

# INTERFERENCE ANALYSIS FOR PROPOSED K45KB-D, LAKE GEORGE, CO, CHANNEL 18, DISPLACEMENT FACILITY

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: k45kb18p02, Model: Longley-Rice

Study build station data: LMS TV 2018-04-22

Proposal: K45KB18P02 D18 LD APP LAKE GEORGE, CO  
File number: k45kb18p02  
Facility ID: 168353  
Station data: User record  
Record ID: 2660  
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	K17KX-D	D17	LD	LIC	ANTON, CO	BLDTT20120110AEM	176.8 km
No	NEW	D17	LD	APP	ASPEN, CO	BNPDTL20090825BXC	154.7
No	K17JA-D	D17	LD	LIC	BASALT, CO	BLDTT20091221ABJ	179.1
Yes	K43CG	D17z	LD	APP	COLORADO SPRINGS, CO	BLANK0000052161	32.3
No	KZCO-LD	D17	LD	LIC	DENVER, CO	BLDTL20110706ABH	83.9
No	KPJR-TV	D17	DT	CP	GREELEY, CO	BLANK0000026606	124.6
No	K18LN-D	D18	LD	CP	ASPEN, CO	BNPDTL20090825BXC	154.7
No	K18DR-D	D18	LD	LIC	CORTEZ, ETC, CO	BLDTT20090522ACJ	323.7
Yes	KPXC-TV	D18	DT	CP	DENVER, CO	BLANK0000027023	124.2
Yes	KRMA-TV	D18	DT	LIC	DENVER, CO	BLEDT20100312ABH	77.2
No	K18LL-D	D18	LD	LIC	EADS, ETC., CO	BLANK0000001779	193.2
No	KRMJ	D18	DT	LIC	GRAND JUNCTION, CO	BLEDT20100430ADO	317.6
No	K18JX-D	D18	LD	LIC	HOEHNE, CO	BLDTT20110613ACX	212.1
No	K18FO-D	D18	LD	LIC	IDALIA, CO	BLDTT20110120ABQ	237.2
No	K18IQ-D	D18	LD	CP	JACKS CABIN, CO	BPDTT20150123AHE	153.7
No	K18IQ-D	D18	LD	LIC	JACKS CABIN, CO	BLDTT20091125AFJ	153.7
No	K18KH-D	D18	LD	LIC	JULESBURG, CO	BLDTT20120430AAK	313.3
No	K18FN-D	D18	LD	LIC	PEETZ, CO	BLDTT20110928AKM	263.5
No	K18GM-D	D18	LD	LIC	PLEASANT VALLEY, CO	BLDTT20110613AAT	304.0
No	K18GD-D	D18	LD	LIC	REDSTONE, CO	BLDTT20091221ABB	187.4
No	K48AX-D	D18	LD	APP	EAGLE NEST, NM	BLANK0000030778	269.9
No	KCEI-LD	D18	LD	CP	TAOS, NM	BLANK0000029184	289.9
No	KCEI-LD	D18	LD	LIC	TAOS, NM	BLDTL20140310AAY	292.4
No	K18JD-D	D18	LD	LIC	TORRINGTON, WY	BLDTT20110415ABJ	351.3
No	K19FH-D	D19	LD	LIC	ASPEN, CO	BLDTT20121119AGZ	154.7
No	K19DY	D19	LD	CP	CANON CITY, CO	BDFCDTT20100111AEX	63.1
No	K19DY	N19	TX	LIC	CANON CITY, CO	BLTT20001027AAF	63.1
No	KSBS-CD	D19	DC	CP	DENVER, CO	BLANK0000034533	83.8
Yes	KTVD	D19	DT	LIC	DENVER, CO	BLCDT20090218ABY	83.9
No	K39ED-D	D19	LD	APP	ROCKY FORD, CO	BLANK0000052167	155.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18

Mask: Stringent

Latitude: 38 59 11.90 N (NAD83)

Longitude: 105 4 9.90 W

Height AMSL: 2766.0 m

HAAT: 0.0 m

Peak ERP: 0.500 kW

Antenna: SCA-4DR-8-3HC (ID 20752) 140.0 deg

Elev Pattern: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.106 kW	232.5 m	28.1 km
45.0	0.435	44.3	18.5
90.0	0.500	83.9	25.7
135.0	0.407	349.9	40.2
180.0	0.496	-456.4	15.4

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225.0	0.452	-54.7	15.3
270.0	0.175	13.9	12.0
315.0	0.016	123.0	13.3

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 42 m

Distance to Canadian border: 1112.9 km

Distance to Mexican border: 811.4 km

Conditions at FCC monitoring station: Grand Island NE  
Bearing: 67.1 degrees    Distance: 605.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 354.2 degrees    Distance: 130.3 km  
ERP: 0.075 kW    Field strength: -1.1 dBu, 0.0 mV/m

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 BLANK0000052161 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K43CG	D17z	LD	APP	COLORADO SPRINGS, CO	BLANK0000052161	
Undesireds:	K45KB18P02D18	D18	LD	APP	LAKE GEORGE, CO	k45kb18p02	32.3 km
	KHDT-LD	D16	LD	LIC	DENVER, CO	BLDTL20111128FOX	114.0
	K16KA-D	D16	LD	LIC	PUEBLO, CO	BLANK0000005043	89.8
	K17KX-D	D17	LD	LIC	ANTON, CO	BLDTT20120110AEM	179.6
	KZCO-LD	D17	LD	LIC	DENVER, CO	BLDTL20110706ABH	114.1
	K17MI-D	D17	LD	LIC	EADS, ETC., CO	BLANK0000001778	168.4
	KPJR-TV	D17	DT	CP	GREELEY, CO	BLANK0000026606	150.6
	K17IG-D	D17	LD	LIC	HOEHNE, CO	BLDTT20090720AAJ	181.1
	KLBY	D17	DT	LIC	COLBY, KS	BLCDT20081215ABD	308.3
	KWYM-LP	D17z	LD	CP	LARAMIE, WY	BLANK0000001722	262.0
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	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX		
11336.0	814,252	10326.8	796,155	10019.3	786,940	10013.4	786,492    0.06    0.06

Undesired	Total IX	Unique IX, before	Unique IX, after
K45KB18P02 D18 LD APP	15.9	1,490	6.0    448
KHDT-LD D16 LD LIC	48.7	178	0.0    0
K16KA-D D16 LD LIC	20.1	4	19.1    4
K17KX-D D17 LD LIC	7.0	0	1.0    0
KZCO-LD D17 LD LIC	172.9	6,562	36.8    4,250    34.8    3,211
K17MI-D D17 LD LIC	5.0	28	1.0    28
KPJR-TV D17 DT CP	227.7	4,775	83.6    2,463    79.6    2,460
K17IG-D D17 LD LIC	9.0	0	6.0    0
KLBY D17 DT LIC	8.9	158	7.0    158
KWYM-LP D17z LD CP	37.8	75	1.0    0

## ----- Interference to BLANK0000027023 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KPXC-TV	D18	DT	CP	DENVER, CO	BLANK0000027023	
Undesireds:	K45KB18P02D18	D18	LD	APP	LAKE GEORGE, CO	k45kb18p02	124.2 km
	KPJR-TV	D17	DT	CP	GREELEY, CO	BLANK0000026606	0.4

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KSBS-CD	D19	DC	CP	DENVER, CO	BLANK0000034533	49.8		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
23786.0	3,362,672	22654.3	3,335,781	22392.6	3,313,115	22390.6	3,313,115	0.01 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after		
K45KB18P02	D18 LD APP	5.0	107			2.0	0	
KPJR-TV	D17 DT CP	195.3	10,323	190.3	8,744	188.3	8,640	
KSBS-CD	D19 DC CP	71.4	13,922	66.4	12,343	66.4	12,343	

## Interference to BLEDT20100312ABH LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KRMA-TV	D18	DT	LIC	DENVER, CO	BLEDT20100312ABH	
Undesireds:	K45KB18P02	D18	LD	APP	LAKE GEORGE, CO	k45kb18p02	77.2 km
	KRMJ	D18	DT	LIC	GRAND JUNCTION, CO	BLEDT20100430ADO	310.4
	KTVD	D19	DT	LIC	DENVER, CO	BLCDT20090218ABY	6.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
31755.9	3,771,115	28927.6	3,614,614	28677.9	3,600,764	28444.1	3,594,144	0.82 0.18
Undesired		Total IX		Unique IX, before		Unique IX, after		
K45KB18P02	D18 LD APP	239.8	6,620			233.8	6,620	
KRMJ	D18 DT LIC	1.0	0	1.0	0	1.0	0	
KTVD	D19 DT LIC	248.7	13,850	248.7	13,850	242.7	13,850	

## Interference to BLCDT20090218ABY LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVD	D19	DT	LIC	DENVER, CO	BLCDT20090218ABY	
Undesireds:	K45KB18P02	D18	LD	APP	LAKE GEORGE, CO	k45kb18p02	83.9 km
	KRMA-TV	D18	DT	LIC	DENVER, CO	BLEDT20100312ABH	6.7
	KWKS	D19	DT	LIC	COLBY, KS	BLEDT20070601ATA	336.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
31993.9	3,849,393	28250.8	3,583,533	27839.6	3,571,318	27725.1	3,563,894	0.41 0.21
Undesired		Total IX		Unique IX, before		Unique IX, after		
K45KB18P02	D18 LD APP	114.5	7,424			114.5	7,424	
KRMA-TV	D18 DT LIC	195.8	8,131	194.8	8,131	194.8	8,131	
KWKS	D19 DT LIC	216.5	4,084	215.5	4,084	215.5	4,084	

## Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K45KB18P02	D18	LD	APP	LAKE GEORGE, CO	k45kb18p02	
Undesireds:	KPXC-TV	D18	DT	CP	DENVER, CO	BLANK0000027023	124.2 km
	K18LL-D	D18	LD	LIC	EADS, ETC., CO	BLANK0000001779	193.2
	K18IQ-D	D18	LD	CP	JACKS CABIN, CO	BPDTT20150123AHE	153.7
	KCEI-LD	D18	LD	CP	TAOS, NM	BLANK00000029184	289.9
	K19DY	D19	LD	CP	CANON CITY, CO	BDFCDTT20100111AEX	63.1

Service area		Terrain-limited		IX-free		Percent IX	
1259.9	199,967	1007.7	106,831	972.8	106,048	3.46	0.73
Undesired		Total IX		Unique IX		Prctn Unique IX	
KPXC-TV	D18 DT CP	33.9	783	33.9	783	3.36	0.73
K18LL-D	D18 LD LIC	1.0	0	1.0	0	0.10	0.00