW WASH CTY, CO	BLD TT20120110AEN	162.0 km
	KJCS-LD	D14	LD	APP	COLORADO SPRINGS, CO	BLANK00000052111	93.8
	KZDE-LD	D14	LD	LIC	FORT COLLINS, CO	BLANK00000001484	110.5
	K14NF-D	D14	LD	CP	JACKS CABIN, CO	BPD TT20150123AHC	169.5
	KETD	D15	DT	APP	CASTLE ROCK, CO	BLANK00000034726	8.0

Service area	Terrain-limited	IX-free	Percent IX
5248.7 2,352,128	5176.0 2,331,922	4548.8 2,039,750	12.12 12.53

Undesired		Total IX		Unique IX	Prct Unique IX
K14NM-D D14 LD LIC	1.0	167	1.0	167	0.02 0.01
KJCS-LD D14 LD APP	60.5	1,897	49.5	865	0.96 0.04
KZDE-LD D14 LD LIC	109.5	10,700	21.8	1,637	0.42 0.07
KETD D15 DT APP	555.0	289,503	459.4	279,841	8.88 12.00